

ANITA BORG INSTITUTE

GRACE HOPPER

CELEBRATION OF WOMEN IN COMPUTING

PRESENTED IN PARTNERSHIP WITH THE ASSOCIATION FOR COMPUTING MACHINERY

October 8–10, 2014

Phoenix, AZ

www.gracehopper.org



Welcome from the Anita Borg Institute and the Association for Computing Machinery	1
Welcome from the 2013 General Co-Chairs, Tiffani Williams and Wei Lin	2
Conference Leadership	3 - 6
General Conference Information	7
Conference Center Maps	8 - 11
Wednesday Program Schedule	12
Wednesday Highlights Plus Speakers & Honorees.	13 – 15
Wednesday Open Source Day	16
Wednesday Session Detail	17 - 20
Poster Session.	21 - 25
Thursday Program Schedule	26
Thursday Highlights Plus Speakers & Honorees	27 - 30
Thursday Session Detail.	31 - 41
Friday Program Schedule	42
Friday Highlights Plus Speakers & Honorees.	43 - 45
Friday Session Detail	46 - 55
Corporate and Academic Sponsors, Government Patrons, Media and Non-Profit Sponsors	124 - 132
Additional Conference Sponsorships.	133 - 134
About the Anita Borg Institute	135 - 136

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- Earn points, badges, and prizes by checking in, and commenting. Expand your professional network, climb the leaderboard, and have fun.

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Also our hashtags for the event are:

#ghc14
#technicalwomen and
#gamechanger

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Computer technology is everywhere. It

is in our hands and on our wrists. It is in our homes, cars and everywhere in between. Computer technology is being designed, built and run all over the world—from Silicon Valley and New York to the United Arab Emirates.

At the Anita Borg Institute we envision a future where the people who imagine and build technology mirror the people and societies who use it. Why include everyone? It's simple: innovation.

It's proven that diverse teams deliver increased innovation, better problem solving and group performance, and improved operational and financial performance. Want to see proof? Check out our report, The Case for Investing in Women.

It is fitting, then, that our theme for the twentieth anniversary of the Grace Hopper Celebration of Women in Computing is "Everywhere. Everyone." This conference is a celebration of the many contributions women are making to technology, and the opportunities technology offers us to make the world a better place.

Telle Whitney

Co-Founder, Grace Hopper Celebration
President and CEO, Anita Borg Institute



Computing professionals like you are

driving innovations and transforming technology across continents. As a proud partner of the Grace Hopper Celebration of Women in Computing, ACM believes women like you are uniquely empowered to join and build computing communities and make the world a better place.

This celebration offers you opportunities to interact with inspiring women who have made their mark in computing. Keynoter Shafi Goldwasser is a co-recipient of the ACM A.M. Turing Award, widely considered the "Nobel Prize in Computing," for advances in modern cryptography. Conversation leader Maria Klawe, President of Harvey Mudd College, is a former president of ACM as well as an innovator in computer science education for women. Security expert and speaker Lorrie Faith Cranor of Carnegie Mellon University is an active member of ACM's Public Policy Council.

You'll encounter many other accomplished women technologists from all over the globe in panel discussions, technical presentations, meetups, and workshops. I hope you'll get to meet many of them during this conference.

This year's theme "Everywhere. Everyone." captures the universal nature of computing in the digital age. We welcome those who have traveled near and far to join this celebration and to share, learn, and inspire each other.

Alexander Wolf

ACM President
Professor, Department of Computing
Imperial College London



Welcome to the 2014 Grace Hopper Celebration of Women in Computing Conference (GHC). GHC honors the work of the exceptionally talented women in technology who have enlightened and broadened the field of computing and have conquered isolation and adversity to triumph in their respective disciplines. Furthermore, the GHC community has served as mentors and advocates so that our paths can be more easily charted, our efforts more fruitful, and our lives more engaged. The first GHC took place in 1994 with 500 attendees gathered in Washington, D.C. Twenty years later, 8,000 women and men are gathering in Phoenix to create yet another attendance record. GHC 2014 is not only a celebration of women in computing. It is also a celebration of the conference's monumental twenty-year history.



The Anita Borg Institute's vision is "a future where the people who imagine and build technology mirror the people and societies they build it for." Therefore, the theme this year is "Everywhere. Everyone." Computer technology is everywhere in our lives. Everyone is involved somehow in computer technology design, development and deployment. Everyone can connect everywhere.

Following the tradition of continuously improving the conference program and listening to comments from past attendees, this year's program has been carefully designed for everyone: students, industry (early, mid, senior, exec), and academics. As in previous years, Invited Technical Speakers, panels, workshops, presentations, Birds of a Feather, and the PhD Forum are aligned with a given track. We have maintained the popular topics and tracks, and added new topics/tracks that are tailored for a variety of audiences while ensuring ample opportunities for interactions and networking.

There are new things to look for at the conference as well. For the first time, we have a male keynote speaker and a male allies plenary panel to share the center stage. Grace Hopper Open Source Day, the Organizational Change track, and the Mini Film Festival add new dimensions to the conference as well. For the hottest trends in fashion, join us on the catwalk for the first Wearable Technology Fashion Show at GHC 2014!

Of course, a conference of this magnitude requires the effort of a dedicated team to make it a success. We gratefully acknowledge the 2014 GHC committee chairs and reviewers, Anita Borg Institute Advisory Board and Board of Trustee members, the dedicated volunteers and the Anita Borg Institute staff for their dedication over the past year in bringing this year's conference to fruition.

Wei Lin and Tiffani Williams

General Co-Chairs, 2014 Grace Hopper Celebration of Women in Computing



Wei Lin
Senior Director, Mobile Endpoint Protection Engineering team

Wei Lin has led various engineering groups within Symantec including the Security Technology Group and the Norton brand consumer product groups. She has played a key role in the success of both consumer and enterprise security products. Before entering into the computer and network security field, Lin led software development in computer 3D graphics and reconstruction applied to aerospace and biomedical research. She holds a BS degree from Fudan University, and a PhD in Medical Imaging from University of Paris.



Tiffani L. Williams
Associate Professor, Department of Computer Science and Engineering at Texas A&M University

Tiffani L. Williams is Associate Professor in the Department of Computer Science and Engineering at Texas A&M University. She earned her BS (1994) and PhD (2000) in computer science from Marquette University and the University of Central Florida, respectively. Afterward, she was a postdoctorate at the University of New Mexico. She has received several fellowships, which include a McKnight Doctoral Fellowship, an Alfred P. Sloan Foundation Postdoctoral Fellowship, and a Radcliffe Institute Fellowship. She received the Denice Denton Emerging Leader Award in 2011 and became a PopTech Science Fellow in 2012. Her research interests are bioinformatics and high-performance computing.

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Radha Nandkumar, Independent Research Consultant
Sabina Nawaz, Nawaz Consulting LLC, CEO, Nawaz Consulting LLC
Elisa Camahort Page, Co-Founder and COO, BlogHer
Claudia Pearce, NSA
Mary Ramsey, Campus Relations Manager, Lockheed Martin
Nancy Ramsey, Author, The Futures of Women: Scenarios for the 21st Century
Ann Redelfs, Redelfs LLC
Kathy Richardson, Consultant
Ruth A. Stergiou, CEO, Invent Your Future Enterprises
Audrey Van Belleghem, Director - Office of the CTO, NetApp
Sheila Van Groningen, Vice President Airborne ISR Cyber Intelligence Division, Northrop Grumman Information Systems
Frances Allen, IBM Fellow Emerita, IBM

Career Fair Booths

Location: Halls 1-6 (Lower Level, North Building)

Wednesday: 4:30 p.m. – 10:00 p.m.

Thursday: 10:00 a.m. – 5:30 p.m.

Friday: 10:00 a.m. – 2:30 p.m.

Childcare and Nursing Mothers Room

Sponsored by NetApp

GHC Childcare is located at the Hyatt Regency Phoenix, 122 N. 2nd St., across the street from Phoenix Convention Center

0-3 years (Room 322)

4-13 years (Room 316-318)

Child Care Meal Room (Room 320)

Nursing Mothers (Room 324). Second Nursing Mothers room is 223 (North Building)

Childcare and Nursing Mothers Room available free of charge to all conference attendees.

Advance registration is required for Childcare.

Wednesday: 7:00 a.m. – 10:30 p.m.

Thursday: 7:00 a.m. – 12:30 a.m. (Friday)

Friday: 7:00 a.m. – 11:30 p.m.

Coat Check

Location: Lower Level Pre-Function Lobby (in front of Hall 5, North Building)

A coat check is provided for the convenience of conference attendees. Items cost \$2/day to check and must be collected by closing time each day. We are not liable for any loss or damage.

Wednesday: 6:30 a.m. – 10:30 p.m.

Thursday: 6:30 a.m. – 12:30 a.m.

Friday: 6:30 a.m. – 11:30 p.m.

Conference Information

2 Locations in North Building: Lower Level Pre-Function Lobby and North Main Lobby (100 Level)

1 Location in West Building: Atrium Lobby (100 Level)

Cyber Center

2 Locations: Halls 1-6 and Lower Level Pre-Function Lobby (North Building)

Computers are available for use by conference attendees at no cost.

Wednesday: 4:30 p.m. - 10:00 p.m.

Thursday: 10:00 a.m. - 5:30 p.m.

Friday: 10:00 a.m. - 2:30 p.m.

First Aid Room

Location: 131 C (North Building)

Interview Booths

Location: Halls 1-6 (Lower Level, North Building)

Wednesday: 4:30 p.m. – 10:00 p.m.

Thursday: 10:00 a.m. – 5:30 p.m.

Friday: 10:00 a.m. – 2:30 p.m.

Registration

Location: Lower Level Pre-Function Lobby (North Building)

Tuesday: 4:00 p.m. – 8:00 p.m.

Wednesday: 7:00 a.m. – 7:30 p.m.

Thursday: 7:00 a.m. – 7:30 p.m.

Friday: 7:00 a.m. – 3:00 p.m.

Speaker Ready Room

Location: 128 A-B (North Building)

IMPORTANT: A representative from each session must check in at the Speaker Ready Room, no less than four hours before their presentation.

Wednesday: 7:00 a.m. – 4:30 p.m.

Thursday: 7:00 a.m. – 6:30 p.m.

Friday: 7:00 a.m. – 6:30 p.m.

Complimentary Shuttle Service

Sponsored by American Express

Drop-Off Location: 3rd Street – Main Entrance (North Building)

GHC provides complimentary shuttle service from selected hotels to Phoenix Convention Center. Please check the GHC website for complete and up to date shuttle information

Wednesday: 6:30 a.m. – 10:30 p.m.

Thursday: 6:30 a.m. – 12:30 a.m. (Friday)

Friday: 6:30 a.m. – 11:30 p.m.

Wireless Internet

Sponsored by Juniper Networks

Location: All Phoenix Convention Center Spaces

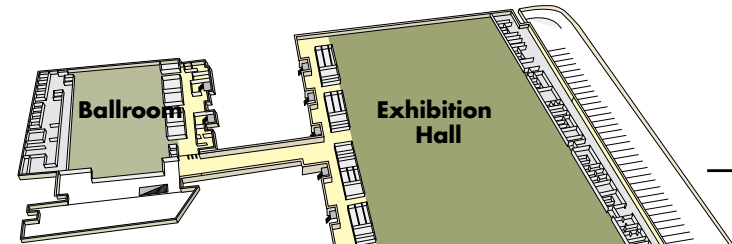
Free wireless internet is available for all attendees throughout the conference. SSID: GHC-Juniper

Phoenix Convention Center

Overview

WEST BUILDING

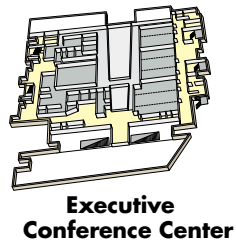
NORTH BUILDING



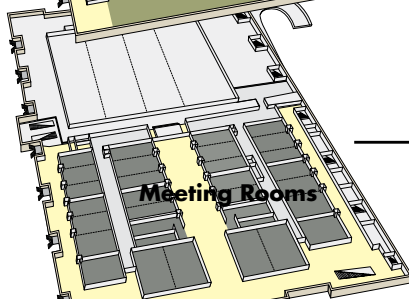
300 LEVEL

WEST BUILDING

NORTH BUILDING



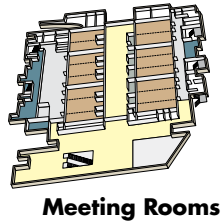
Executive
Conference Center



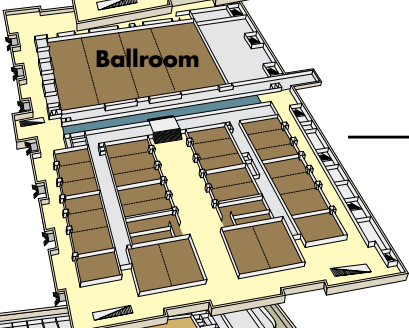
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WEST BUILDING

NORTH BUILDING



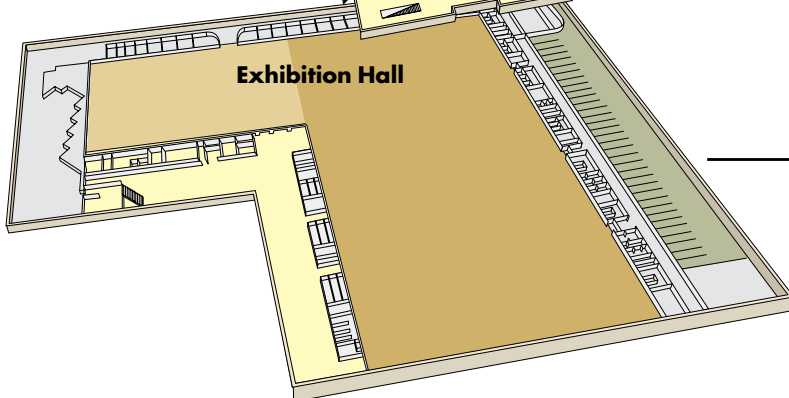
Meeting Rooms



100 LEVEL

WEST BUILDING

NORTH BUILDING

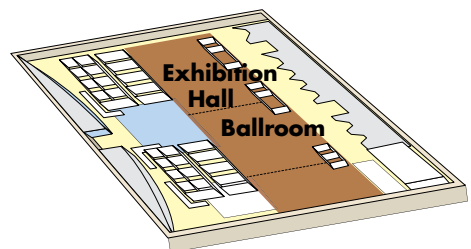


LOWER LEVEL

WEST BUILDING

NORTH BUILDING

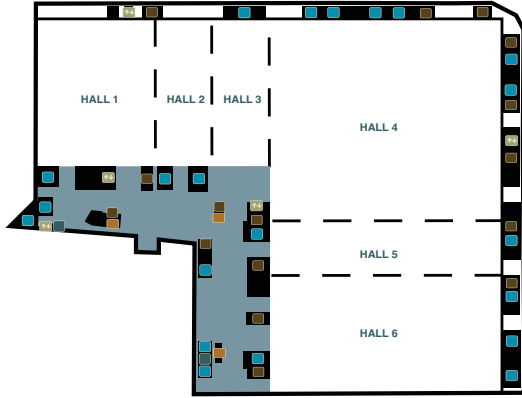
100 LEVEL
SOUTH BUILDING



Phoenix Convention Center

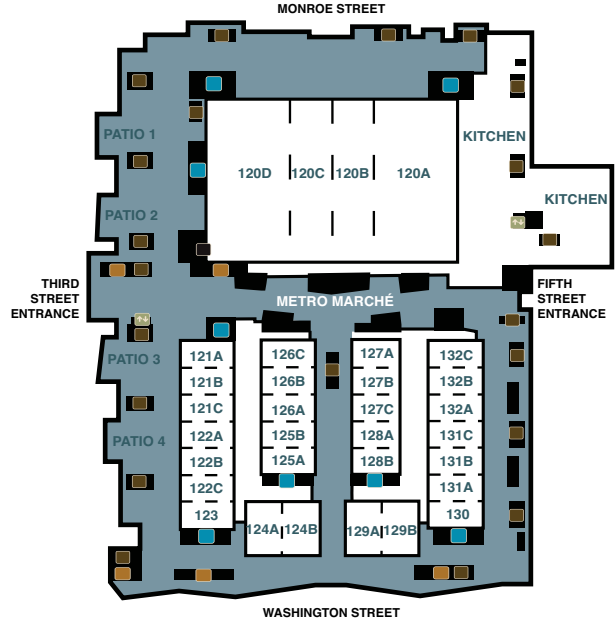
North Building

EXHIBIT HALLS – LOWER LEVEL



■ Elevator
 ■ Escalator
 ■ Restrooms
 ■ Stairs

100 LEVEL / STREET LEVEL



200 LEVEL

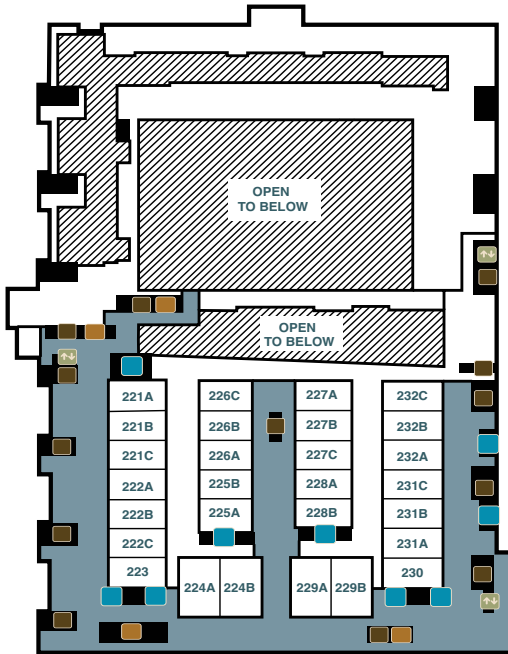
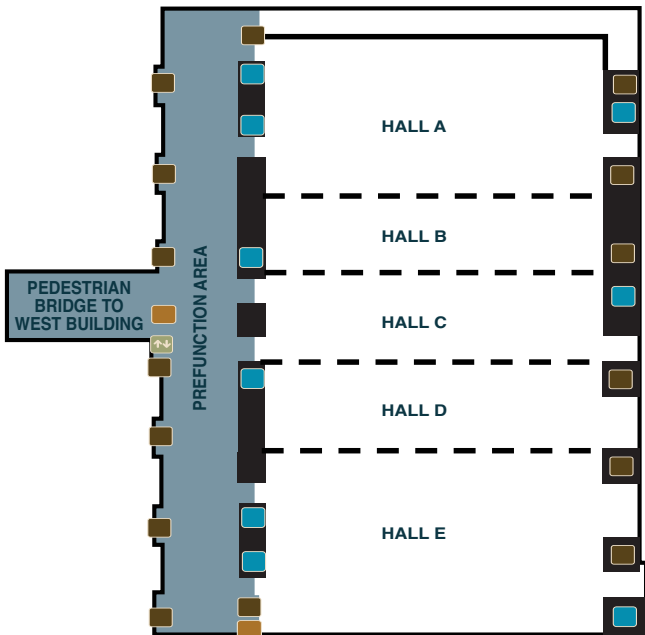


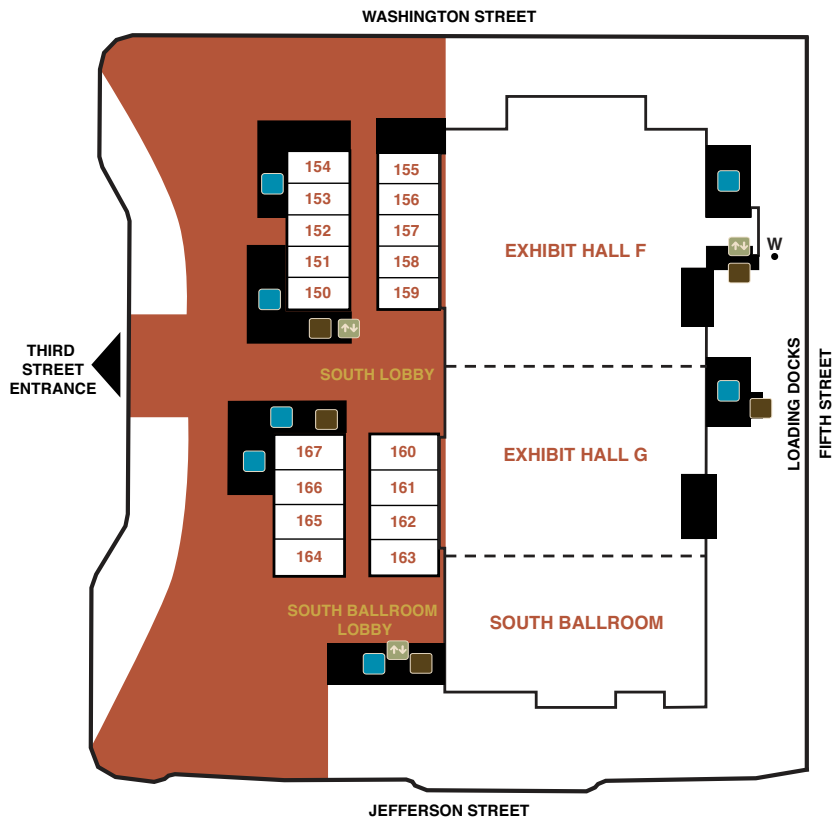
EXHIBIT HALLS – 300 LEVEL



Phoenix Convention Center

South Building

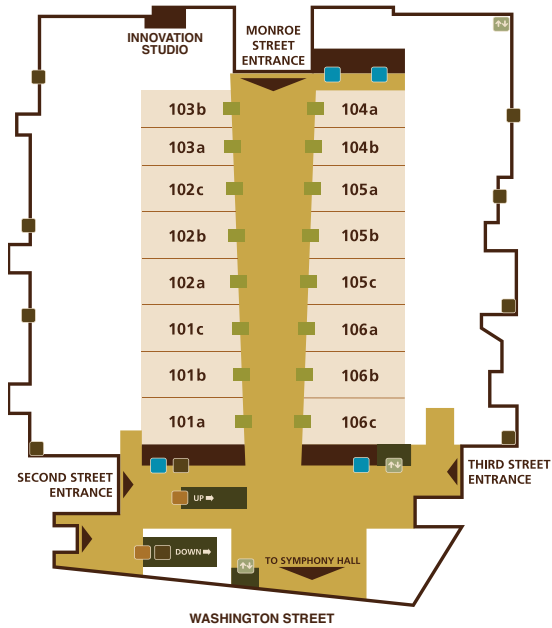
MAIN LEVEL - LOCATED SOUTH OF WASHINGTON ST.



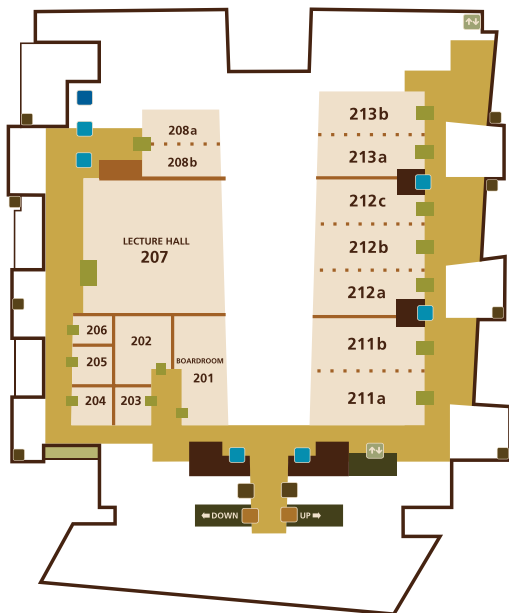
Phoenix Convention Center

West Building

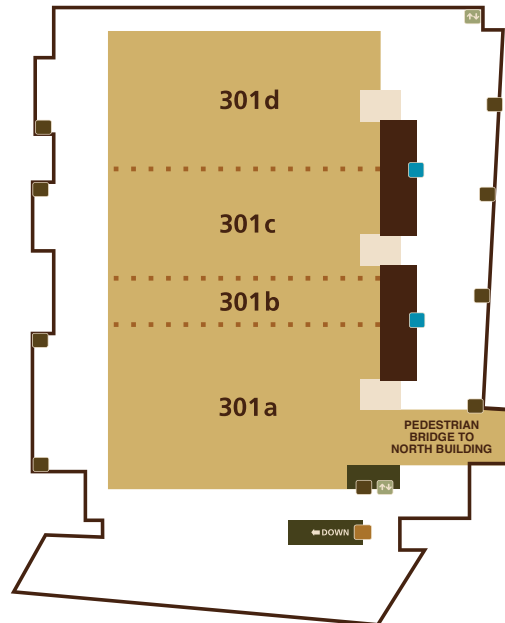
100 LEVEL / STREET LEVEL



200 LEVEL AND EXECUTIVE CONFERENCE CENTER



300 LEVEL



PROGRAM SCHEDULE - WEDNESDAY, OCTOBER 8, 2014

7:00 a.m.	Registration Opens (7:00 a.m. - 7:30 p.m.) (Lower Level Pre-function Lobby, North Building) Exhibitor Check-in (9:00 a.m. - 4:30 p.m.) (Lower Level Pre-function Lobby, North Building)	8:30 a.m.	Hoppers Orientation Meeting (7:30 - 8:00 a.m.) (North 122 A-C)										
9:00 a.m.	*For the Newcomers session (8:30 - 9:00 a.m.) (North Halls A-D)												
9:30 a.m.	Break (9:00 - 9:30 a.m.)												
9:30 a.m.	Opening Welcome and ABIE Awards Presentation (Change Agents, Social Impact ABIE Award Winners) Keynote - Shafi Goldwasser (North Halls A-D)												
11:00 a.m.													
11:15 a.m.	Lunch Available for Purchase at the Convention Center (see GHC website for food options location)												
12:15 p.m.	Scholarship Recipients Lunch (West 301D)												
12:30 p.m.	CAREER (INDUSTRY) New Mgrs Challenges BoF (Mid) West 301 C	CAREER (INDUSTRY) Executive Presence Workshop (Senior) North 120 A	CAREER Technology Roles in Consumer Facing Companies (All) North Halls A-D	CRA-W (Graduate) Grad School Survival Skills Presentations (Graduate) North 122 A-C	CRA-W (Early Faculty) Finding Your Dream Job Presentations (Early Faculty) North 124 A-B	CRA-W (Mid-Faculty) Successful Leadership Presentations (Mid Faculty) North 129 A-B	OSD 101 OpenHatch (All) South 164-166	OSD 101 GitHub (All) South Ballroom	OSD 101 Chromium - Chrome Web browser (All) South 150-154	OSD Code-a-thon INSTEEDD, Microsoft Disaster Response, OpenStack, Sahana Software Foundation, Systems-Peace Corps, Ushahidi, Women's Peer Peer RSVP required (South 161-163)	Leadership Workshop - 1 Winning at the Game of Office Politics Jo Miller (Early-Mid) North 120 B-C	Leadership Workshop - 2 Communicating for Impact & Influence Denise Brosseau (Early-Mid) North 120 D	Icebreaker Icebreaker Activities Session 1 (Check Addendum)
2:00 p.m.	Leadership for Impact Workshop (Mid) West 301 C	Moving to VP & the C-Suite Panel (Senior) North Halls A-D	Global Women Leaders Panel (International) North 120 A	Your Prof'l Persona Presentation (Graduate) North 122 A-C	Start & Manage Research Presentation (Early Faculty) North 124 A-B	Managing Up Presentation (Mid Faculty) North 129 A-B	FreeBSD (All) South 164-166	GitHub (REPEAT) (All) South Ballroom	Chromium (REPEAT) (All) South 150-154	Break (2:15 - 2:45 p.m.)	Winning at the Game of Office Politics Jo Miller (REPEAT) (Early-Mid) North 120 B-C	Communicating for Impact & Influence Denise Brosseau (REPEAT) (Early-Mid) North 120 D	Icebreaker Activities Session 2 (Check addendum)
3:00 p.m.	Perfect Team: Networking Matters BoF (Mid) West 301 C	Get on Board of Tech Co. Presentation (Senior) North Halls A-D	Global Women Leaders Panel (International) North 120 A	Build Your Prof'l Network Presentations (Graduate) North 122 A-C	Preparing for Promotion Presentation (Early Faculty) North 124 A-B	Senior Career Mentoring Topic Tables (Mid Faculty) North 129 A-B	Linux (All) South 164-166	GitHub (REPEAT) (All) South Ballroom	Chromium (REPEAT) (All) South 150-154	Break (3:00 - 3:30 p.m.)	Winning at the Game of Office Politics Jo Miller (REPEAT) (Early-Mid) North 120 B-C	Communicating for Impact & Influence Denise Brosseau (REPEAT) (Early-Mid) North 120 D	Icebreaker Activities Session 2 (Check addendum)
4:30 p.m.	Career Fair Launch (Snacks provided) (4:30 - 6:30 p.m.) (North Halls 1-6)												
6:30 p.m.	ABI Advisory Board Meeting (4:30 - 6:00 p.m.) (North 225 A)												
7:30 p.m.	Male Allies Plenary Panel (6:30 - 7:30 p.m.) (North Halls A-D)												
8:30 p.m.	Career Fair Booth Sponsor Interview Hours (Boxed Dinner will be served) (North Halls 1-6)	General Poster Session and ACM Student Research Competition (Boxed Dinner will be served) (North Halls 1-6)									Meetups & Receptions (7:30 - 8:30 p.m.) Latinas In Computing Reception (North 224 B) Black Women in Computing Reception (North 224 A) Arab Women in Computing Reception (North 221 A) LGBT Meetup (TBD)		
10:00 p.m.													

Everywhere. Everyone.



This year's conference theme is about the global prevalence of computer technology and the participation of one and all in its design, development and deployment. But it all starts with you - literally. GHC kicks off with a day focused on building the career of your dreams.

GET INSPIRED

First, some inspiration from the GHC Social Impact and Change Agent ABIE award winners, followed by a keynote from Shafi Goldwasser, co-recipient of the 2012 ACM Turing Award and RSA Professor of Electrical Engineering and Computer Science at MIT.

Participate in an open dialogue on how to achieve organizational change with our esteemed panel of male allies at 6:30 p.m.

GAIN EXPERTISE

Catch the Leadership Workshops led by Jo Miller, CEO of Women's Leadership Coaching, and Denise Brosseau, CEO of Thought Leadership Lab, at either 12:30-2:00 p.m. or 2:45-4:30 p.m. Whether you are just starting out or have been at it a while, you'll get great tips and insights to build your leadership skills.

Are you a mid-career or senior woman in industry? There are special tracks designed just for you on the challenges, opportunities and skills needed to break through the glass ceiling.

For graduate students, early professional and mid-career academics, our partner, CRA-W, offers career presentations to help you survive and thrive.

For students interested in pursuing advanced degrees or careers in computing, the Grace Hopper Student Opportunity Lab (SOL) is where you can explore all the exciting possibilities in an interactive setting.

Free and Open Source Software (FOSS) is quickly spreading and becoming a requirement for employment opportunities. The Grace Hopper Open Source Day is designed for participants to contribute at the Code-a-Thon for Humanity. New to FOSS? Our OSD 101 sessions are just the ticket.

GHC hosts one of the largest poster sessions at 7:30 p.m. Learn about the innovative technology being designed by the future generation—some presenters are also competing in the distinguished ACM Student Research Competition.

GET CONNECTED

Don't miss the Career Fair Launch at 4:30 p.m. This is a great forum to discover and apply for positions at all levels in industry and academia. It could be the start, or next step, in a great career.

There are plenty of organized and casual opportunities for you to connect with like-minded individuals. The Icebreaker Activities session and lunchtime are perfect for getting to know each other.

And, be sure to join the Give 2 Cents Take 2 Cents program—leave a heartfelt piece of advice for your conference mates, and at the end of GHC, remember to take a piece of advice in return!



Keynote at 9:30 a.m.

Shafi Goldwasser

RSA Professor of Electrical Engineering and Computer Science at MIT

Shafi Goldwasser is the RSA Professor of Electrical Engineering and Computer Science at MIT. She is also a professor of computer science and applied mathematics at the Weizmann Institute of Science in Israel. Goldwasser received a BS degree in applied mathematics from Carnegie Mellon University in 1979, and MS and PhD degrees in computer science from the University of California, Berkeley, in 1984.

Goldwasser was the recipient of the Gödel Prize in 1993 and another in 2001 for her work on interactive proofs and connections to approximation. She was awarded the ACM Grace Murray Hopper award, the RSA award in mathematics, the ACM Athena award for women in computer science, the Benjamin Franklin Medal in Computer and Cognitive Science, the IEEE Emanuel R. Piore award, and the ACM Turing Award for 2012. She is a member of the AAAS, NAS and NAE.



Awards Presentation

Ruthe Farmer

2014 Winner of the Grace Hopper Celebration Social Impact ABIE Award

Ruthe Farmer has focused her efforts on increasing girls' participation in technology and engineering since 2001. She is Chief Strategy & Growth Officer at the National Center for Women & IT (NCWIT) and directs the NCWIT K-12 Alliance. Ruthe is the driving force behind the hugely successful Aspirations in Computing talent development initiative, served as the 2012 Chair of Computer Science Education Week, and was named a Champion of Change for Technology Inclusion by the White House in July 2013.

Over the past six years Ruthe has grown the Aspirations in Computing program from serving just 32 young women, to a national talent pipeline program serving thousands of girls and young women (and educators) from middle school through college and beyond. Using social media and web technology to stay in touch with a large dispersed group, Aspirations in Computing has become a unique vibrant community and professional network for technical young women.

Ruthe has a history of scaling up innovative STEM projects, and frequently speaks on the topic of girls and women in technology. She holds a BA in Communications & German from Lewis & Clark College and an MBA in Social Entrepreneurship from the University of Oxford Said Business School and is passionate about integrating innovative entrepreneurial strategies into her work.

Sponsored by





Barbara Birungi

2014 Winner of the Grace Hopper Celebration Change Agent ABIE Award

Barbara Birungi founded WITU (Women in Technology Uganda) in 2010. WITU encourages, inspires, and trains women in tech through networking, training, mentoring and partnering to increase the participation of women in tech and improve the livelihoods of women in Uganda. Its “CODE GIRLS” program introduces technology and career guidance to school drop outs, high school and university girls. WITU has taught over 500 young girls and has helped more than 100 women find tech jobs.

Barbara is also the executive director of Hive Colab in Uganda, a business accelerator and incubator for East African startups. Their mission is to create a collaborative environment that promotes experimentation of scalable ideas with positive social and economic returns. Barbara has led this technology hub since its inception in 2010. Prior to this, she also worked for Appfrica International, an innovative global consultancy specializing in market research studies, custom technology solutions, and investment in emerging markets.

Barbara graduated with honors in a Bachelors degree in Business Computing from Makerere University and received a postgraduate degree in Project Planning and Management. As a student at Makerere she volunteered at an orphanage, teaching basic ICT skills and career guidance to high school students, many of whom are now tech professionals. She is an enthusiast of ICT4D, innovation, and women and girls in Uganda, and has mentored and taught more than 300 young girls.



Durdana Habib

2014 Winner of the Grace Hopper Celebration Change Agent ABIE Award

In 1983, Durdana Habib became the first Pakistani woman to receive a B.Sc. in Electrical Engineering from the University of Engineering & Technology, Lahore. Her first job in industry, at Carrier Telephone Industries, began after a four month struggle with a management team reluctant to hire a woman into an all-male company. Today, Durdana is the Chair of Women in Engineering at IEEE and mentors several student branches of IEEE. On top of participating in technical conferences, she has mentored female students, helped them find internships and organized industry forums.

During her career in industry, Durdana started a Yahoo group of women engineers, whose participation at ICWES12 enabled them to join the International Network of Women Engineers & Scientists (INWES). Durdana served two terms as Board Director of INWES (2005-2011) and participated in many ICWES conferences. She filed the petition for WIE Affinity Group, IEEE, Islamabad Section and led as Chair (2008-2010).

In 2000 Durdana joined Communications Enabling Technologies where she led software development on System-On-Chip (SOCs) designs. Her team of many motivated female engineers developed one of world's highest density media processor SOC designs and filed several US patents. Prior to this, she worked at Pakistan Ordnance Factories (POFs), where she received an honorarium and commendation certificate for her performance on defense-related projects.

Durdana recently completed her Ph.D in Electrical Engineering at the National University of Computer & Emerging Sciences after working with the Center for Advanced Research in Engineering for five years. Previously, Durdana received her M.S. in Computer Engineering from the National University of Sciences and Technology in 1998.

Grace Hopper Open Source Day – Build Your FOSS Skills

WEDNESDAY, OCTOBER 8 | 12:30 – 6:30 P.M.

FOLLOW US ON TWITTER: #ghc14 #opensource

Sponsored by   



Free and Open Source Software (FOSS) adoption and usage is becoming widespread and is increasingly a requirement for many employment opportunities. It can be daunting to know how to contribute to an existing FOSS project or release your individual software tool or application under an open source license. In addition to the Code-A-Thon which is returning from past years, we are excited to announce the debut of 101 Sessions, intended as introductions for those who have little to no background in open-source topics.

101 Sessions

(Open to all — first-come, first-served)

Life of a Chromium Developer

12:30 -1:30, 2:00-3:00, 3:30-4:30 p.m. – Room S150-154

Presenter: Rachel Weinstein Petterson, Google Chrome

Chromium is an open-source project whose goal is to help move the web forward and it is the code behind Google's Chrome web browser. In this presentation, I'll cover setting up and building the Chromium browser on one's personal computer, submitting bugs and making contributions by fixing those bugs. I'll also discuss common errors, the easiest ways to troubleshoot those problems and where to find help.

The Basics of Contributing to Open Source with GitHub

12:30-1:30, 2:00-3:00, 3:30-4:30 p.m.

Room South Ballroom

Presenter: John Britton, GitHub

The world of open source is growing, would benefit greatly from your contributions, and offers a great place to practice and refine your programming skills. The majority of the worlds' open source software is hosted on GitHub, and this class will get you started with the skills you need to navigate and participate this version control tool and collaboration platform.

How to Contribute to Open Source

12:30-1:30 p.m. – Room S164-166

Presented by: Shauna Gordon-McKeon, OpenHatch

Curious about open source software but unsure where to begin? In this workshop, you'll learn the basics of how open source software projects communicate and collaborate, from IRC to issue trackers to the version control system git and popular host Github. By the end of the workshop, you'll have taken your first steps towards contributing to open source.

Introduction to the FreeBSD Project

2:00-3:00 p.m. – Room S164-166

Presented by: Dru Lavigne, FreeBSD

This presentation provides an overview of the FreeBSD Project, how one can get involved in the Project, and some of the benefits of participation in a mature, open source project with academic roots. The FreeBSD Project was founded in June, 1994 and continues to innovate in the fields of filesystems, networking, and security.

Linux Kernel Hacking 101

3:30-4:30 p.m. – Room S164-166

Presented by: Kelley Nielsen, Linux Foundation

This presentation will describe the basic skills needed to begin contributing to the Linux kernel. A wide range of skills, including

system setup, C programming, Git source code control, patch generation, communication through official mailing lists and IRC, and the community collaboration process will be touched on. Attendees will come away with a road map for becoming active Linux contributors and participants. New programmers are encouraged to attend.

Code-a-thon for Humanity

(Prior RSVP required)

12:30-6:30 p.m. – Room S161-163

Code-a-Thon projects are sponsored by a variety of humanitarian aid organizations.

InSTEDD

The InSTEDD project will use mBuilder, a free and open-source tool to build accessible, scalable SMS applications.

Microsoft Disaster Response

Microsoft Disaster Response and Humanitarian Toolbox works with technical volunteers to build sustainable open source solutions for communities and disaster response organizations.

OpenStack

This hands-on workshop will give an overview of the cloud, OpenStack (the open source IaaS for the cloud), and its use to deploy humanitarian applications.

Sahana Software Foundation

Sahana Eden is a flexible open source humanitarian platform for disaster information management.

Systems-Peace Corps Partnership

Systems, an Anita Borg Institute community, has teamed up with Peace Corps to create vital products for their volunteers and internal processes.

Ushahidi

CrisisNET is an Ushahidi initiative to build a platform for the world's crisis data.

The Women's Peer-to-Peer Network

The Women's Peer-to-Peer Network is a platform and community that creates technology for the 700 million women who are off the communications grid.

12:30 – 1:30 p.m.

From the CIO's Office – Technology Roles in Consumer Facing Companies Panel

Track: Career

For: All

Location: North Halls A-D

Moderator: Carol Gustaveson (Anita Borg Institute)

Panelists: Susan Guelli (Nationwide Insurance), Julie Elberfeld (CapitalOne)

Do you wonder what it's like to have a technical career in an insurance company, financial services firm, or a consumer goods company? Come hear these four accomplished CIOs of major companies discuss the roles of women technologists in their organizations. Discover the differences in working for consumer-facing companies versus pure technology firms. Find out what the future holds for women in computing at these well-known companies, straight from the CIO.

New Managers - What's Your Challenge? BoF

Track: Career

For: Mid Career Industry

Location: West 301 B-C

Presenter: Emily J. Leathers (Brigade)

The transition from individual contributor to manager or leader involves many new skills and responsibilities. Join us for small group discussions of the challenges facing you right now in your first two years as a manager or team lead. You will leave with ideas for how to approach some of your challenges and new contacts you can continue to confer, consult, and celebrate with after the conference.

Executive Presence: Making the Leap Workshop

Track: Career

For: Senior Career Industry

Location: North 120 A

Facilitator: Pat Kirkland (Skills to Success, Inc.)

Women are working harder and harder to prove their worth and readiness to join the Senior Leadership Team. For women moving from tactical to strategic leadership roles, working harder makes women look like "good soldiers" rather than officer material! In this interactive coaching session, discover the blind spots that block progress and practice the behaviors that establish executive maturity, to demonstrate readiness to move to the next level.

CRA-W: Graduate School Survival Skills Presentation

Track: CRA-W

For: Graduate Students

Location: North 122 A-C

Presenters: Jamika Burge (Information Systems Worldwide, i_SW), Rachel Pottinger (University of British Columbia)

This session will address strategies for surviving and, in fact, thriving in graduate school and developing the necessary knowledge, experience and skills for a successful career. Topics covered will include setting realistic goals and expectations, advisor and mentor selection, tracking and maintaining your

research and academic process, and the differences between getting a M.S. and PhD degree. Speakers will also discuss strategies for maintaining balance and a positive perspective in your life during graduate school, decision-making strategies when career and family priorities seem to collide, and how to handle uncomfortable situations that may arise. Note that late stage graduate students may wish to attend the "Finding Your Dream Job" session in the Early Career traffic.

CRA-W: Finding Your Dream Job Presentations

Track: CRA-W

For: Early Career Faculty

Location: North 124 A-B

Presenters: Jaeyeon Jung (Microsoft Research), Lana Yarosh (University of Minnesota)

Curious about the range of post-PhD career options including academia and industry? Looking for some practical advice on how to apply for jobs, interview, and negotiate a job offer? This session is aimed at late stage graduate students and post-docs. Early Career speakers who have completed successful job searches and are now working in a range of jobs will talk about their experiences and answer your questions.

CRA-W: Successful Leadership Workshop

Track: CRA-W

For: Mid-Senior Faculty

Location: North 129 A-B

Facilitators: Deb Agarwal (Lawrence Berkeley National Laboratory), Nancy Amato (Texas A&M University), Tracy Camp (Colorado School of Mines), Kathryn McKinley (Microsoft), Lori Pollock (University of Delaware), Susan Rodger (Duke University)

Leadership is a critical part of success in academia and research labs. In an interactive format, this session will focus on leadership development for those with the rank of associate professor and higher (or equivalent at research labs). Topics covered will include tips for being a successful leader, lessons learned from leadership failures, challenges women in particular face in being successful leaders, ways of influencing department culture even if you are one of few senior women in the organization, and how to find a mentor to help you develop as a leader.

12:30 – 4:30 p.m.

Grace Hopper Student Opportunity Lab

Track: Student Opportunity Lab

For: All Students

Location: North Hall E

Are you: Searching for a job in industry, academia or government? Looking for an internship or research opportunity? Thinking about continuing your studies? Exploring career options? If you answered yes to any of these questions, the interactive Student Opportunity Lab (SOL) might be just the session for you. We will have around 30 mentors and speakers each holding brief sessions at their own tables. Navigate your own path to the tables featuring topics that interest you most.

12:30 – 2:15 p.m.

Icebreaker Activities Workshop

Track: Icebreaker

For: All

Location: Multiple (Check the Addendum)

Get to know your fellow attendees at this fun icebreaker activity session.

12:30 – 2:15 p.m. and 2:45 – 4:30 p.m.

Winning at the Game of Office Politics Workshop

Track: Leadership Workshop

For: Early-Mid Career Industry

Location: North 120 B-C

Facilitator: Jo Miller

Winning at the Game of Office Politics In every workplace there are smart, talented women going about their work, hoping to attract recognition. While they wait, their colleagues are getting ahead by politicking and schmoozing. Is it possible to navigate office politics without becoming a political animal? Topics include: Developing positive political savvy, How to understand the dynamics of power in your organization, the shadow organization map and Identifying the unwritten, unspoken 'rules of the game'.

Communicating for Impact and Influence Workshop

Track: Leadership Workshop

For: Early-Mid Career Industry

Location: North 120 D

Facilitator: Denise Brosseau

To get ahead in today's workplace; women must develop their skills as highly effective communicators. Whether you need to craft winning emails, answer that oft-asked question 'what do you do?' or present your ideas to higher-ups, how you present your ideas (and yourself) can mean the difference between creating a reputation as an influential leader or being overlooked or easily sidelined. In this workshop, Denise Brosseau, will share some actionable strategies for Preparing, Presenting & Prevailing as Influential Communicators. She will also share the templates and strategies of some of the world's best communicators – including top-rated TED presenters, platform speakers and best-selling authors.

2:00 – 3:00 p.m.

Moving from Director to VP and the C-Suite Panel

Track: Career

For: Senior Career Industry

Location: North Halls A-D

Moderator: Sheila Rohra (NetApp)

Panelists: Jennifer Chayes (Microsoft Research), Olga Lagunova (Pitney Bowes), Raji Arasu (StubHub, eBay Inc), Rani Borkar (Intel)

As women make up half of the US Workforce and only 25% of the technology workforce the numbers at the VP and C-Suite level continue to not reach critical mass. The panel discussion

will provide insights into their journey from Director to VP and C-Suite level roles. They will share personal experiences and candid insights on what it took to earn their seat at the executive table.

Leadership Strategies for High Impact Women Workshop

Track: Career

For: Mid Career Industry

Location: West 301 B-C

Facilitator: JJ DiGeronimo (Advancing Women in STEM)

Successful women take specific actions to advance their careers. This interactive workshop outlines surprising, yet easy actions to accelerate your professional journey by leveraging your network, selecting the right areas of focus and implementing your natural energizers to achieve advancement with more balance and joy. (Abstracts from JJ's Book: The Working Woman's GPS, When the Plan to Have It All Has Led You Astray)

Anita Borg's Vision: A Global Community of Women Leaders Panel

Track: Career

For: All

Location: North 120 A

Moderator: Jody Mahoney (Anita Borg Institute)

Panelists: Sana Odeh (New York University), Judith Owigar (Akirachix), Sheila Campbell (United States Peace Corps), Andrea Villanes (North Carolina State University)

"...You can't do it all by yourself. So seek out other women in places like this. Seek out like-minded souls to talk to when you're in the middle of a struggle. And mentor others." - Anita Borg.

Please join a panel discussion followed by audience Q&A to explore building a program for women technology leaders in communities throughout the world. Some of the questions we may consider are: What is the best way to identify global women technology leaders? How can we effectively use Grace Hopper US and Grace Hopper India as a global gathering and content exchange platform? What support do these leaders need when the return to their communities. Can micro-funding further the work of these leaders?

CRA-W: Building Your Professional Persona Presentations

Track: CRA-W

For: Graduate Students

Location: North 122 A-C

Presenters: Patty Lopez (Intel), Jaime Teevan (Microsoft Research)

This session will address the dos and don'ts of building a professional image. Topics will include web presence (personal pages and social media), dissemination of technical contributions, and professional ethics. You will learn strategies for publishing your first and subsequent research papers and ethical concerns of publishing such as plagiarism, dual submissions, and author ordering. Speakers will also discuss how to manage your web presence so that online search results reflect your desired professional persona.

CRA-W: Starting, Managing, and Growing Your Own Research Program Presentations

Track: CRA-W

For: Early Career Faculty

Location: North 124 A-B

Presenters: Gillian Hayes (University of California, Irvine), Susan Rodger (Duke University)

Whether you are in academia or a research lab, growing your research program means tapping into resources that help you be more successful. Funding can enable you to attract more students, or work on larger projects. Collaboration enables you to work with people outside your area of expertise, initiate new projects, and have a lot of fun. With representatives from both academia and research labs, this session will cover strategies for identifying the resources that are available to you and how best to take advantage of them. Speakers will also discuss strategies for managing student researchers/interns, support personal as well as “managing up” in your interactions with managers, chairs and deans.

CRA-W: Managing Up Workshop

Track: CRA-W

For: Mid-Senior Faculty

Location: North 129 A-B

Facilitators: Deb Agarwal (Lawrence Berkeley National Laboratory), Nancy Amato (Texas A&M University), Tracy Camp (Colorado School of Mines), Kathryn McKinley (Microsoft), Lori Pollock (University of Delaware), Susan Rodger (Duke University)

Managing the people above you in your department or research lab to achieve your goals can take careful strategy. We will discuss a range of topics related to your interactions with senior leaders in your organization including how to get a better understanding of high level politics in your college or lab, methods for managing senior colleagues who are not on your side, ways to deal with leaders who are weak or problematic and strategies for changing the culture of your department without becoming department head. Bring your experiences and questions for the discussion.

2:45 – 4:30 p.m.

Icebreaker Activities Workshop

Track: Icebreaker

For: All

Location: Multiple

Get to know your fellow attendees at this fun icebreaker activity session.

3:30 – 4:30 p.m.

Joining the right technology company board Presentation

Track: Career

For: All

Location: North Halls A-D

Presenter: Nora Denzel (Board Director: Ericsson, AMD, Outerwall and Saba Software)

Joining the right technology company board of directors can be an important career step for many women. With few women on public boards (~14%) and most boards looking for new directors with prior board experience—joining your first company board needs careful planning. In this session, Nora Denzel, who currently sits on 4 public company boards, will talk about the journey of joining your first public board.

Putting Together the Perfect Team: Networking Matters BoF

Track: Career

For: Mid Career Industry

Location: West 301 B-C

Facilitators: Bela Stepanova (Box, Inc.), Divya Jain (Box, Inc.), Kimber Lockhart (One Medical Group), Elena Tatarchenko (Box, Inc.)

Networking can be uncomfortable, especially when not everyone speaks the technical language. How often do we get to network externally with people from other professions? The technology world goes beyond engineers and being able to expand our networks can benefit us tremendously. In this puzzle-solving exercise, we will explore bringing the right group of people together to create a successful start up.

CRA-W: Building Your Professional Network Presentations

Track: CRA-W

For: Graduate Students

Location: North 122 A-C

Presenters: Elizabeth Bautista (Lawrence Berkeley National Laboratory), Raquell Holmes (Boston University)

Many people find their jobs through their professional network. This session will help you find a community, meet people in the field, and promote yourself. You will learn how to present your ideas in a concise and appealing way to the people you meet. You will gain skill in making technical and business connections with others, and leveraging them for success in graduate school and your later career.

CRA-W: Preparing for Promotion Presentations

Track: CRA-W

For: Early Career Faculty

Location: North 124 A-B

Presenters: Julia Hirschberg (Columbia University), Dilma Da Silva (Qualcomm Research)

Do you know what steps you need to take to prepare for your next promotion? Whether this is preparing a tenure case, climbing the technical ladder, or stepping into a management role, this session will teach you what you can be doing now to prepare yourself for that next big promotion.

CRA-W: Senior Career Mentoring Topic Tables

Track: CRA-W

For: Mid-Senior Faculty

Location: North 129 A-B

Facilitators: Deb Agarwal (Lawrence Berkeley National Laboratory), Nancy Amato (Texas A&M University), Tracy Camp (Colorado School of Mines), Kathryn McKinley (Microsoft), Lori Pollock (University of Delaware), Susan Rodger (Duke University)

This session will consist entirely of interactive discussion tables with topics drawn from attendees and the topics of interest that emerge from the first two sessions of the workshop. We will have a number of seed topics if necessary including: “Do you want to be Dean?”, “Do I need to win awards?”, “Do I need to go to a new institution to advance?”, “When is it time to retire”?

6:30 – 7:30 p.m.

Male Allies Plenary Panel

Track: General Sessions

For: All

Location: North Halls A-D

Moderator: Penny Herscher (FirstRain)

Panelists: Mike Schroepfer (Facebook), Alan Eustace (Google), Blake Irving (GoDaddy), Tayloe Stansbury (Intuit)

In any social change movement, the appropriate partnership between the minority group advocating for change, and the majority group holding power and privilege, is crucial. In pursuing our mission to ensure that women are fully present at the innovation table, the role of male allies in our change efforts is key. In this panel, we will hear from men who have been advocates for women technologists, who have been on the front-lines of culture change in technology-based companies. They will share what they have learned as they have “leaned in” to the challenge of creating workplaces that are fair and equitable. Resources available here: <http://www.ncwit.org/GHCmaleallies>.

ACM Student Research Competition – Undergraduate Entries

Development of a Text-to-Speech Synthesis System For Yoruba Language

Adedayo Oluokun (Obafemi Awolowo University)

Tracking and Optimizing Piezoelectric Properties of PVDF for Applications

Andrea Martin (University of New Orleans)

Using Escape Analysis in Dynamic Data Race Detection

Emma Harrington (Williams College)

Detecting and Predicting Home Occupancy

Sarah Abramson (Williams College)

Automatic and Data-driven Approaches to Measuring Child Language Development

Shannon N. Lubetich (Pomona College)

How About Working in Teams?

Shaza Hanif (KU Leuven)

Gamers Segmentation Predictive Analysis and Modeling

Szeyin Lee (Scripps College)

Visualizing 3D Cisterns in Malta and Sicily Using WebGL

Vanessa Forney (California Polytechnic State University, San Luis Obispo)

Identifying Characteristics of Commonly Misclassified Strokes in Single-Stroke Classification

Yoon Hee (Ren) Lee (University of California, San Diego)

ACM Student Research Competition – Graduate Entries

Scalable Visibility Color Map Construction in Spatial Databases

Farhana Murtaza Choudhury (RMIT University)

On Maximum Weight Objects Decomposable into Based Rectilinear Convex Objects

Iffat S. Chowdhury (University of Texas at San Antonio)

Orion: Scaling Genomic Sequence Matching with Fine-Grained Parallelization

Kanak Mahadik (Purdue University)

A Model for Item Satiation and its Application to Recommendation

Komal Kapoor (University of Minnesota, Twin cities)

Platform Ecosystems for the Design of Smart and Sustainable Cities

Larissa Suzuki (University College London (UCL))

Spatial Task Assignment for Crowd Sensing with Cloaked Locations

Layla Pournajaf (Emory University)

Energy-Aware Scheduling for Big Data Applications

Lena Mashayekhy (Wayne State University)

Summarizing Users' Opinion from Social Media Forums

Lu Wang (Cornell University)

Energy Aware Mapping of Applications in Multicore Environment

Madhurima Pore (Arizona State University, Tempe)

Analyzing Gender Difference in Improving Self-Efficacy on Software Engineering Education

Maira Rejane Marques Samary (Universidad de Chile)

Efficient Continuous-Time Markov Chain Estimation: Application on RNA Folding Pathways

Monir Hajiaghayi (University of British Columbia (UBC))

Malware Analysis with an Architectural Approach

Nidhi Rastogi (Rensselaer Polytechnic Institute (RPI))

Model-Based Security Attacks on Body Sensor Networks

Priyanka Bagade (Arizona State University)

Preference Oriented Execution of Fixed Priority Scheduling Framework

Rehana Begam (University of Texas at San Antonio)

Non-uniform Voltage and Pulse-width Settings for Hybrid STT-RAM Caches

Reyhaneh Jabbarvand Behrouz (George Mason University)

Finger Blood Flow Monitoring Using Smart Phones

Shanti Thiyagaraja (University of North Texas)

Detecting Controversy on the Web

Shiri Dori-Hacohen (University of Massachusetts at Amherst)

Predicting Instructor's Intervention in MOOC forums

Snigdha Chaturvedi (University of Maryland, College Park)

Older People as Active Creators of Digital Videos

Susan Moller Ferreira (Universitat Pompeu Fabra)

Building Sensorimotor Controller for Reaching Inspired by Infant Development

Zahra Mahoor (University of Tennessee, Knoxville)

NSF Research Experience for Undergraduates Sites

Trapped Fermions in 1D: a Hybrid Monte Carlo Approach in Non-uniform Lattices

Casey Berger (University of North Carolina at Chapel Hill)

Autonomous Takeoff and Landing of a Quadrotor on a Moving Ground Vehicle Using April Tag Vision-Based Control

Sarah Cen (University of Pennsylvania)

Minimal Weakly Connected Dominating Sets Algorithm

Jenna Wise (Clemson)

Extreme Value Theory and Visual Recognition

Rachel Moore (University of Colorado, Colorado Springs)

Smartphone Continuous Authentication Using Heart and Respiratory Rates

Wendy Rummerfield (New York Institute of Technology)

Evaluating the Engagement of Low-Income Populations in the Online Sharing Economy

Amelia Malone (University of Michigan)

The Effects of Perceived Privacy, Perceived Security, and Intrinsic Reinforcement on Social Network Usage

Kristi Belcher (UT Dallas)

Behavioral Biometric Authentication for Mobile Devices

Han Jang (University of Arkansas at Little Rock)

An Intrusion Detecting, Rapidly Secure Approach to the Intelligent Traffic Systems' Automated Traffic Control Scheme

Mercedes Streeter (Texas Tech)

Accelerating MIMO Acoustic Tomography on GPU

Jessie Smith (Univ Maryland Eastern Shore)

Application of Feature-Matching to Photograph Forensics Using Social Networks

Astrid Suarez (University of Arkansas at Little Rock)

NCWIT Aspirations in Computing Award Posters

Unmanned Aerial Vehicles with Humanitarian Purpose

Courtney Thurston (Commonwealth Connections Academy)

Text Mining of Online Cancer Support Groups

Ankita Pannu (The Harker School)

A Novel Approach to Measuring Password Strength Using Web Popularity

Amy Shen (Stanford University)

Mirror Worlds: A Living Lab for Asynchronous and Synchronous Investigation of Virtual and Real Environments

Kara Vaillancourt (Virginia Tech)

Engineering Quality in the Robotic World

Vicki Niu (Stanford University)

Development of a Robotic Prosthetic Hand for Leprosy Victims

Ananya Cleetus (Carnegie Mellon University)

Analyzing and Preventing Quick Response Code-based Malware and Phishing Attacks for Smartphones

Alisha Saxena (Conducted Research at University of Washington, fall student at MIT)

Improving the Security of Young Women in India

Sruti Modekurty (Carnegie Mellon University)

Aspire IT--Introducing Middle School Girls to STEM One Step At a Time

Laan Yeung (West Lafayette High School)

CRA-W CREU Posters

Taxonomizing the User-centered Design Strategies of Online Citizen Science Projects

Emily Bertelson (University of Colorado, Boulder)

Automatically Extracting a Software Word Usage Model from Java Comments

Kathy Chowaniec (Montclair State University)

Power Signature Analysis of Supercomputing Applications

Rachelle Thysell (Sonoma State University)

Using MapReduce to Compare Large Collections of Evolutionary Trees

Lisa Jones (US Military Academy)

Explanatory and Discursive Gesticulation: Frequency of Representational and Discursive Gestures

Katherine Sittig-Boyd (Simmons College)

Visualizing Malicious Twitter Users

Cathryn Ploehn (University of Texas, Dallas)

Duplicate Bug Report Detection Using Similarity Measures

Bonita Sharif (Youngstown State University)

Analysis of Sentiment and Emotion during the Gulf Oil Spill

Megan Torkildson (University of Washington)

General Poster Session

Cooperative Modulation Classification of Wireless Signals in Cognitive Radio Networks

Mahi Abdelbar (Virginia Polytechnic Institute and State University)

Wireless Signal Attenuation on Robot Team Performance

Kriti Acharya (University of District of Columbia)

Experience running a Technovation Challenge in Brazil

Camila Fernandez Achutti (University of Sao Paulo)

Smart Phone Battery Performance Optimization by Analyzing Usage Patterns

Syeda Farzia Afroz (Bangladesh University of Engineering and Technology)

(Builder Bob) Interactive Learning Simulation System for Flood Management

Anshika Agarwal (University of Illinois at Chicago)

Mechanics and Physics of HIV Virus interaction With Cell-Membranes

Himani Agrawal (University of Houston)

Trust Assessment in a Self-adaptive Society of Agents

Kamilia Ahmadi (Utah State University)

Safety Analysis of Attribute Based Access Control ABAC-alpha Model

Tahmina Ahmed (University of Texas at San Antonio)

Geometric Algorithms for Street-map Construction and Comparison

Mahmuda Ahmed (University of Texas at San Antonio)

A New Object-oriented Framework for Modeling Membrane Proteins

Rebecca F. Alford (Carnegie Mellon University)

Multirobot Levy Walk: Bio-inspired Approach to Exploration

Uzma Amir (University of the District of Columbia)

Impact of Imbalance Usage of Social Networking Sites on Families

Anika Anwar (Bangladesh University of Engineering and Technology)

Increasing Success in Technology Workshops by Incorporating Team Building Activities

Rocio Arellano (Women in Technology Peru)

Find Your Spark! Self-mentoring and Inspiration Via Personal Stories

Sarah Asif (Anita's Quilt, Colby College)

Intelligent Remote Monitoring and Prediction System for Major Depression

Solmaz Bagherpour (Universitat Politècnica de Catalunya)

Software Architectures for Delivering Customizable, Policy-Based Web Services

Alegria Baquero (University of California, Irvine)

Analyzing Data for Humanistic and Social Inquiry

Toby Baratta (Grinnell College)

Rare Pattern Discovery from Time Series

Nurjahan Begum (University of California, Riverside)

Towards Automatic Filtering of Unwanted Web Resources

Sruti Bhagavatula (University of Illinois at Chicago)

PEMT: A Tool that Automates Product Execution Management

Aishwarya Bhat (Intel Corporation)

Opinion Detection of Twitter Users Using a Supervised Learning Approach

Kasturi Bhattacharjee (UC Santa Barbara)

Giving Students Automated Feedback on Java Program Flaws

Hannah Blau (University of Massachusetts at Amherst)

Designing Voice-Based Interfaces for Older Adults

Robin N. Brewer (Northwestern University)

Modeling and Prediction of Heart-Related Hospitalization Using Electronic Health Records

Theodora Brisimi (Boston University)

Simulating Cancer Growth Using Cellular Automata for Treatment Discovery

Jenna L. Butler (University of Western Ontario)

Reducing Patients' Waiting Time at Physicians' Offices

Manuela Caicedo (University of Puerto Rico, Mayagüez Campus)

Time-Frequency Analysis for Linear and Time-Invariant (LTI) Communication Channels

Keisha Castillo-Torres (University of Puerto Rico at Mayagüez)

Adaptive Computational Systems for Physiological and Biomedical Data

Rita Chattopadhyay (Intel Inc.)

Nanonetworks Using Near Field Communication

Tanzila Choudhury (Bangladesh University of Engineering and Technology)

Automatically Extracting a Software Word Usage Model from Java Comments

Kathy N. Chowaniec (Montclair State University)

ShomoGaan: Ensuring Education to Illiterate Female Population in Developing Countries
Tasnim Chowdhury (Bangladesh University of Engineering and Technology)

Statistical Analysis for Fraud Detection in Smart Meter Data
Christa Cody (Tennessee Technological University)

TECHMIN (Technology and Mining)
Jessica Cotrina Revilla (Universidad Privada del Norte)

The Birchbox Problem. OR + AI = Surprise & Delight
Liz Crawford (Birchbox Inc)

Assigning Auxiliary Roles To STT-MRAM Memory
Jayita Das (University of South Florida)

Integrated Data and Computational Framework for Successful Aging
Dipanwita Dasgupta (University of Notre Dame)

Designing Persuasive Technology for Improving Sleep Behaviors
Nediyana Daskalova (Brown University)

Signal Processing Techniques for Digital Hearing Aid Systems
Sylmarie Davila-Montero (University of Puerto Rico at Mayaguez)

Interactive Visualization of WebSphere Application Server System Logs Using HTML5
Anne S. DeCusatis (State University of New York at New Paltz)

A Multi-Level Framework for Modeling Usability of Text-based CAPTCHA
Jasmine DeHart (Philander Smith College)

UI Plug-in Architecture
Ruchika Dhingra (Intuit)

Notable Women in Computing and Wikipedia
Katy Dickinson (Everwise)

Effective Content Spam Detection Using Topical Diversity Measures
Cailling Dong (University of Maryland, Baltimore County)

Big Data: A Journey of Innovation
Sastry Durvasula (American Express)

Examining the Relationship between Self-Efficacy and Mobile Health App Use
Elizabeth Eikey (Pennsylvania State University)

A Path Planning Problem on 3D Scanning
Xinyi Fan (Princeton University)

Accessible Programming Interface for Mobility Impaired Programmers Using Voice Recognition
Xiomara Figueroa (University of Puerto Rico)

Evaluating Status Hierarchy and Social Interactions through a Web Application
Madeline Forrestel (Washington and Lee University)

Use of Hybrid Systems to Model the RobotiQ Adaptive Gripper
Giulia Franchi (University of Roma Tre)

Twitter Ain't Without Frontiers
Ruth Garcia (Universitat Pompeu Fabra)

Translating Sentences from Natural to Formal Language
Shruti Gaur (Arizona State University, Tempe)

Effects of Stalling Events on the QoE of Mobile Videos
Deepti Ghadiyaram (University of Texas at Dallas)

Impatience, Risk propensity and Rationality in Timing Games
Moojan Ghafurian (Pennsylvania State University)

Detecting Plagiarized Mobile Apps using API Birthmarks
Amruta Gokhale (Rutgers)

Web Development for Non-Profit Organizations
Elena M. Gonzalez (DePauw University)

Data Visualization Using the Library D3.js
Roxana Gonzalez-Burgos (Universidad de Puerto Rico, Rio Piedras)

Predicting Closed Questions on Stack Overflow
Priya Goyal (Indian Institute of Technology, Kanpur-India)

How to Thrive and Succeed after Company Mergers
Gowri Grewal (Hackbright Academy - Alumna)

Mobile Volumetric Rendering for mHealth Applications
Ievgeniia Gutenko (Stony Brook University)

Collaborative Path Planning for Unmanned Aerial Vehicles
Durdana Habib (National University of Computer & Emerging Sciences)

Selection Matters if You Care About Reliability
Israat Tanzeena Haque (University of Alberta)

Modernizing Technical Education: Informal Learning Organizations Attract Women to STEM
Dahlia Hegab (University of California, Irvine)

People Managers - Transform Your One-on-one Meetings with Coaching Techniques
Heidi Helfand (AppFolio, Inc.)

Segmental Analysis and Evaluation of User Focused Search Process
Chathra Hendahewa (Rutgers)

Starting from Scratch: Contributions to the Computer Science Education Movement
Grace E. Horvath (Northwest Missouri State University)

Mobile Development Learning – A LinkedIn Case Study
Xin Hu (LinkedIn)

Empowering the Young, Digital Mexico
Isis Ibarra Garcia (Tecnológico de Monterrey (ITESM))

Starting Your Career in a Global Company in a Different Country
Surbhi Jain (Google Tokyo)

Hidden Energy Consumption of Photo Sharing in Online Social Networks
Fatemeh Jalali (University of Melbourne)

Computation of Renewable Energy Harvesting
Grishma Jena (Symbiosis Institute of Technology)

Using App Inventor to Engage African American Students
Yerika Jimenez (University of Florida)

Vehicle Counting from Surveillance Videos
Yanzi Jin (University of Illinois at Chicago)

Q-Nerve: Propagating Signal of A Damaged Nerve Using Quantum Networking
Kazi Sinthia Kabir (Bangladesh University of Engineering and Technology)

Analyze Human Characteristics and Social Class Using Social Network Data
Samia Kabir (Bangladesh University of Engineering and Technology)

Mail on Your Mobile
Nazifa Karima (Bangladesh University of Engineering and Technology)

Polyglot Joins in Cloud
Karamjit Kaur (Thapar University)

Named Entity Recognition for Noisy Data
Dallas B. Kidd (University of Houston)

Emotion Classification: A Pattern-Based Approach To Characterizing Affective Expressions
Yelin Kim (University of Michigan - Ann Arbor)

Students' Mental Models of Recursively-Defined Objects
Andrea C. Kimball (Pomona College)

Introducing New Input Devices in Scratch Programming Workshops
Nobuko Kishi (Tsuda College)

Graph Clustering via Convex Optimization : Sharp Performance Bounds
Ramya Korlakai Vinayak (California Institute of Technology)

Female Dis-inclinations to Tinker: An Obstacle in Computer Science?

Sammy Krieger (University of British Columbia)

Trust Metrics for Online Social Media

Kaushalya Kularatnam (University of Oxford)

iHart: Interactive Hallways for Attraction and Retention in Technology

Pavlina Lejskova (Mount Holyoke College)

Differentially Private Synthesis of Multi-Dimensional Data using Copula Functions

Haoran Li (Emory University)

Exploring Friendship from Linguistic Behavior: Examples from Television Fictional Characters

Grace I. Lin (University of California, Santa Cruz)

The Effective Strategies for Testing

Tiffany Low (Box)

Extending Blockly To Improve MIT App Inventor

Xixi Lu (Wellesley College)

Product A/B Testing – Look Before You Leap

Mridula(Mita) Mahadevan (Intuit Inc.)

Successive Approximation Register Analog-Digital Converter Automatic Placement and Routing

Ifana Mahbub (University of Tennessee, Knoxville)

Curriculum Development of Python Workshop Series at Tulane University

Olivia Mahler-Haug (Tulane University)

Intelligent Data Clustering for Cold-data Storage in Main-Memory Database Systems

Atreyee S. Maiti (Carnegie Mellon University)

Creative Cross-Disciplinary Curriculum Development for Elementary Engineering Education

Emily A. Marasco (University of Calgary)

kVMTrace: An Efficient Main Memory Reference Trace Collector

Marie Margishvili (Amherst College)

A Modern CS2: Implementing Social Good and Mobile Technologies

Lea Marolt Sonnenschein (Grinnell College)

Skip to My List: Toward a Game-Based Big Data Curriculum

Allison G. Martínez-Arocho (Meredith College)

Complexity of Equivalence and Learning for Multiplicity Tree Automata

Ines Marusic (University of Oxford)

Workplace Lactation Programs: An Important Benefit and Vital Retention Tool

Kate Maxwell (Raytheon)

Data for Everyone! Communicating About Big Data

Hilarie L. Mazur (Microsoft)

Scaffolding Java Programming on a Mobile Phone for Novice Learners

Charity Chao Mbogo (University of Cape Town)

Secure Mathematically-Assured Composition of Control Models (SMACCM)

Kristin S. Mead (University of Minnesota)

Breaking the Code Barrier: Young Women Succeed in Computer Science

Esperanza Medina (Young Women in Computing)

Hey, I Am In: Intrusion into Online Social Network Groups

Shagufta Mehnaz (Purdue University)

Transitioning To A New HPC Programming Paradigm

Tiffany M. Mintz (Oak Ridge National Laboratory)

Do Stylometry Methods Fail When Authors Write in Different Voices?

Tamine Mokdissi (Drexel University)

A Survey on Outlier Detection Methods

Marjan Momtazpour (Virginia Polytechnic Institute and State University)

Design-based vs Language-based: Which Coding Platform Intensifies Student Interest?

Noor Muhyi (New Mexico State University)

A Hierarchical Requirements Reference Modelb

Anitha Murugesan (University of Minnesota, University of Minnesota, Twin cities)

Geocode Your World!

Kristin M. Muterspaw (Earlham College)

Discovery of Persistent Threat Structures through Temporal and Geo-Spatial Characterization

Josephine M. Namayanja (University of Maryland, Baltimore County)

Platform for Reporting and Visualizing Data on Violence Against Women

Joannah Nanjeyke (Freelance)

Exposing Children to Computers at an Early Age

Bonita Beatrice Nanziri (Makerere University)

Adaptive E-Learning for Students with Learning Impairments

Harshani Nawarathna (University of Moratuwa)

Can We Have Trustworthy Digital Curators?

Archana Nottamkandath (Vrije university)

Introducing Students to the Digital Humanities

Samantha O'Dell (Washington and Lee University)

The Use of Collaborative Technology with Elementary School Students

Jennifer K. Olsen (Carnegie Mellon University)

Improving Online Education Effectiveness

Michelle L. Olynyk (Wellesley College)

Clinical Decision Support Systems for Early Risk Assessments During Pregnancies

Daphne E. Ong (Carleton University)

Logic Gate Recognition and Classification Using Shape Context

Elijah Overbey (University of California San Diego)

Harnessing the Collaborative Power of Hack-a-Thons to Improve Security Design

Stephanie Padilla (Intel Corporation)

Approximate Computing in Mobile Computing Grids

Parul Pandey (Rutgers University)

The Art of Big Data Transfer

Suzanne Parete-Koon (Oak Ridge National Laboratory)

Log Analysis Technologies - Splunk vs. Logstash

Payal Patel (Intuit)

An Investigation of Design Features for Inverted Classroom Support Technology

Joslenne Pena (Penn State University)

Save Distance Save Time

Ancy Philip (Anna University)

Identity Security in Cyberspace - A Data-Reachability Model

Elizabeth F. H. Phillips (Oxford University)

Designing Multi-Touch Gestures to Support Emotional Expression in IM

Afarin Pirzadeh (IUPUI)

MyWellnessManager: A Mobile Wellness Application

Alana Platt (University of Wisconsin – Whitewater)

Visualizing Malicious Twitter Users

Cathryn Ploehn (The University of Texas at Dallas)

Maximum Visibility Queries in Spatial Databases

Sarah M. Preum (University of Virginia)

Certificateless Signcryption with Tight Security Reduction, Without Pairing

Swaathi Ramesh (National Institute of Technology, Tiruchirapalli)

Mining Software Repositories for IR Based Bug Localization

Shivani Rao (Box Inc)

mVeteranCommunity: A Mobile-Network for Veterans Going Through Civilian Reintegration

Rizwana Rizia (Marquette University)

Combining Voice Access with Aural Navigation Flows for Eyes-Free Browsing

Romisa Rohani Ghahari (IUPUI)

Relational Learning in Network Datasets

Tanwistha Saha (George Mason University)

Understanding Collaboration in Primary Healthcare Centers, Through Process Mining Algorithms

Cecilia Saint-Pierre (Pontificia Universidad Catolica de Chile)

Group Trip Planning Queries in Road Networks

Samaha Samrose (Bangladesh University of Engineering and Technology)

Experiences Applying Software Engineering to Xsede

Tabitha K. Samuel (National Institute for Computational Sciences)

An Analysis of Mobility Traces from Milan Tollgate Data

Claire M. Schlenker (Wellesley College)

Neuroscience-Inspired Dynamic Architectures

Catherine Schuman (University of Tennessee, University of Tennessee, Knoxville)

Transportation: Tracking and Preventing Accidents

Samia Shafique (Bangladesh University of Engineering and Technology)

Edge Preserving Lossless/Near-Lossless Depth Map Coding

Shampa Shahriyar (Monash University)

NetScript: A Domain Specific Language for Network Analytics

Zalia Shams (Virginia Polytechnic Institute and State University)

Computational Modeling and Visualization of the Effects of Counterfeit Components

Vishakha Sharma (Stevens Institute of Technology)

Optimizing Controllability of Complex Networks

Forough Sheikh Ansari (Purdue University)

Wearable Device to Reward Helping Behavior During Interaction with Public-Displays

Asmaa Shoala (Alexandria University)

IT Innovation for Education: Customized Multi-Format Google Form

Chandani Shrestha (Benedict College)

Enterprise Software Tools - Agility with Quality

Sukhdeep Sidhu (Box)

Cross-species Transfer Learning of Genetic Regulatory Networks

Elizabeth R. Silver (Carnegie Mellon University)

Big Data Analytics Aerospace Industry

Neha Singh (Arizona State University, Polytechnic)

Appropriate and Inappropriate Clarification Questions in Spoken Dialogue Systems

Rose Sloan (Yale University)

Leadership Development for STEM Women

Michelle Somerday (Neo-Strategic, LLC)

Developing Cloud-Aware Apps

Catherine Spence (Intel)

A Machine Learning Based Approach to Executive Functioning Disorders

Sanjana Srivastava (The Blake School)

Comparing App Inventor 2 and App Inventor Classic

Cali E. Stenson (Wellesley College)

Incremental Discovery of Prominent Situational Facts

Afroza Sultana (University of Texas at Arlington)

International Experience for Everyone Everywhere: The Skinny on Working Abroad

Teresa M. Talbot (Salesforce.com)

Career Courage - Key to Success

Nirmala Tatikonda (Intel)

Reignite Your Passion for Technology Through Mentoring Girls

Anuranjita Tewary (Intuit)

High-performance Parallel Cache-oblivious Recursive Dynamic Programming with MM-like Flexible Kernels

Jesmin Jahan Tithi (Stony Brook University, State University of New York)

Get the Message Out ASAP: #researchproject

Nhu-Thuy Ton (University of the District of Columbia)

Trends in the Interests of Women Pursuing Computer Science

Christina Tong (Pomona College)

Data Analytic to Predict Notification System Performance

Roma Vachhani (Kean University)

Breaking Out of the Resume

Alina M. Valero (Birchbox)

Gamification Of K-12 Learning With Real World Incentives

Sarada Velagapudi (Mayera Software Solutions LLC)

Building the first Women in Technology community in Peru

Andrea Villanes (North Carolina State University)

Coral Vision: Software for Improving Efficiency in Coral Monitoring

Cory L. Walker (Washington and Lee University)

Data Cleaning on Date Field of Scanned Books

Jing Xie (University of Massachusetts at Amherst)

Designing RNA Secondary Structures in Coding Regions

Rukhsana Yeasmin (Stony Brook University, State University of New York)

MOVH: Multi-Objective Vertical Hand-off Mechanism with Higher Scalability and Stability

Hafsa Zannat (BUET)

Massive Open Online Course Interface Requirements to Harness Collective Intelligence

Anna Zawilska (University of Oxford)

Adaptation as Integrated Endeavor: Learning from the Timeline Deployment Study

Saijing Zheng (Pennsylvania State University)

Application Design Considerations for Google Glass

Veronica Zheng (Dropbox, Inc.)

ExtrHech: Open Information Extraction System for Spanish

Alisa Zhila (Center for Computing Research, Instituto Politecnico Nacional, Mexico)

PROGRAM SCHEDULE - THURSDAY, OCTOBER 9, 2014

7:00 a.m. Registration Opens (7:00 a.m. - 7:30 p.m.) (Lower Level Pre-Function Lobby, North Building)
 Career Fair (10:00 a.m. - 5:30 p.m.) (North Halls 1-6)

ABIE Awards Presentation (Technical Leadership ABIE Award Winner) Satya Nadella in conversation with Maria Klawe (North Halls A-D)

Time	GFX	INTERNET OF THINGS	CLOUD COMPUTING	DATA SCIENCE	HCI	SECURITY	FACULTY (Career Focus)	BEST OF	CAREER	CAREER	CAREER	ORG CHANGE	TECH EXEC FORUM	MENTORING	MENTORING	
10:15 a.m.	Integrating Gaming & Fitness Panel ●●○	Innovative IoT Apps Presentations ●●○	Deploying Your Application On Public Cloud Workshop ●●○	Data Science in Practical Applications Presentations ●●○	Elizabeth Churchill Invited Tech Speaker (All) North Halls A-D	Biometrics - Cool or Creepy? Panel ●●○	Prof or Prez: Choosing Your Path Panel North 121 A-C	Winning at the Game of Office Politics (REPEAT) (Mid) North 120 B-C	Difficult Conversations Workshop (All) West 301 B-C	Innovation - Grassroots thru Corporate Initiatives Panel (Early-Mid) North 122 A-C	Accountability and Metrics for Gender Diversity Panel (All) North 120 D	Technical Executive Forum (Invite Only)	Senior Women Program (By Invitation/Application Only) 11:00 a.m. - 2:00 p.m. (West 101 A-C)	Speed Mentoring: Session 1 (South Ballroom)		
11:15 a.m.							Break - Snacks provided (North Halls 1-6)									
12:00 p.m.	Lightning Talks ●●○	Yoky Matsuoka Invited Tech Speaker (All) North Halls A-D	Presentations ●●○	Lightning Talks ●●○	PHD Forum ●●● North 126 A-C	Presentations ●●○	Funding Advice from the Inside Panel North 121 A-C	Introducing Swift Playgrounds ●○○ West 301 B-C	UWIC Panel: How to Craft Your Network (All) North 120 A	Why Women in Tech Should Patent Ideas Panel (Early-Mid) North 127 A-C	The Dynamics of Hyper-Effective Teams Workshop (All) North 120 D					
1:00 p.m.							Lunch Available for Purchase at the Convention Center (see GHC website for food options location) Women of Color Lunch (West 301 D) LGBT Lunch (North 221 A-C) Research Labs Lunch (North 222 A-C) Lunchtime Table Topics (North Halls 1-6)									
2:15 p.m.																
3:15 p.m.																
3:30 p.m.	Presentations ●●○	Doing Good Using Technology BoF ●○○ North 129 A-B	Web Services: Grow, Refactor, Rebuild Panel ●●○ North 120 A	Rayid Ghani Invited Tech Speaker (All) North Halls A-D	Designing for women BoF ●○○ West 301 A	Presentations ●●○	Presentations North 121 A-C	ACM SRC Competition (Grad) ●●● North 127 A-C	ACM SRC Competition (Undergrad) ●●● North 126 A-C	Presentations (All) North 120 B-C	Accelerating the Advancement of Women Panel (All) North 120 D	Technical Executive Forum (Invite Only)				
4:30 p.m.																
5:15 p.m.	OpenCL: Heterogeneous Computing Workshop ●●○	Panel: Everywhere, Everyone Can Make! Panel ●●○ West 301 B-C	Diverse Perspectives on Extreme Reliability BoF ●●○ West 301 A	Real World Data Science at Scale Panel ●○○ North 120 A	Lightning Talks ●●○ North 121 A-C	Presentations ●●○	Taking Charge: Mapping Your Academic Leadership Path North 126 A-C	ABIE WINNER - Programming with Molecules (All) North Halls A-D	Advancing Work from Home Options BoF (All) North 129 A-B	Building a Web/Social Presence Panel (All) North 120 B-C	The Dynamics of Hyper-Effective Teams Workshop (REPEAT) (All) North 120 D	Male Allies Focus Group West 101 A-C				
6:15 p.m.																
6:30 p.m.																
7:30 p.m.																
8:30 p.m.																
9:30 p.m.																
12:00 a.m.																

FILM FESTIVAL 2014 - GIRL RISING, "MAKERS" SERIES Dancing & Entertainment (Dessert will be served) (North 120 Ballroom Pre-Function Lobby)

KEY: ●○○ OVERVIEW ●○○ LEARN MORE ●●● IN-DEPTH

Everywhere. Everyone.



As the largest conference for women in computing, today's tracks are designed to nurture your technical curiosity, challenge your thinking, showcase cutting-edge technology solutions and facilitate open conversations about your career. There is something for everyone at each time slot.

GET INSPIRED

We start off the day with our Technical Leadership ABIE Award winner, Dr. Anne Condon, who will also be speaking about her award-winning work at 5:15 p.m. This is followed by a candid conversation between Microsoft CEO Satya Nadella, and the ever-inspiring Maria Klawe, President of Harvey Mudd College.

Sure to get you fired up are the Invited Technical Speakers featured throughout the day including Elizabeth Churchill, Director of Human Computer Interaction at eBay Research Labs who has over 40 patents, Yoky Matsuoka, VP of Technology at Nest Labs and a founding member of Google [x], and Rayid Ghani, who was the chief data scientist for the Obama 2012 campaign.

Getting more women into computing isn't just about looking at what women are or aren't doing right, or how they need to change. Perhaps the bigger part of the innovation discussion should focus on organizations. And if they're not measuring numbers, they're not being accountable. Intrigued about how we can change the status quo? Check out our Organizational Change track.

GAIN EXPERTISE

Learn about the latest developments in our technical tracks featuring headline-generating fields such as biometrics, cloud computing, and data science. And don't miss out on Apple's debut of their Swift Playgrounds Programming language tutorial featured in our Best Of track.

GET CONNECTED

Want more time to meet with like-minded peers, mentors and future employers? Check out Speed Mentoring, lunch sessions, Lunch Time Table Topics, and the Senior Women in Computing Program.

HAVE FUN!

Kick back during GHC's first ever film festival! Be inspired by the endless potential of young girls, and the endless creativity of fearless makers, movers and shakers—who all just happen to be women.

And of course no GHC is complete without a night of letting loose on the dance floor. Get to know a whole other side of your newfound friends and mentors!

Plenary at 8:30 a.m.

Satya Nadella, in conversation with Maria Klawe

Satya Nadella

Chief Executive Officer, Microsoft



Satya Nadella is Chief Executive Officer of Microsoft. Before being named CEO in February 2014, Nadella held leadership roles in both enterprise and consumer businesses across the company.

Joining Microsoft in 1992, he quickly became known as a leader who could span a breadth of technologies and businesses to transform some of Microsoft's biggest product offerings.

Most recently, Nadella was executive vice president of Microsoft's Cloud and Enterprise group. In this role he led the transformation to the cloud infrastructure and services business, which outperformed the market and took share from competition. Previously, Nadella led R&D for the Online Services Division and was vice president of the Microsoft Business Division. Before joining Microsoft, Nadella was a member of the technology staff at Sun Microsystems.

Originally from Hyderabad, India, Nadella lives in Bellevue, Wash. He earned a bachelor's degree in electrical engineering from Mangalore University, a master's degree in computer science from the University of Wisconsin – Milwaukee and a master's degree in business administration from the University of Chicago. He is married and has three children.

Maria Klawe

President, Harvey Mudd College



Maria Klawe began her tenure as Harvey Mudd College's fifth president in 2006. A renowned computer scientist and scholar, President Klawe is the first woman to lead the College since its founding in 1955.

Prior to joining HMC, she served as dean of engineering and professor of computer science at Princeton University. During her time at Princeton, Maria led the School of Engineering and Applied Science through a strategic planning exercise that created an exciting and widely embraced vision for the school. Maria joined Princeton from the University of British Columbia where she served as dean of science from 1998 to 2002, vice president of student and academic services from 1995 to 1998 and head of the Department of Computer Science from 1988 to 1995.

Prior to UBC, Maria spent eight years with IBM Research in California, and two years at the University of Toronto. She received her PhD (1977) and BSc (1973) in mathematics from the University of Alberta. Maria has made significant research contributions in several areas of mathematics and computer science, and her current research focuses on discrete mathematics.

Maria is a renowned lecturer on diversity in STEM disciplines and industries, devoting particular attention in recent years to improving K-12 science and mathematics education. She is one of the ten members of the board of Microsoft Corporation, a board member of Broadcom Corporation and the nonprofit Math for America, a fellow of the American Academy of Arts & Sciences, a trustee for the Mathematical Sciences Research Institute in Berkeley and a member of the Stanford Engineering Advisory Council, the Advisory Council for the Computer Science Teachers Association, and the Canada Excellence Research Chairs Selection Board. She is co-chair of the Scientific Advisory Board of the Simons Institute at UC Berkeley. Maria is also the Anita Borg Institute's 2014 Women of Vision Leadership Award winner.

Awards Presentation



Anne Condon

2014 Winner of the Grace Hopper Celebration Technical Leadership ABIE Award

Dr. Anne Condon is a professor and the head of the Department of Computer Science at University of British Columbia. She received her bachelor's degree (1982) from University College Cork, Ireland, and her PhD (1987) at the University of Washington. Anne's research interests are in biomolecular computation and computational prediction of RNA and DNA structure and folding pathways, with applications to design of novel structures and to gene synthesis. She and her collaborators have developed algorithms and thermodynamic models that have improved the efficiency and accuracy of state-of-the-art methods for nucleic acid secondary structure prediction. More broadly, her research contributions span computational complexity theory, hardware verification, bioinformatics biomolecular computation, and combinatorial auctions.

Anne has received an ACM Distinguished Dissertation Award, an NSF Young Investigator Award, and Distinguished Alumna Awards from University College Cork and University of Washington's CSE Department and College of Engineering. She is an ACM Fellow and a Fellow of the Royal Society of Canada. She received the 2010 Computing Research Association's Habermann Award for outstanding contributions aimed at increasing the numbers and successes of women in computing research.

Anne served on the Computing Research Association's Committee on the Status of Women (CRA-W) (1994-2007), leading as co-chair from 2000-2003, and helped expand CRA-W's programs to Canada.

Anne was Program Chair (2007) and Conference Chair (2008) of the Grace Hopper Celebration of Women in Computing, and co-organized a Regional Hopper conference in the Pacific Northwest in 2014. She is active in mentoring and supervising women students and researchers, both at UBC and elsewhere.

Invited Technical Speakers

10:15 – 11:15 a.m.



Elizabeth Churchill

Director of Human Computer Interaction, eBay Research Labs

Elizabeth Churchill (<http://elizabethchurchill.com/>) is director of human computer interaction at eBay Research Labs. Originally a psychologist by training, for the last 20 years she has worked on the design of innovative technologies for personal use, for communication and for social coordination. Her most recent focus is on sociotechnical innovation within the commerce space. She has over 150 peer reviewed publications, over 40 patents issued or pending, five edited books, and has been a regular columnist for ACM Interactions. Her most recent co-authored book is entitled Foundations for Designing User-Centered Systems. She is the current Executive Vice President of ACM SIGCHI. She is also an ACM Distinguished Scientist and a Distinguished Visiting Scholar at Stanford University's Media X. She serves on numerous journal, conference and event advisory boards. She recently joined the advisory board for the Mobile Life Research Center in Kista, Sweden and has been advising on the creation of a new initiative in Human Data Interaction with scholars in the United Kingdom. She has a PhD from the University of Cambridge in the UK in Cognitive Science. You can find her on Twitter at @xeeliz.

12:00 – 1:00 p.m.



Yoky Matsuoka

VP of Technology at Nest Labs

Yoky Matsuoka is VP of Technology at Nest Labs. Nest reinvents unloved but important home products, like the thermostat and the smoke alarm. She invents and designs smart features that bring people comfort, safety, convenience and efficiency in their home. Yoky grew up assuming she would become a professional tennis player. One thing led to another, and she ended up with a B.S. from UC Berkeley and a Ph.D. from MIT in Electrical Engineering & Computer Science in the fields of Artificial Intelligence and Computational Neuroscience. Subsequently, she became a professor at Carnegie Mellon University and later at the University of Washington developing robotic devices for rehabilitating and assisting the human body and brain. This work led her to the MacArthur Award and being named one of “The Brilliant Ten” by Popular Science Magazine and one of the “Top 10 Women to Watch in 2010” by Barbie. In late 2009, she joined Google [x] as one of the three founding members before taking her current position at Nest. She is happy to have four children under age 9 and most of all enjoys cheering them on from the sidelines of their extracurricular activities.

3:30 – 4:30 p.m.



Rayid Ghani

Research Director and Senior Fellow at the Computation Institute and the Harris School of Public Policy at the University of Chicago

Rayid Ghani is a Research Director and Senior Fellow at the Computation Institute and the Harris School of Public Policy at the University of Chicago. He is also the co-founder of Edgeflip, an analytics and social media startup helping non-profits, advocacy groups, and charities do better fundraising, volunteer recruiting, outreach and advocacy. Rayid is currently focused on using data science for social causes, both with the University of Chicago and Edgeflip. Rayid created and runs the Eric & Wendy Schmidt “Data Science for Social Good” Summer Fellowship which brings together aspiring data scientists to work on data science projects in partnership with governments and non-profits. At the university, Rayid directs the Center for Data Science and Public Policy and is also developing and teaching courses that bring together Data Science and Public Policy.

Before joining the University of Chicago and starting Edgeflip, Rayid was the Chief Scientist for the Obama 2012 Election Campaign focusing on analytics, data, and technology. Rayid did his graduate work in Machine Learning from Carnegie Mellon University. In his spare time, Rayid advises several startups and non-profits and speaks at, attends, and organizes academic and industry machine learning and data mining conferences.

10:15 – 11:15 a.m.

Invited Technical Speaker - Foundations for Designing User Centered Systems: A framework and some case studies

Track: HCI

For: All

Location: North Halls A-D

Presenter: Elizabeth Churchill (eBay Research Labs)

Interactive technologies pervade every aspect of modern life. Web sites, mobile devices, household gadgets, automotive controls, aircraft flight decks; everywhere you look, people are interacting with technologies. These interactions are governed by a combination of: the users' capabilities, capacities, proclivities and predilections; what the user(s) hope to do and/or are trying to do; and the context in which the activities are taking place. From concept to ideation to prototype and evaluation, when designing interactive technologies and systems for use by people, it is critical that we start with some understanding of who the users will be, what tasks and experiences are we are designing to support; and something about the context(s) of use. In this talk, I will discuss a framework for thinking about design, the ABCS. Using examples from my own work, I will illustrate how this framework has been explicitly and/or tacitly applied in the design, development and evaluation of interactive, multimedia systems.

Reverse Engineering Difficult Discussions Workshop

Track: Career

For: All

Location: West 301 B-C

Presenter: Janel K. Anderson (Working Conversations)

What if you had a difficult discussion with someone and instead of getting defensive, they thanked you? You will learn how reverse engineer successful difficult discussions and implement a model that will make people receptive instead of defensive in this applied workshop. From how you prepare, to the first words you say, to how you close the conversation, this workshop provides a step-by-step process for having difficult workplace conversations.

Biometrics - Cool or Creepy? Panel

Track: Security/Privacy

For: ●●○

Location: West 301 A

Moderator: Tracy Kerrins (Bank of America)

Panelists: Michal Raz (Vidyo), Barak Eliam (NICE Systems), Carrie Lazorchak (Nuance Communications), Mark Rohrwasser (PayPal)

Fingerprint recognition has been a highly used method for human recognition for decades. However, other biometric technologies are creating a buzz across multiple industries. Is it cool or creepy that a person can be recognized based on facial features, their voice, or even their iris? Learn about emerging biometric technologies and how they are being used for identification, authentication and enhanced security from a diverse group of industry leaders.

Data Science in Practical Applications Presentations

Track: Data Science

For: ●●○

Location: North 120 A

AI: A Return to Meaning

Presenter: Dave Ferrucci (Bridgewater Associates)

Intelligent systems capable of leveraging immense volumes of data are increasingly essential for advancing industry, science and society. Artificial Intelligence has evolved from theory-driven to data-driven approaches to efficiently interpret this exponentially growing content. The compromise, however, has been the ability to explain predictions in ways that engage the power of human cognition. The best approach to advancing intelligent systems may require an integration of data, theory and human intuition.

Fraud Detection with Machine Learning: A Case Study from Sift Science

Presenter: Evelyn A. Gillie (Sift Science)

Sift Science uses large-scale machine learning to detect online fraud. I will discuss what kinds of signals we use to identify fraud, and will focus on the system and algorithmic challenges of "real world" machine learning and the practical challenges that arise from learning on massive (and sometimes messy!) datasets.

New Techniques in Road Network Comparison

Presenter: Brittany Terese Fasy (Tulane University)

Road networks are always changing: new streets are built; accidents and floods close roads, etc. Detecting when and if, a change has occurred is an important question. In this presentation, we highlight recent progress in computing the distance between two road networks.

Winning at the Game of Office Politics (REPEAT) Workshop

Track: Best Of

Location: North 120 B-C

Facilitator: Jo Miller (Women's Leadership Coaching, Inc.)

Winning at the Game of Office Politics In every workplace there are smart, talented women going about their work, hoping to attract recognition. While they wait, their colleagues are getting ahead by politicking and schmoozing. Is it possible to navigate office politics without becoming a political animal? Topics include: Developing positive political savvy, How to understand the dynamics of power in your organization, The shadow organization map and Identifying the unwritten, unspoken 'rules of the game'.

Accountability and Metrics for Gender Diversity Panel

Track: Organizational Change

For: All

Location: North 120 D

Moderator: Jeanne Hultquist (Anita Borg Institute)

Panelists: Denise Menelly (Bank of America), Laszlo Bock (Google), Danielle Brown (Intel), Theresa Kushner (VMware)

What you measure you will change. To drive improvement in the representation of women in computing at all levels, a focus on metrics and accountability is a necessary element. Companies that participate in the Anita Borg Institute's Top Company for Women in Computing initiative are at the forefront of building accountable organizations that move the needle for women technologists. Leading companies share solutions to instill leadership accountability and measure progress.

Prof or Prez: Choosing Your Path Panel

Track: Faculty (Career Focus)

Location: North 121 A-C

Moderator: Andrea Danyluk (Williams College)

Panelists: Fran Berman (Rensselaer Polytechnic Institute), Jan Cuny (National Science Foundation), Maria Klawe (Harvey Mudd College), Mary Lou Soffa (University of Virginia)

Named Professor or Dean? ACM Fellow or Provost? Research Center Director or President? Academic Achievement vs. Administrative Leadership? Have you considered an academic administrative leadership position, but wondered if it's right for you? Four accomplished women – Fran Berman, Jan Cuny, Maria Klawe, and Mary Lou Soffa – will describe their own careers and how they navigated different options. Come learn about a range of career possibilities for Senior Academics.

Innovation - From Grassroots through Corporate Initiatives Panel

Track: Career

For: Early-Mid Career Industry

Location: North 122 A-C

Moderator: Connie Smallwood (CA Technologies)

Panelists: Anne Hardy (SAP Labs), Shannon Lucas (Vodafone Global Enterprise), Rahima Mohammed (Intel Corporation), Jeanette Zalder (Salesforce.com)

Innovation takes many forms, and companies both large and small struggle with empowering their employees to participate in innovation initiatives. Firms are offering concepts such as competitions, challenges and crowdsourcing to stimulate organic growth. Find out how everyone, everywhere can truly start and lead their own innovation initiatives.

Novel and Innovative Applications for IoT Presentations

Track: Internet of Things

For: ● ● ○

Location: North 124 A-B

A Software Architecture for the Management of Smart Buildings

Presenter: Larissa Suzuki (University College London)

This paper presents a Smart Building software architecture which enables engineers to manage assets and service requests

using augmented reality and mobile technologies. By using state of the art technologies and communication protocols, the proposed software architecture shifts buildings to a new state in which intelligence and integration is pervasive throughout its physical infrastructure. Results confirm the viability and efficiency of the proposed framework on designing and realizing smart buildings.

PiDoorbell - Home Automation with RaspberryPi

Presenter: Rupa Dachere (CodeChix)

Have you ever found yourself obsessively checking the UPS or FedEx tracking site to see if your package finally got delivered at your doorstep? Or wondered where your contractor/gardener was? Or wondered if your kids were in the "forbidden" section of the house? In this talk, I will show you how to rely on your handy-dandy smartphone to let you know when these events happen with photos/videos and timestamps!

An Insider's Look at the IoT in a Railroad

Presenter: Yujie Ying (Union Pacific Railroad)

Sensors are everywhere and seemingly everyone is innovating to collect, analyze and utilize data, including North America's largest railroad, a 152-year-old company that continually innovates as a transportation leader. Thousands of sensors monitor train health along 32,000 miles of track as the Internet of Things improves safety and efficiency at Union Pacific Railroad. This presentation provides an insider's look at the state-of-the-art railroad sensor technology, current initiatives and future challenges.

Deploying Your Application On Public Cloud Workshop

Track: Cloud Computing

For: ● ○ ○

Location: North 126 A-C

Presenters: Egle Sigler (Rackspace), Iccha Sethi (Rackspace)

Cloud computing is everywhere, but what are all of the different clouds and how can you use it? This workshop will clear up what all the different cloud buzzwords (server, image, snapshot, PaaS, IaaS, SaaS) are and how to start using them by deploying your own application to the public clouds.

Integrating Gaming and Fitness Panel

Track: GFX

For: ● ● ○

Location: North 127 A-C

Moderator: Amber A. Bachlani (salesforce.com)

Panelists: Ellen Yi-Luen Do (Georgia Institute of Technology & National University of Singapore), Miko Charbonneau (Microsoft), Katherine Sagona-Stophel (Sevencut.com)

What is the future of the developing relationship between game controllers, natural user interfaces, and wearable fitness devices? Devices such as the Wii Fit and Xbox Kinect have found their way into millions of homes. However, fitness peripherals for games have been around since the days of Atari and NES. We will discuss potential paths of wearable technologies, how they currently relate to gaming, and their possible future integration.

10:15 a.m. – 1:00 p.m.

Speed Mentoring

Track: Mentoring

For: All

Location: South Ballroom

During this interactive session, attendees share their professional backgrounds and business goals, allowing both mentor-mentee to network and connect along a common axis - be it along their technical interests or career aspirations.

11:00 a.m. – 2:00 p.m.

Senior Women in Computing Program (By Invitation only)

Track: Mentoring

For: Women technologists who are nearing the “C Suite” in their career advancement.

Location: West 101 A-C

The program kicks off with an interactive Q&A session with Lucille Mayer (Chief Information Officer /Managing Director, BNY Mellon) and Marie Wiecek (General Manager for the application & integration middleware Business Unit, IBM). This is followed by a networking lunch, a great way to connect with peers across organizations. A workshop on “Thought Leadership” by noted facilitator Denise Brosseau concludes this exciting experience.

12:00 – 1:00 p.m.

Invited Technical Speaker - Humans, devices and how they live together

Track: Internet of Things

For: All

Location: North Halls A-D

Presenter: Yoky Matsuoka (Nest Labs)

The first industrial robots were tools for assembling cars, later evolving to take on more important roles – including replacing human body parts – and capabilities, such as the ability to be controlled by the human brain. Now this technology is finding its way into products that we use every day, like the thermostat and smoke alarm. The opportunities and benefits are promising – from saving energy to saving lives.

Best of Programming Languages: Introducing Swift Playgrounds Presentation

Track: Best Of

For: ●○○

Location: West 301 B-C

Presenter: Michelle Six (Apple)

Join Apple engineers to learn about the new Playgrounds feature in Xcode 6 with Swift. Find out how to use Playgrounds to solve math equations and pre-flight your code, and learn some of the new syntax of the Swift programming language. No prior programming experience is required.

Data Science Lightning Talks

Track: Data Science

For: ●●○

Location: West 301 A

Trusting User Annotations on the Web for Cultural Heritage Domains

Presenter: Archana Nottamkandath (Vrije Universiteit Amsterdam)

Cultural Heritage institutions are digitising their collections on the Web. Providing meta information about these digital collections is an expensive process. Thus they are employing crowds to provide information. However, trust becomes an important issue. I will present different algorithms which can be used to determine trust of a user and their contributed information on the Web. These methods helped to predict quality of information with an accuracy of 80%.

Only Trust your Data: Experiment, Measure and Ship!

Presenter: Audrey Colle (Microsoft)

Don't trust your judgment, only trust your data! In today's connected world, measuring user and business metrics is not an option, it's a must have! Through examples of online advertisement and search, I'll cover what large scale controlled experiments are and how ground breaking features get shipped based on statistical analysis. You'll leave the talk with an understanding on how you can apply A/B testing to your business.

Making Sense of Nonsense: Graph Mining and Fraud Detection

Presenter: Sarah Powers (Oak Ridge National Laboratory)

The ability to extract meaningful information and predict patterns from rapidly increasing quantities of data drives business decisions in numerous areas. Large data sets are often transformed into graph-like structures to facilitate information mining, requiring new computationally fast and scalable algorithms. This talk will present some of the challenges associated with pattern discovery, as well as our experiences working in the area of healthcare fraud detection.

Power of Polka Dots – Using Data to Tell Stories

Presenter: Mridula (Mita) Mahadevan (Intuit Inc.)

Organizations collect and analyze a wide variety of data from various sources. However, there is more to data than deriving insights. Find out how you can use data to tell stories that engage. We introduce a framework to connect the 'dots' and reveal patterns in data. With case studies we demonstrate how the framework is applied across diverse datasets to discover latent relationships and create compelling data narratives.

Recipes of Your Favorite Restaurant

Presenter: Yichi Zhang (University of Michigan - Ann Arbor)

Today, data analysis and data visualization attract more attention than ever. The goal of this data manipulation project is to help users obtain recipes from their favorite restaurants. Users are also able to learn what ingredients are most likely used in different restaurants.

Big Data Anomaly Detection Using Machine Learning Algorithms

Yi Wang (Microsoft)

Today big-data telemetry is considered a key feature of any service offering. Understanding the operating state of a global service with low latency at any point in time and the ability to react fast to any deviation from normal operation is business critical as it directly maps to customer satisfaction. In this paper, we present how we detect anomalies using machine learning algorithms.

Breaking Language Barriers: Recent Successes and Challenges in Machine Translation

Presenter: Marine Carpuat (National Research Council Canada)

Machine Translation has achieved remarkable progress using multilingual big data as a Rosetta Stone. Statistical translation models estimated from large amounts of translated text can achieve surprisingly good translation quality. However, crucial errors remain, and limit the ability of machine translation to break language barriers for everyone, everywhere. This lightning talk will introduce key insights behind current approaches to machine translation, and highlight recent successes and remaining challenges.

Application of Advanced Machine Learning Techniques in Home Valuation

Presenter: Sowmya Undapalli (Intel Corporation)

One of the most Challenging question in the housing market is “what is the right price for a home?” Housing data is a combination of numerical and categorical data, noise variables, outliers, temporal dependencies etc. It is extremely challenging to analyze this kind of data (Especially because of the recent housing bubble burst). This paper attempts to overcome these challenges, and analyze housing data using advanced machine learning techniques.

UWiC Panel: Mentors, Champions, and Personal Board of Directors: How to Effectively Craft Your Network to Leverage Your Career

Track: Career

For: All

Location: North 120 A

Moderator: Karen Alkoby (Gallaudet University)

Panelists: Mary Fernandez (MentorNet), Analisa Balares (Womensphere), Gilda Garretón (Oracle Labs)

Cloud Computing Multiple Presentations

Track: Cloud Computing

For: ● ● ○

Location: North 120 B-C

Redefining the Data Center: White-Box Networking

Presenter: Jennifer L. Casella (Cisco Systems, Inc.)

The Open Compute Project (OCP), developed three years ago by Facebook is aiming at redefining the data center with increased efficiency and customizability, at reduced costs. From this project has emerged the concept that one can design and build

an open network, or bare-metal/white-box switch – a device that is “disaggregated and fully open, allowing for rapid innovation in the network space.”

Testing in Production: Key to Data Driven Quality

Presenter: Jyoti Jacob (Microsoft)

A/B Testing, Dark and Ramped Deployments, Analytics and Monitoring: Obscure ideas or Technology Reality? As faster shipping and rapid prototyping have become a truism for companies, the new reality is data driven quality and this new way of deriving quality assessments from your production is Testing in Production (TiP). This talk will present details on the different techniques citing specific real world challenges and discuss best practices for their usage.

Build Infrastructure: What it is and Why You Need It

Presenter: Na'Tosha J. Bard (Unity Technologies ApS)

Build & Infrastructure Engineering is a vital, but very often overlooked area of software development. This talk will explain what Build & Infrastructure Engineering actually is, why you need it, and how to get started implementing or improving build infrastructure within your own teams.

The Dynamics of Hyper-Effective Teams: How Inclusive Environments Drive Innovation

Organizational Change Workshop

Track: Organizational Change

For: All

Location: North 120 D

Facilitators: Lori Mackenzie (Clayman Institute for Gender Research), Caroline Simard (Clayman Institute for Gender Research)

From team projects to the next breakthrough product or movement, assembling and motivating the best team possible is critical to success. Hyper-effective teams harness the talent of every member to move beyond group think to maximize creativity and innovation. This interactive workshop is designed to have every person in the room take what's discussed and apply it to their work, their lives and their passions.

Funding Advice from the Inside Panel

Track: Faculty (Career Focus)

Location: North 121 A-C

Moderator: Christine Alvarado (University of California, San Diego)

Panelists: Valerie Florance (National Library of Medicine, NIH, DHHS), Rane Johnson-Stempson (Microsoft), Suzanne Iacono (National Science Foundation), Anne Condon (University of British Columbia)

Panel members representing various funding agencies will present recommendations for successfully competing for funding opportunities at their respective agencies. Topics to be discussed will include identifying opportunities, interacting with personnel at the agency, and writing a successful proposal. The panelists will help clarify differences in approaches taken by different agencies. Panelists and additional funding representatives will also answer questions in a follow-on session allowing individual feedback on funding ideas.

Security: Multiple Presentations

Track: Security/Privacy

For: ● ● ○

Location: North 122 A-C

Winning the Security Awareness Game

Presenter: Jennifer Henley (Facebook)

We've all heard the same slogans, "Security is Everyone's Responsibility", seen the same boring posters and newsletters and watched the same tired awareness videos only to never reference them again. How do you get employees to care about Security? This talk will focus on "Hacktober, Facebook's answer to Cyber Security Awareness Month. We'll cover: our approach, some hacks we've performed, incentives, and how we extend this event throughout the year.

When Android Apps Go Evil: An Overview of Mobile Malware Analysis

Presenter: Jing Xie (Lookout)

Mobile devices have become a necessity. The convenience and prevalence of mobile devices leads to a massive build up of personal information on them. This inevitably attracts the attention of malicious actors. Popular mobile platforms provide an unrestricted playground for anyone to develop applications, exposing users to the risk of malware attacks. I take a look at a real world Android malware & the process involved in tearing it down.

Various Approaches to Malware Detection and Analysis

Presenter: Nidhi Rastogi (Rensselaer Polytechnic Institute)

The presentation shall cover various statistical tools and methodologies used to analyze malwares in diverse environments. The approach towards digital and network forensics has evolved with focus shifting to newer domains in the past decade. The aim is to educate the audience about various attacks and defense mechanisms deployed through examples of some of the well-known malwares. The presenter's ongoing research work in threat modeling will also be shared.

GFX Lightning Talks

Track: GFX

For: ● ● ○

Location: North 124 A-B

Stop Recommending Bejeweled: Using Data Science to Broaden Game Audiences

Presenter: Jennie Lees (Close)

Game discovery is an evolving problem on mobile, but fortunately there are now large amounts of data available about games and the people who play them. This lightning talk details a passion project to apply data science to gameplay data, in order to understand the psychological factors behind someone's enjoyment of a game, including some of the data science methods used and challenges encountered.

Merge2-3D: Combining Multiple Normal Maps with 3D Surfaces

Presenter: Sema Berkiten (Princeton University)

We propose an approach to enhance rough 3D geometry with fine details obtained from multiple normal maps. We begin with rough alignment between the normal maps and geometry, and automatically optimize the alignments through iterative registration. We then map the normals onto the surface, correcting and seamlessly blending them together. Finally, we optimize the geometry to produce high-quality 3D models that incorporate the high-frequency details from the normal maps.

iGiselle: An Interactive Ballet Video Game

Presenter: Emilie St.Hilaire (University of Alberta)

This presentation summarizes the unique features of an innovative cross-disciplinary project being developed at the University of Alberta. The video game iGiselle features a Microsoft Kinect interface, an artificial intelligence planner that measures and responds to emotion modeling, and the work of real ballet dancers to create a convincing, immersive and interactive game experience.

Producing Emergence & Surprise in The Sims

Presenter: Lyndsay Pearson (Electronic Arts, Inc.)

The Sims offers a gameplay experience unlike any other game resulting directly from the methods used in creating a complex simulation. This discussion will focus on techniques used to drive a feature from ideation to implementation, how to focus an organic and emergence based game design, how to manage communication and change on a very large development team and how to evolve and innovate on a beloved franchise.

PhD Forum in HCI Track

Track: HCI

For: ● ● ●

Location: North 126 A-C

Building a Specialized Social Networking Service for Individuals with Autism

Presenter: Hwajung Hong (Georgia Institute of Technology)

SNSs can serve as an empowering tool for individuals with autism to seek help or advice across a variety of online contacts ranging from family and friends to anonymous crowdsourced volunteers. Harnessing the informal support online is an important value proposition for an SNS. This work demonstrates limitations of current features of SNSs and provides insight into how to better design the SNSs to support the individuals with autism.

Health Ecologies in Pregnancy mHealth: Designing Mobile 'Teachable Moments'

Presenter: Tamara Peyton (Pennsylvania State University)

Because of structural gaps in American medical care, newly pregnant lower-income women turn to the Internet and their social circles for health information and social support. Most

commercial sites give skewed information, and the advice of family and friends is often flawed. My research investigates the potential for a new HCI design paradigm for mobile health applications to act as an intervention agent that promotes medically sound pregnancy management practices.

Wait-learning: Leveraging Wait Time for Language Education

Presenter: Carrie J. Cai (Massachusetts Institute of Technology)

Second-language learners are often unable to find time for language practice due to constraints in their daily lives. We examine how brief moments of waiting during a person's existing social conversations can be leveraged for second language practice. We present and evaluate WaitChatter, an augmentation of instant messaging (IM) that supports wait-learning by displaying conversationally relevant foreign language vocabulary and micro-quizzes while the user awaits an IM response.

Why Women in Technology Should Patent Their Ideas Panel

Track: Career

For: Early-Mid Career Industry

Location: North 127 A-C

Moderator: Kaoutar El Maghraoui (IBM T.J. Watson Research Center)

Panelists: Bouchra Bouqata (GE Global Research Center), Dilma Da Silva (Qualcomm Research), Inna Dahlin (Mintz Levin), Peng Wu (Huawei US America Lab)

Understanding intellectual property protection and patents is a critical skill for anyone in the technical community who is passionate about innovation. A diverse group of women inventors will educate the audience about the value of patenting and emphasize the advantages of becoming an inventor, e.g., higher visibility and more career growth opportunities. The panel will address the need to inspire and empower more women in technology to patent their ideas.

2:15 – 3:15 p.m.

UWiC Speed Mentoring

Track: Career

For: Women of Color, Hispanic/Latina, Native American, and Disabilities women in computing

Location: North 120 B-C

Anita Borg Institute's Underrepresented Women in computing group is hosting a speed mentoring session for Women of Color, Hispanic/Latina, Native American, and Disabilities women in computing with a mission of promoting their representation and success in computing related fields.

Faculty: What Do You Mean It Isn't a Meritocracy? BoF

Track: Faculty (Career Focus)

Location: North 121 A-C

Facilitators: Morgan A. Mastrovich (Harvey Mudd College), Miranda Parker (Georgia Institute of Technology), Colleen Lewis (Harvey Mudd College)

Everyone everywhere has privilege. We can use our privilege to help create a more inclusive society and change societal patterns of oppression. Privilege is not an entitlement, but an opportunity to level the playing field. Join us for an interactive activity called a privilege walk where you can discover more about the interactions between your identity and society.

FILM FESTIVAL 2014: BIG DREAM (International Premiere)

From small town Iowa to the bustling streets of the Middle East, Big Dream immerses viewers in a world designed by and for the next generation of girls. Join us as we expose you to a 30 minute teaser of the film that will release in November at the Napa Valley Film Festival. Hear from the film Director, some of the women from the film, and learn how you can join the Big Dream movement back at your university, organization or company!

3:30 – 4:30 p.m.

Invited Technical Speaker: Using Data Science Powers for Social Good

Track: Data Science

For: All

Location: North Halls A-D

Presenter: Rayid Ghani (University of Chicago)

The past few years have seen an increasing demand for machine learning/data mining/data science powers. That's wonderful for us "data scientists" but wouldn't the world be so much better if we also used our computational and analytical powers for social good? In this talk, I'll give examples from work going on around the world including from the summer fellowship program we started at University of Chicago on "Data Science for Social Good" to show that there are a lot of important social problems in the world that could use our help - from helping students graduate high school to helping disaster victims to improving healthcare outcomes for patients.

It Doesn't Have to be Pink! Designing for Women BoF

Track: HCI

For: ● ○ ○

Location: West 301 A

Facilitators: Jessica R. Cauchard (Cornell Tech), Funda Kivran-Swaine (Rutgers University & Facebook), Sarah Esper (ThoughtSTEM, LLC), Yael Kliper (Independent)

While women represent around 50% of the population, influence 85% of consumer purchases in the US, most technologies have a male-focused design. Despite the recent emergence of products such as pregnancy monitoring mobile apps; there is a long way to go before women can feel fully

supported by technology. Bringing together expert panelists and interactive exercises, this BOF proposes an exciting way to discuss this issue.

Web Services: Grow, Refactor, Rebuild Panel

Track: Cloud Computing

For: ● ● ○

Location: North 120 A

Moderator: Alysha Voigt (Microsoft)

Panelists: Barbara Raitz (Airbnb), Ity Kaul (Twitter), Kelsey Stemmler (Pinterest), Neha Karajgikar (Square)

Redesigning a monolithic code base can become necessary for many reasons. Feature additions, user base growth, and changing business needs can all contribute to a reduction in programmer efficiency. Through real-world experiences from varying company sizes and project complexities, we will aim to educate and inspire software engineers to successfully navigate this daunting task.

Take Charge of Your Career Presentations

Track: Career

For: All

Location: North 120 B-C

Sidekick to Superhero: Taking Your Strengths Out of the Shadows

Presenter: Margaret Mitchell (American Express)

Has your career flatlined despite producing great results year over year? Mine did until I realized I was leading like a comic book Sidekick. The characteristics of a Sidekick are shockingly similar to common female workplace pitfalls. Superhero characteristics exemplify the often elusive gravitas women leaders need to succeed. By following five practical steps your strength can be brought out of the shadows to break through to the next level.

You are Not Your Imposter Syndrome

Presenter: Neha Batra (Floored, Inc.)

"I don't deserve this; I'm just lucky. I shouldn't bother; others are better. It's only a matter of time before they figure out I don't belong." Sounds like you? "Imposter syndrome" is a common phenomenon among countless professionals. Learn the strategies and tools to help rewire your thoughts with a few cues from behavioral cognitive therapy to beat your mental battles so you can focus on the ones that count.

Networking on the Introvert's Side of the Room

Presenter: Michele Marut (Intuit)

Networking is how employers fill most job openings and how well-connected professionals earn higher incomes. But with most networking activities geared towards extroverts, what can Introverts—who often find being around others draining—do? Many characteristics that define introverts also make them wonderful networkers. They're comfortable making meaningful one-on-one connections and they're excellent listeners. I'll share tools that have enabled me to grow my network without changing my introverted personality.

Accelerating the Advancement of Women Technologists Panel

Track: Organizational Change

For: All

Location: North 120 D

Moderator: Denise Gammal (Anita Borg Institute)

Panelists: Michelle Angier (eBay Inc.), Peggy Irelan (Intel), Susan Puglia (IBM)

Women technologists provide diverse perspectives, and research shows including women improves innovation and the bottom line. Lack of advancement is a primary reason women leave technical fields. Men are three times more likely than women to advance into senior technology roles. Panelists share proven solutions their companies are using - leadership programs, organizational structures, sponsorship, and gender intelligence - that are making big leaps forward to advance women technologists.

Faculty: Multiple Presentations

Track: Faculty (Career Focus)

Location: North 121 A-C

Mentoring in Faculty Job Satisfaction, Organizational Commitment and Turnover Intent

Presenter: Rimjhim Banerjee-Batist (Santa Fe College)

This study examined the relationships between mentoring as measured by psychosocial support and career support, and faculty protégés' job satisfaction, organizational commitment, and intent to turnover. A self-report survey instrument was administered to the protégés in a formal faculty mentoring program. Hypotheses were tested through correlational procedures. High degree mentoring was found to be positively related to higher job satisfaction, increased organizational commitment, and reduced intent to turnover.

AdvanceRIT: Transforming an Institution Using Data to Inform Creative Interventions

Presenter: Sharon Mason (Rochester Institute of Technology)

This presentation reports on the progress of the NSF funded ADVANCE Institutional Transformation project "AdvanceRIT," a multiyear, multifaceted data driven approach to increase the recruitment, representation and career advancement of women STEM faculty at Rochester Institute of Technology. An overview of the project rationale, organization, and goals will be presented along with the progress of programming and activities that are underway during the first two years of the project.

Security: Multiple Presentations

Track: Security/Privacy

For: ● ● ○

Location: North 122 A-C

Unsupervised Malware Classification: Bad Software Finding Its Own Kind

Presenter: Shannon I. Steinfadt (Los Alamos National Laboratory)

Ever-evolving malicious software (malware) makes it difficult for cyber security workers to keep pace with the approaches

and authors of that software. Program binaries are obfuscated, encoded, and packed to make reverse engineering, and thereby understanding basics about the malware, difficult. The author will present an overview of several different approaches using unsupervised learning to help classify malware into groups, helping to reveal malware families.

Eliminating and Analyzing the Causes of Fault Sensitivity Analysis

Presenter: Nahid Farhady Ghalaty (Virginia Polytechnic Institute and State University)

FSA is a new type of SCA that exploits the relation between the sensitive data and the faulty behavior of a circuit, the so-called fault sensitivity. This paper analyzes the behavior of different implementations of AES S-box architectures. We identify two factors behind FSA: the timing of fault sensitive paths, and the number of logic levels of fault sensitive gates within the netlist. We propose a systematic countermeasure against FSA.

Storytelling Security: Causal-Analysis Based Anomaly Detection For Proactive Cyber Defense

Presenter: Danfeng (Daphne) Yao (Virginia Polytechnic Institute and State University)

We give an overview of a new causality-based anomaly detection approach for detecting stealthy malware. The advantage of this approach is its proactive defense capability. We enforce benign properties in legitimate programs, as opposed to reactively searching for malicious patterns. The latter is commonly seen in existing security solutions. We design advanced program analysis and machine learning algorithm to reason about the trustworthiness of system events and programs.

GFX: Multiple Presentations

Track: GFX

For: ● ● ○

Location: North 124 A-B

Subsurface Scattering on Frozen

Presenter: Heather Pritchett (Walt Disney Animation Studios)

Subsurface scattering is a critical component in the rendering of natural phenomena, including snow. Existing subsurface scattering methods based on the point cloud approach presented challenges when dealing with discontinuous homogeneous environments. This presentation will present several techniques, including selective point cloud segmentation and filter masking, that were used to handle the subsurface scattering challenges on "Frozen".

Light Field Stereo Matching Using Bilateral Statistics of Surface Camera

Presenter: Can Chen (University of Delaware)

In this paper, we introduce a bilateral consistency metric on the surface camera (SCam) for light field stereo matching to handle significant occlusion. Our bilateral consistency metric is used to indicate the probability of occlusions by analyzing the SCams. Experimental results show that our technique outperforms both the state-of-the-art and the recent light field stereo matching methods, especially near occlusion boundaries.

Evaluation of Algorithms in Solving Contact Problems in Robotics

Presenter: Ying Lu (Rensselaer Polytechnic Institute (RPI))

We have watched the rising interest in simulation of robots, which is important for analysis and design in manufacturing. The dynamic model is in the form of differential Complementarity Problem (dCP), which is challenging to solve due to the nonsmooth property. Therefore, efficient algorithms in solving the dCP are important. This paper introduces state-of-the-art algorithms in solving the dCP problems and compare their performance with respect to accuracy and efficiency.

ACM Student Research Competition (Undergraduate) Finals

Track: Career

For: All

Location: North 126 A-C

ACM Student Research Competition (Graduate)

Track: Best Of

For: All

Location: North 127 A-C

Doing Good with Technology: Everywhere, Everyone BoF

Track: Internet of Things

For: ● ○ ○

Location: North 129 A-B

Facilitators: Aakriti Agarwal (Palantir Technologies), Joy Ming (Harvard University), Nishita Agarwal (Facebook), Sri Raga Velagapudi (Google)

Now, more than ever before, the state of technology has come together to make it easier to develop technical abilities no matter who and where you are. And this has given rise to a movement to do social good with technology, creating a huge impact. This session will make people aware of these possibilities and empower attendees to have a social impact through technology. Everywhere. Everyone.

3:30 – 6:15 p.m.

Speed Mentoring

Track: Mentoring

For: All

Location: South Ballroom

During this interactive session, attendees share their professional backgrounds and business goals, allowing both mentor-mentee to network and connect along a common axis - be it along their technical interests or career aspirations.

5:15 – 6:15 p.m.

2014 ABIE Technical Leadership Award Winner: Programming with Molecules

Track: Best Of

For: All

Location: North Halls A-D

Presenter: Anne Condon (University of British Columbia)

Bio-molecules do remarkable things in our cells, including information processing, communication and transportation. In this talk I'll describe how scientists can design and program simple DNA molecular systems with novel computational and functional capabilities, using chemical reaction networks as a programming language and DNA strand displacement systems as a physical embodiment of a program. Such programs enable us to organize matter at the nano-scale and can naturally interact with biological systems at the cellular level.

Everywhere, Everyone Can Make! Panel

Track: Internet of Things

For: ● ● ○

Location: West 301 B-C

Moderator: Hayley Ringle (Journalist)

Panelists: Mitzi M. Montoya (Arizona State University, ASU Research Park), Mark Hatch (Techshop), Brian David Johnson (Intel Labs), Katey Metzroth (SecondMuse)

This session will explore the open platforms and how these innovations will inspire the future generation in the way they make career choices and the current generation in the way they can adopt the open platforms for successful business practices. The session will also provide overview on the state-of-art and will be eye opening in the way the technology making can be done anywhere by anyone with minimal expertise.

The Fifth Nine: Diverse Perspectives on Achieving Extreme Reliability BoF

Track: Cloud Computing

For: ● ● ○

Location: West 301 A

Facilitators: Nori Heikkinen (Google), Trisha Weir (Google), Astrid Atkinson (Google), Jinnah Dylan Hosein (SpaceX)

Launch a pretty reliable website, and users are pretty happy; make a website so reliable that it becomes the universal ping test, and it becomes part of your brand. In this BOF, we will discuss wide-ranging topics in site reliability for an industry that measures uptime in numbers of 9's, and what it takes to achieve the mere 5 minutes of annual downtime allowed by 99.999% reliability.

Real World Data Science at Scale Panel

Track: Data Science

For: ● ○ ○

Location: North 120 A

Panelists: Surabhi Gupta (Airbnb), Alexandra Brasch (Amazon), Andrea Burbank (Pinterest), Ayse Naz Erkan (Twitter), Cristina Scheau (Facebook)

In this panel, we look beyond the textbook and discuss how to apply data science techniques to industry problems. Our diverse panel with 30+ years of combined experience will discuss

topics such as working with real-world data, scaling algorithms and infrastructure, and evaluation. The advice is intended to inspire the audience and give them a head-start on common challenges when beginning their data science careers.

Visibility Everywhere: Building Web/Social Media Presence for Women in Computing Panel

Track: Career

For: All

Location: North 120 B-C

Moderator: Ruthe Farmer (National Center for Women & IT (NCWIT))

Panelists: Susan Rodger (Duke University), A.J. Brush (Microsoft), Tracy Camp (Colorado School of Mines), Patty Lopez (Intel Corporation)

This panel focuses on building your web and social media presence and the presence of other women in computing. People you've never met will build their first impression of you through the web or via access to your social media. We will address the avenues available to provide the impression you seek. We will also discuss ways you can build your community, and make notable women in computing more visible.

The Dynamics of Hyper-Effective Teams: How Inclusive Environments Drive Innovation (REPEAT) Workshop

Track: Organizational Change

For: All

Location: North 120 D

Facilitators: Lori Mackenzie (Clayman Institute for Gender Research), Caroline Simard (Clayman Institute for Gender Research)

From team projects to the next breakthrough product or movement, assembling and motivating the best team possible is critical to success. Hyper-effective teams harness the talent of every member to move beyond group think to maximize creativity and innovation. This interactive workshop is designed to have every person in the room take what's discussed and apply it to their work, their lives and their passions.

Lightning Talks in HCI

Track: HCI

For: ● ● ○

Location: North 121 A-C

DECOR: Simplifying Responsive UI Design via Recommendation

Presenter: Rezwana Karim (Rutgers, The State University of New Jersey)

Designing visually appealing responsive UIs for multiple devices with different form-factors is challenging. Juggling through different design configurations and redesigning UI is laborious, time-consuming and demands a deep knowledge of both HTML/CSS and responsive patterns. I present DecoR, the first recommendation tool for creating responsive UIs. Given an initial UI design, user-specified design constraints and a list of devices DecoR can compute the desired recommendations in less than a minute.

InnoMotion: A Web-based Rehabilitation System Away from the Clinic

Presenter: Ni Yan (University of Michigan)

In the physical rehabilitation process, patients often perform routine exercises away from the clinic. This can undermine a patient's confidence and impede recovery. We propose InnoMotion, a system designed to aid in recovery away from the clinic. We conducted research and designed a web-based system that works in tandem with motion-sensing technology to analyze performance data and guide the patient through a successful recovery.

Not Just for Grownups: Empowering Middle Schoolers with Design Thinking

Presenter: Amanda Lyons (Intuit)

Citizen Schools partners with industry volunteers and public middle schools in low-income communities to provide an expanded learning day. Five Intuit employees leveraged their corporate Design for Delight culture to teach design thinking skills to middle school children. The kids applied their new HCI skills toward making positive change in their community. We will discuss these methods and what we learned from our students. Design thinking isn't just for grown-ups!

Computing Choreography: Applying Tech to Dance

Presenter: Alice A. Fuller (Box)

Technology has become increasingly ubiquitous in our daily lives. Over time, it's taken on new forms and influenced our day-to-day lives more deeply, fundamentally affecting the way we do nearly everything. Specifically, this talk will examine how technology has impacted an activity outside of the traditional applications of computing: dance.

It's More the Real Me: Appropriations of Tumblr by Fandoms

Presenter: Serena Hillman (Simon Fraser University (SFU))

We present a qualitative study of fandom communities on the social blogging platform Tumblr. We investigate why fandom users chose Tumblr over other social networking sites, their motivations behind participating in fandoms, and how they interact within the Tumblr community. Our findings highlight unique attributes and challenges of Tumblr fandom communities, and we discuss how these things might inform the design of existing or future social networking and blogging sites.

Achieving Leverage for Accessibility in a Large Organization

Presenter: Sarah Clatterbuck (LinkedIn)

Most technology organizations do not consider the accessibility of their products until they emerge from the startup phase as a category leader with a large and diverse audience. At that time, significant barriers exist to gaining momentum for accessibility efforts. I will discuss my experience at LinkedIn achieving leverage for accessibility efforts through a small, interdisciplinary task force, including methods employed by the task force to achieve objectives.

iAnon: Leveraging Social Network Data to Mitigate Symptoms of Cyberbullying

Presenter: Zahra Ashktorab (University of Maryland, College Park)

Some social networking sites, like ask.fm, enable abusive behavior by allowing users to send anonymous public messages. Under the guise of anonymity, users of these services can send abusive messages to one another without being accountable for their actions. According to the CDC, suicide from cyberbullying results in about 4,400 deaths per year. We introduce iAnon, a tool that aims to support victims of cyberbullying by providing anonymous supportive messages.

Security: Multiple Presentations

Track: Security/Privacy

For: ● ● ○

Location: North 122 A-C

Visualizing Privacy: Using (Usable) Short Form Privacy Policies

Presenter: Morgan Eisler (Lookout)

Do you understand privacy policies? Do your users? How about being more transparent with users, and increasing their trust in your product? Lookout created, user tested, and open sourced the code for a user-friendly, short form privacy policy based on the National Telecommunications and Information Administration's guidelines. Hear insights and explore Lookout's toolkit "Private Parts" and a few other solutions for creating your own usable, comprehensible short form privacy policy.

The Flattening of the Security Landscape and Implications for Privacy

Presenter: Shelly Bird (Microsoft)

Security technologies appear to be forming a (possibly) healthier form of device agnostic, self-service security, which can be used by everyone, everywhere. With the advent of self-service, the individual would more fully control, manage, and monitor their identity and data. This presentation will describe how the Internet and mobile is increasingly "flattening" the IT security landscape, the implications for developers, and real world methods for improving online software security.

The Data Brokers: Collecting, Analyzing and Selling Your Personal Information

Presenter: Runa A. Sandvik (Freedom of the Press Foundation)

Companies have gathered information about customers and potential customers for years, collecting names, addresses, and tracking purchases to later offer discounts and send catalogues. But today we are giving up information online without knowing that it's collected, analyzed and sold; our likes and dislikes, our closest friends, even our daily movements. This talk will investigate how your information is harvested and what you can do to protect your privacy online.

OpenCL: Unleash the Power of Heterogeneous Computing Workshop

Track: GFX

Location: North 124 A-B

Facilitators: Sushma Rao (Aptina Imaging), Sthiti Deka (Intel Corporation)

This workshop introduces Heterogeneous Computing using Open Computing Language (OpenCL). Problems ranging from imaging to speech-processing can be speeded up in OpenCL on GPUs, CPUs and other processors. We will use an example in image-processing to introduce the language features and describe how to tune for performance. Participants will leave with a good understanding of the OpenCL Framework and the ability to apply it to accelerate a variety of algorithms.

Taking Charge: Mapping Your Academic Leadership Path Workshop

Track: Faculty (Career Focus)

Location: North 126 A-C

Facilitator: Carol Muller (Stanford University)

As a tenured faculty member, what are your future goals? How can you build a path to reach them? This session will review common barriers to success in career advancement, and provide an opportunity to consider different types of leadership paths, learn why leadership development is often ineffective, explore core areas for developing needed skills and knowledge, and develop a framework for beginning or extending exploration of your own options.

Advancing the Work from Home Option BoF

Track: Career

For: All

Location: North 129 A-B

Facilitator: Lauren J. Schaefer (IBM)

Technical women choose to work from home for a variety of reasons. In this session, we will share tips for being successful remote employees, develop a community of work from home employees, and create a plan of action for making working from home a standard option for new employees so that women who are unable to relocate to new job opportunities are still able to take advantage of those opportunities.

Male Allies Focus Group

Track: Career

Location: West 101 A-C

Barb Gee, VP of Programs at the Anita Borg Institute (ABI), welcomes all male attendees of GHC to join her in a “listening session”. We would like to hear what it is like for men to be on the front lines of advancing gender equity issues and brainstorm ways that ABI can support our important male allies.

8:30 – 9:30 p.m.

FILM FESTIVAL 2014 – “Girl Rising” and “Makers”

Be inspired by the endless potential of young girls, and the endless creativity of fearless makers, movers and shakers—who all just happen to be women. The screening is followed by a panel discussion with the film makers.

PROGRAM SCHEDULE - FRIDAY, OCTOBER 10, 2014

Registration Opens (7:00 a.m. - 3:00 p.m.) (Lower Level Pre-function Lobby, North Building)
Career Fair (10:00 a.m. - 2:30 p.m.) (North Halls 1-6)

Awards Presentation

(Denise Denton, Richard Newton, ACM SRC Winners)
Keynote - Dr Arati Prabhakar, Director, DARPA
(North Halls A-D)

Break - Snacks provided (North Halls 1-6)												
	SOFTWARE ENGINEERING	GFX	WEARABLE Computing and Sensor Technology	MOBILE & AGILE	DATA SCIENCE	HCI	SECURITY	BEST OF	FACULTY (Broadening Participation)	CAREER	CAREER	STAY CONNECTED
7:00 a.m.	Registration Opens (7:00 a.m. - 3:00 p.m.) (Lower Level Pre-function Lobby, North Building) Career Fair (10:00 a.m. - 2:30 p.m.) (North Halls 1-6)											
8:30 a.m.	Awards Presentation (Denise Denton, Richard Newton, ACM SRC Winners) Keynote - Dr Arati Prabhakar, Director, DARPA (North Halls A-D)											
9:45 a.m.	Break - Snacks provided (North Halls 1-6)											
10:15 a.m.	Groovy, Grails, & Gr8Ladies Workshop ●○○ North 122 A-C	Presentations ●○○ North 127 A-C	Wearable Technologies for Healthcare Panel ●●● North 120 B-C	Scrum Master: Successful Practices Panel ●●● North 120 A	Latest Trends in Data Science Panel ●●● West 301 A	Presentations ●○○ North 124 A-B	Lorrie Faith Cranor Invited Tech Speaker (All) North Halls A-D	Future Trends: Deborah Estrin & Gabriella Levine ●●● West 301 B-C	Recruiting Women into Undergrad Computing Major North 126 A-C	Startup Presentations (All) North 120 D	Promote STEM Education (K-12) Panel (All) North 121 A-C	FILM FESTIVAL 2014: Anita Borg Documentary (All) North 229 A-B
11:15 a.m.	Break - Snacks provided (North Halls 1-6)											
12:00 p.m.	Building for Web, iOS, Android ●●● North 122 A-C	Bonnie Ross Invited Tech Speaker (All) North Halls A-D	Sensor Networks & App Presentations ●●● North 124 A-B	Presentations ●●● North 127 A-C	PhD Forum ●●● North 126 A-C	Empathy: It's Good for Business Panel ●●● West 301 B-C	Security: Part of the Development Process Panel ●○○ North 120 A	"Lean In" with ABI Lean In Circles (All) North 120 D	Denton, Social Impact & Newton Winners North 121 A-C	Lightning Talks (All) West 301 A	Change the World & Boost Your Career Panel (All) North 120 B-C	Systems Anita's vision has spanned the globe Get Involved (All) North 229 A-B
1:00 p.m.	Lunch Available for Purchase at the Convention Center (see GHC website for food options location)											
2:15 p.m.	Systems Lunch (West 301 D) Fran Allen Mentor Lunch (North 221 C) ACM-W Council Lunch (North 221 B) Faculty Lunch (North 222 A-C) Latinas Women In Computing Lunch (North 224 A-B) Lunchtime Table Topics (North Halls 1-6)											
Break											ABIE Change Agent Award Winners Panel (North Halls A-D)	
3:15 p.m.	Break - Snacks provided (various locations)											
3:30 p.m.	Linda Northrop Invited Tech Speaker (All) North Halls A-D	Gender-Inclusive Game Design Panel ●○○ West 301 B-C	Wearable Technologies in Fashion Panel ●●● West 301 A	Presentations ●●● North 124 A-B	Data Science in Social Media Analysis Presentations ●●● North 120 D	Effective Persons and Messaging Dev (BOF) ●○○ North 120 B-C	Presentations ●●● North 122 A-C	Best of ACM SIGMOD & SIGCHI ●●● North 126 A-C	Introducing Girls to Computer Science BoF North 129 A-B	UWIC Panel: Building Your Brand Panel (All) North 121 A-C	Creating Your Board of Directors Workshop (All) North 120A	Latinas BWIC LGBT ArabWIC (All) North 229 A-B
4:30 p.m.	Break - Snacks provided (various locations)											
5:15 p.m.	Presentations ●●● North 127 A-C	Computer Science & Art BoF ●○○ North 129 A-B	Wearable & Mobile Device Presentations ●●● North 120 D	Agile Release Managers BoF ●○○ North 120 B-C	Data Science in Health & Biology ●●● North 124 A-B	Presentations ●●● North 120 A	Presentations ●●● West 301 A	TBA West 301 B-C	Stereotype Threat in Education System BoF North 126 A-C	Everyday Global Workplace Challenges Panel (All) North 122 A-C	Presentations (All) North 121 A-C	AfricanWIC ChineseWIC FilipinasWIC IndianWIC TurkishWIC (All) North 229 A-B
6:15 p.m.	ABI Communities Meetup (West 301 D)											
6:30 p.m.	Friday Evening Celebration (South Ballroom)											
7:30 p.m.	Friday Evening Celebration (South Ballroom)											

KEY: ●○○ OVERVIEW ●○○ LEARN MORE ●●● IN-DEPTH

Everywhere. Everyone.

Friday wraps up GHC with a bang! We invite you to stay in touch with the Anita Borg Institute so you can continue getting inspiration and expertise from our network, and nurture the connections you've made here.

GET INSPIRED

We honor our A. Richard Newton Educator ABIE and Denice Denton Emerging Leader ABIE Award winners, Dr. Ayanna Howard and Tamar Solorio, who will also be speaking at noon.

Then we hear from trailblazer Arati Prabhakar, Director of the Defense Advanced Research Projects Agency (DARPA).

Be sure to check out the day's Invited Technical Speakers, Lorrie Faith Cranor and her cutting edge work in the field of Privacy/Security, Bonnie Ross, whose passion for gaming has landed her a role managing the Halo franchise, and Linda Northrop, Chief Scientist of the Software Solutions Division of Carnegie Mellon Software Engineering Institute.

GAIN EXPERTISE

Stimulate your mind with Friday's technical tracks tackling of-the-moment topics ranging from wearable technology and STEM education to agile and mobile.

The Best Of track features ABI Lean In circles, and talks by ACM SIG Award winners.

GET CONNECTED

Tap in to your new networks and learn how to make the most of these connections during the ABI Communities sessions, as well as lunch and Lunch Time Table Topics.

And don't forget to collect the 2 Cents a conference buddy has left for you!

HAVE FUN!

Want to see what's new in wearable technology? Fashion meets Tech at GHC's first ever Wearable Technology Fashion Show during the evening celebration. The theme *Everywhere. Everyone.* captures the inclusive, accessible spirit of the show which will showcase accessories that pack a punch both aesthetically and technologically.

Bust a move on the dance floor, and make your moves to Houston for GHC 2015!

Let's make this a night—and a conference—to remember. It is a Grace Hopper Celebration, after all!



Keynote at 8:30 am



Arati Prabhakar

Director, Defense Advanced Research Projects Agency

Arati Prabhakar is the director of the Defense Advanced Research Projects Agency (DARPA). Arati has spent her career investing in world-class engineers and scientists to create new technologies and businesses. Her first service to national security started in 1986 when she joined DARPA as a program manager. She then became the founding director of DARPA's Microelectronics Technology Office, working with a team of program managers whose efforts spanned these areas as well as optoelectronics, infrared imaging, and nanoelectronics.

In 1993, President William Clinton appointed her director of the National Institute of Standards and Technology. Arati moved to Silicon Valley in 1997, first as the chief technology officer and senior vice president at Raychem, and later vice president and then president of Interval Research. From 2001 to 2011, she was a partner with U.S. Venture Partners, an early stage venture capital firm. Arati identified, and served as a director for, startup companies with the promise of significant growth. She worked with entrepreneurs in energy and efficiency technologies, components for consumer electronics, and semiconductor process and design technology.

Arati received her PhD in applied physics and MS in electrical engineering from the California Institute of Technology. She received her BS in electrical engineering from Texas Tech University. She started her career as a Congressional Fellow at the Office of Technology Assessment. Arati has served in recent years on the National Academies' Science Technology and Economic Policy Board; the College of Engineering Advisory Board at the University of California, Berkeley; and the red team of DARPA's Defense Sciences Research Council. In addition, she chaired the Efficiency and Renewables Advisory Committee for the US Department of Energy. Arati is a Fellow of the Institute of Electrical and Electronics Engineers, a Texas Tech Distinguished Engineer, and a Caltech Distinguished Alumna.

Awards Presentation

Sponsored by  ORACLE Academy



Ayanna Howard

2014 Winner of the Grace Hopper Celebration A. Richard Newton Educator ABIE Award

Dr. Howard is a gifted robotics researcher, teacher, mentor, and community leader, who has inspired and encouraged countless underrepresented students in engineering and science. Her academic career is highlighted by her focus on robots that must interact with and in a human-centered world and her extensive outreach, mentoring, teaching, and research activities. Currently, Dr. Howard is the Motorola Foundation Professor in the School of Electrical and Computer Engineering at the Georgia Institute of Technology. She also serves as the Associate Director of Research for the Georgia Tech Institute for Robotics and Intelligent Machines. Prior to that, she served as Chair of the multidisciplinary Robotics Ph.D. program at Georgia Tech for three years from 2010-2013. From 1993-2005, Dr. Howard was also a robotics researcher at NASA's Jet Propulsion Laboratory.

Sponsored by  Microsoft



Tamar Solorio

2014 Winner of the Grace Hopper Celebration Denice Denton Emerging Leader ABIE Award

Tamar Solorio is an assistant professor in the Department of Computer Science at the University of Alabama at Birmingham. Prior to this position, she held a post-doctoral Research Associate position in the Department of Computer Science at the University of Texas at Dallas. She earned a PhD in Computer Science in 2005 from the Instituto Nacional de Astrofísica, Óptica, y Electrónica (INAOE), in Puebla, México. Her MS degree (2002) is in Computer Science from INAOE. Her BS degree in Computer Systems Engineering is from the Universidad Autónoma de Chihuahua, Facultad de Ingeniería, Chihuahua, México.

Tamar's research focuses on authorship analysis, child language assessment from narratives, mixed-language processing in social media, and information extraction from clinical records and patient generated data. Tamar has aimed to increase the number of underrepresented minorities in computer science through research projects that have a tangible societal impact. She is also committed to increasing collaboration among researchers across the Americas, and in particular to forge a stronger Natural Language Processing community in Latin America. In 2010 she co-organized the first workshop for young researchers on languages of the Americas.

Tamar has served as area chair for the Annual Meetings of the Association of Computational Linguistics, as a reviewer for several journals including Artificial Intelligence in Medicine and Natural Language Engineering, and as a PC member for more than twenty conferences. Her research is funded by the National Science Foundation and the Office of Naval Research. Tamar recently received a prestigious CAREER award for her research on authorship attribution.

Invited Technical Speakers

10:15 – 11:15 am

Lorrie Faith Cranor



Professor of Computer Science and of Engineering and Public Policy at Carnegie Mellon University

Lorrie Faith Cranor (<http://lorrie.cranor.org>) is a professor of Computer Science and of Engineering and Public Policy at Carnegie Mellon University where she is director of the CyLab Usable Privacy and Security Laboratory (CUPS) and co-director of the MSIT-Privacy Engineering masters program. She is also a co-founder of Wombat Security Technologies, Inc. She has played a key role in building the usable privacy and security research community, having co-edited the seminal book *Security and Usability* and founded the Symposium On Usable Privacy and Security (SOUPS), now in its tenth year. She also chaired the Platform for Privacy Preferences Project (P3P) Specification Working Group at the W3C and authored the book *Web Privacy with P3P*. She has served on a number of boards, including the Electronic Frontier Foundation Board of Directors, and on the editorial boards of several journals. In 2003 she was named one of the top 100 innovators 35 or younger by *Technology Review* magazine. She was previously a researcher at AT&T-Labs Research and taught in the Stern School of Business at New York University. Lorrie attended the first Grace Hopper Celebration in 1994 when she was a graduate student at Washington University in St. Louis.

12:00 – 12:45 pm

Bonnie Ross



Studio Head, 343 Industries

As Studio Head for 343 Industries, Bonnie Ross is responsible for managing all aspects of the Halo franchise. In 2008, she founded 343 industries, a new studio whose charter was to take over and foster the future of the Halo franchise. Bonnie's passion for Halo is in both the game and its universe, focusing 343 on creating an immersive sci-fi experience with Halo 4, *Forward Unto Dawn*, bestselling fiction novels, and a variety of Halo consumer products from apparel to collectibles. She brings 20 years of experience in the game industry, beginning her career as a producer working on PC sports games. She has worked on such titles as *Inside Drive*, *Pandora's Box*, *Zoo Tycoon*, *Dungeon Siege*, *Counter Strike*, *Gears of War*, *Jade Empire*, *Psychonauts*, *Mass Effect*, *Halo 3*, *ODST*, *Reach*, *Halo Anniversary*, *Halo Spartan Assault*, and *Halo 4*.

3:30 – 4:30 pm

Linda Northrop



Chief Scientist of the Software Solutions Division of Carnegie Mellon Software Engineering Institute (SEI)

Linda Northrop is Chief Scientist of the Software Solutions Division of Carnegie Mellon Software Engineering Institute (SEI) where she leads the technical agenda in architecture-centric engineering, software development and acquisition practices, measurement, software product lines, cyber-physical systems, advanced mobile systems, and ultra-large-scale systems. Linda is coauthor of the book *Software Product Lines: Practices and Patterns* and led the research group on ultra-large-scale systems that resulted in the book, *Ultra-Large-Scale Systems: The Software Challenge of the Future*. Linda currently collaborates with academic and industrial researchers and works with federal, energy, healthcare, and computational science agencies as well as private organizations in related sectors.

Before joining the SEI, she was associated with both the United States Air Force Academy and the State University of New York College at Brockport as professor of computer science, and with both Eastman Kodak and IBM as a software engineer.

She is an SEI Fellow, an ACM Distinguished Member, recipient of the 2014 IEEE Computer Society TCSE Software Engineering Service Award, the 2007 ACM SIGPLAN Distinguished Service Award, and the 2001 Carnegie Science Center Award for Information Technology.

10:15 – 11:15 a.m.

Invited Technical Speaker - The Continuing Quest for Secure and Usable Passwords

Track: Security/Privacy

For: All

Location: North Halls A-D

Presenter: Lorrie Faith Cranor (Carnegie Mellon University)

To combat both the inherent and user-induced weaknesses of text-based passwords, administrators and organizations typically institute a series of rules—a password policy—to which users must adhere when choosing a password. While a properly written password policy might provide an organization with increased security, it is unclear just what such a well-written policy would be, or even how to determine whether a given policy is effective. Although it is easy to calculate the theoretical password space that corresponds to a particular password policy, it is difficult to determine the practical password space. Users may, for example, react to a policy rule requiring them to include numbers in passwords by overwhelmingly picking the same number, or by always using the number in the same location in their passwords. In addition, some password policies, while resulting in stronger passwords, may make those passwords difficult to remember or type. This may cause users to forget their passwords or to engage in a variety of behaviors that might compromise the security of passwords. We seek to advance understanding of the factors that make following password policies difficult, to collect empirical data on password strength and memorability under various password policies, and to propose password policy guidelines to simultaneously maximize security and usability of passwords. To that end, our research group has conducted a series of online studies in which we asked tens of thousands of people to create passwords that comply with specific password policies. We developed an efficient method for calculating how effectively several password-guessing algorithms guess passwords and used it to analyze leaked password sets, passwords created for our studies, and the single-sign-on passwords used by over 25,000 faculty, staff, and students at our university. We investigated a variety of password policies, including those with requirements on length and character classes, as well as exclusion of blacklisted words. We also investigated system-assigned passphrases and the impact of various password meter designs on password security and usability. In this talk, I will describe our password research study methodology and highlight some of our most interesting findings. Our password research papers are available at <http://cups.cs.cmu.edu/passwords.html>

Best Of Future Trends Presentations

Track: Best Of

For: ●●●

Location: West 301 B-C

Small, n=me, data

Presenter: Deborah Estrin (Cornell NYC Tech)

Consider a new kind of cloud-based app that creates a picture of an individual's behavior over time by continuously, securely,

and privately analyzing the digital traces they generate 24x7 by virtue of mediating their lives with mobile and other digital technologies. These highly personalized, data streams can be analyzed to draw powerful inferences about an individual, and for that individual. I will discuss the opportunities and challenges of small data.

Robotics in the Future

Presenter: Gabriella Levine (Google[x])

Gabriella Levine, with Google[x] will showcase the projects and moonshot solutions that will solve some of the world's biggest challenges. Gabriella's talk will highlight her role as an engineer, integrating robotics and rapid prototyping into breakthrough technologies, showing how new tools and processes can change society.

FILM FESTIVAL 2014: Remembering Anita Borg Documentary

Track: Stay Connected

For: All

Location: North 229 A-B

Anita Borg is remembered by six people who knew and loved her: Alan Eustace, Maria Klawe, Miche Baker-Harvey, Robin Jeffries, Telle Whitney, Winfried Wilcke. They narrate in turn how she got into Computer Science, her vision, her leadership and her unique personal qualities that led to the creation of Systems, of what is now called the Anita Borg Institute, and the Grace Hopper Celebration of Women in Computing.

Latest Trends and Technical Challenges of Big Data Analytics Panel

Track: Data Science

For: ●●○

Location: West 301 A

Moderator: Amina Eladdadi (College of Saint Rose)

Panelists: Bouchra Bouqata (GE), Kaoutar El Maghraoui (IBM), Francine Berman (RPI), Deborah Agarwal (LBNL)

Today, Data is estimated to be created at 2.5 quintillion bytes/day from sensors, social media, images, etc. The ubiquitous availability of data has created a paradigm shift from information-poor to information-rich. This panel focuses on discussing new Big Data Analytics data-driven technologies, infrastructure, and regulatory structures to empower academia, industry and government. Furthermore, we will provide diversified views on use cases, deployment solutions, current challenges, and open research problems.

ScrumMaster: Successful Practices Panel

Track: Agile & Mobile

For: ●●○

Location: North 120 A

Moderator: Anu Saripalli (Symantec Corporation)

Panelists: Alida Cheung (salesforce.com), Jane Chiao (SAP America, Inc.), Michelle Teh (Thomson Reuters), Ellen Kilbourne (Microsoft Corporation)

A ScrumMaster is a challenging yet crucial leadership role that is key to agile practice. This panel will discuss challenges one

can expect on her ScrumMaster journey as the organization transforms to Agile and later matures, solutions to some of the common problems ScrumMasters face, and strategies that lead to success.

Designing Secure and Privacy-Aware IoT and Wearable Technologies for Healthcare Panel

Track: Wearable Computing

For: ● ● ○

Location: North 120 B-C

Moderator: Aarathi Prasad (Dartmouth College)

Panelists: Klara Nahrstedt (University of Illinois at Urbana-Champaign), Ruzena Bajcsy (University of California, Berkeley), Jung Ook Hong (Fitbit), Janet Campbell (Epic)

IoT and wearable technologies allow people to monitor their health and wellness, whether recovering from an illness or working towards a better lifestyle. This makes healthcare accessible and reduces cost, but exposes sensitive health information to various threats. In this panel we will discuss the different challenges related to usability, data visualization, security, privacy and availability that the healthcare IT community must consider when developing new technologies.

Career at a Startup - Multiple Presentations

Track: Career

For: All

Location: North 120 D

The New ABCs of Growing Your Business

Presenter: Elisa Camahort Page (BlogHer, Inc.)

You have a big idea, and you're ready to take the next step – one that requires money. Funding your business is complex and intimidating if you've never done it. Venture Capital is only one way to go, and it may not be the answer for you. Learn the new ABCs of growing a business – creating revenue, finding money, and most importantly, what type of money to take.

Shaping Culture Against a Backdrop of Rapid Growth

Presenter: Liz Crawford (Birchbox)

Three years ago I joined Birchbox, a small but fast growing startup without a technology team. I will share the most important lessons I have learned building and evolving our culture as our technology team has grown to more than 40 people and integrated an international acquisition.

My Life in Startups: Lessons Learned Along The Way

Presenter: Mary Holstege (MarkLogic Corporation)

Working in a startup can be challenging, rewarding, and frustrating. Being a technical woman in a small company can be empowering and isolating. Navigating your career as the company grows or fails requires some skill, luck, and perseverance. Staying technical has its costs and rewards as well. This talk will follow one woman's quarter century journey in the world of startups and what she learned along the way.

Volunteering to Promote STEM education (K-12) Panel

Track: Career

For: All

Location: North 121 A-C

Moderator: Fauzia Chaudhry (Thomson Reuters)

Panelists: Mary Fernández (MentorNet), Lindsay Hall (Google), Linda Kekelis (Techbridge), Michelle Clark (Union Pacific Railroad)

How can women with careers in technology work effectively to promote K-12 interest in STEM among girls and underrepresented groups? During this discussion, participants will learn from the experiences of a diverse panel of women who are engaged in a variety of mentoring, role model, and volunteer programs.

Groovy & Gr8Ladies Workshop

Track: Software Engineering

For: ● ○ ○

Location: North 122 A-C

Facilitators: Allison Figus (Gr8Ladies), Jennifer Strater (Altegra Health)

Groovy & Gr8Ladies is an interactive introduction to Groovy, a JVM alternative language. To participate, please complete the setup instructions found at bit.ly/graceHopperSetup prior to the workshop. Also, feel free to attend and just listen. An introduction to computer science course that covered loops, functions, and data types is recommended, but everyone is welcome. This workshop is organized by Gr8Ladies, an organization for women in the Groovy community.

HCI: Multiple Presentations

Track: HCI

For: ● ○ ○

Location: North 124 A-B

Digital City: Advancing the Online Presence for a Municipal Government

Presenter: Carolyn Pang (Simon Fraser University)

Learn best practices for designing an award-winning online presence by exploring the City of Burnaby's existing digital presence, including the website, SAP internal and external-facing portal, social media accounts, mobile applications, and interactive forms. We also present the findings and design implications from our mixed methods study that evaluated two award-winning government portals, the City of LA, and the City of Austin.

Accessible Web Sites Are Always Ugly and Other Myths

Presenter: Christine M. Ingalls (Intuit)

As the web becomes an integral part of life, web designers have a responsibility to make their sites accessible to all users including those with visual impairments. There is a perception among many designers that an accessible web site is visually unappealing. This is a very common myth, among many others. However, there are many simple ways to make a web site both accessible and visually appealing for all users.

Everyday Extremes: Designing Mobile for Anyone, Anywhere

Presenter: Caitlin Colgrove (Palantir Technologies, Inc.)

This talk will explore some of the unique challenges of designing mobile products for unconventional environments. Drawing on the speaker's experience working in the disaster response and local law enforcement fields, the talk will focus on general mobile design guidelines, user interaction suggestions, and intricate testing ideas. Both novice and experienced developers will emerge with a new way of approaching mobile design and development.

Strategically Recruiting Women into Your Undergraduate Computing Major Workshop

Track: Faculty (Broadening Participation)

Location: North 126 A-C

Facilitator: Leisa D. Thompson (University of Virginia/NCWIT)

This workshop will present research-based methods for successfully attracting women into an undergraduate computing major. Participants will be shown how to develop a comprehensive strategy for increasing the pipeline of high-achieving women in undergraduate computing programs using a "high yield in the short term" approach for recruiting. This approach encompasses strategies to help identify and evaluate a do-able and successful set of internal and external recruiting initiatives.

GFX: Multiple Presentations

Track: GFX

For: ● ○ ○

Location: North 127 A-C

Gamher: Creating a Game to Increase Girls' Interest in Programming

Presenter: Shahnaz Kamberi (DEVRY UNIVERSITY)

There is a serious shortage of women in the science, technology, engineering and math (STEM) fields with the decline of women in computer science (CS) being most alarming. This presentation covers a current dissertation study that involves the designing, developing and evaluating of an educational game prototype to help educate and influence girls' views on computer science. The outcome of the analysis determines whether the game developed had significant results.

Animation Programming Techniques for Music and Dance Video Games

Presenter: Jessica S. Scott (Harmonix Music Systems, Inc.)

Character animation is an important part of many modern video games. This talk will cover general techniques for animation programming as well as the specific challenges of animation for music video games, using examples from the development of games in the Rock Band and Dance Central franchises.

12:00 – 1:00 p.m.

Invited Technical Speaker - Technology and How It Is Evolving Storytelling in Our Entertainment Experiences

Track: GFX

Location: North Halls A-D

Presenter: Bonnie Ross (343 Industries)

In the pre-industrial age, there were two methods of telling tales — words and pictures. But in the technological age, stories spill into every aspect and facet of our lives; narrative leaps between nations, and stories span devices, media and demographics. The entertainment industry stands at the crossroads of where those stories intersect, how those stories are told and who tells them. Technology has opened up new ways of curating passive and interactive storytelling across different entertainment mediums. Drawing on her decades of experience managing transmedia and entertainment franchises, Bonnie Ross will highlight the opportunities technology and connectedness give us to craft amazing entertainment experiences.

Systems: Anita's vision has spanned the globe - Get Involved BoF

Track: Stay Connected

For: All

Location: North 229 A-B

It's important to know that you are not alone. Systems is a forum for all women involved in the technical aspects of computing. The list has over 4,000 members from at least 54 countries around the world. We welcome the participation of women technologists of all ages and at any stage of their studies or careers. Systems is the world's largest email community of women in technical roles in computing

Empathy: It's Good for Business! Panel

Track: HCI

For: ● ● ○

Location: West 301 B-C

Moderator: Jenn Anderson (Intuit)

Panelists: Beth Lingard (AnswerLab), Nancy Dickenson (Dickenson LLC), Bethany Pickard (Google), Hilary Karls (TaskRabbit)

What makes a company design-driven? In part it is establishing a culture of design where deep empathy and understanding for customers is built into the process. These panelists represent all aspects of product development and will share their success stories of how "walking in your customers' shoes" created positive impact for their teams and the end product. You'll be inspired to make your own company more design-driven.

Lightning Talks in Career Track

Track: Career

For: All

Location: West 301 A

How to Build Your Online Brand to Maximize Hiring Potential

Presenter: Loni Spratt (Entelo)

In 2014, we live so much of our professional lives online. A resume can't paint the full picture of someone's qualifications or personality. People blog to show thought leadership on Quora.

They contribute open-source code to Github. Tech recruiting specialist Loni Spratt will cover why it's critical to build a stellar online reputation, along with how to optimize your online presence for maximum hiring potential.

Starting Salaries 101: How to Ask and How to Answer

Presenter: Matt Wallaert (Microsoft)

Despite much publicity, the gender wage gap continues to remain prevalent in tech and research suggests the inequity starts in the very first job. In this talk, GetRaised cofounder and behavioral scientist Matt Wallaert talks about specific strategies new hires can use to make sure they get fair pay and how senior women can respond in these negotiations.

Overcoming Bias and Owning Your Career

Presenter: Tamar Bercovici (Box)

We all face bias in our lives. The question is how to not let it define us, and stop us from achieving our goals. In this talk I will share approaches that have worked for me in overcoming bias and owning my career, and, in particular, I will provide some practical and actionable advice on how to overcome bias as you establish yourself on a new team.

Stay Curious: Keep Your Career on Track with Proactive Motivation

Presenter: Annie Gladding (Intel Corporation)

No matter where you are in your career, you will come to a point when you realize you aren't as excited as you once were about what you're doing. The key to remaining happy and productive is catching this at the right time and taking action. Here are the lessons I've learned in my own career and through coaching others in my 15 years of managing in IT at Intel.

Women of Color Need a Place at the Table Too

Presenter: Angie Kamath (Per Scholas)

While statistics on gender diversity in IT are troubling IT-stats on women of color, specifically black and Hispanic, are abysmally low across the country. Learn about strategies to diversify the IT workforce in partnership with local community organizations, local government, and community colleges. 3% is the current estimate of women of color in the IT field- let's change this and learn firsthand how it can be done.

Building the First Women in Technology Community in Peru

Presenter: Andrea Villanes (Women in Technology Peru)

Building the first community of women in technology in a developing country has been a fascinating experience. A team of four women faced challenges such as no internet access during the events, power blackouts, and lack of companies' sponsorships. The effort required the support of fellow technology communities. A total of 15 events, 350+ attendees, 54 volunteers, a membership of 745 persons, and winners of the Pass-It-On award.

"Lean In" with ABI Lean In Circles Workshop

Track: Best Of

For: All

Location: North 120 A

Facilitators: Rachel Thomas (Leanin.org), Barbara Gee (Anita Borg Institute)

Last year, ABI and the Lean In Foundation announced a strategic partnership and new program: ABI Lean In Circles. ABI Lean In Circles are specifically geared towards supporting women in technical careers, or women contemplating technical careers. Since that announcement, 59 circles involving 735 women have been formed. This session will highlight successful ABI Lean In circles and provide session participants with an engaging experience that demonstrates the power of meeting in groups!

Change the World and Boost Your Career Panel

Track: Career

For: All

Location: North 120 B-C

Moderator: Julie Clugage (Team4Tech)

Panelists: Jeni Panhorst (Intel Corporation), Andrea Ramirez (VMware), Terilyn Monroe (Intuit), Sarah Clark Schiff (Facebook)

International skills-based service programs provide technology professionals with a way to experience consumer needs in emerging markets, while enjoying the satisfaction of expanding opportunities for local partners and growing as leaders in the process. The panelists will share what they have learned from participating in immersive, skills-based service projects in Kenya, Tanzania and Vietnam over the past year. Attendees will be empowered to pursue their own service-learning opportunities.

Making Security a Part of Your Development Process Panel

Track: Security/Privacy

For: ● ○ ○

Location: North 120 D

Moderator: Astha Singhal (Salesforce)

Panelists: Parisa Tabriz (Google), Leigh Honeywell (Heroku), Justine Osborne (Square)

Technology companies of all sizes face a variety of challenges managing engagement between security and development teams. The problems faced differ based on factors like company size, security process maturity, growth rate, product, industry, and development methodologies. This panel is aimed at discussing those problems and innovative solutions that are custom-built for different company "profiles".

ABIE Social Impact Award Winner, Denice Denton & Richard Newton Award Winners

Track: Faculty (Broadening Participation)

Location: North 121 A-C

The ABIE Award winners talk about the work that they have done in broadening participation and getting more students interested in computer science.

Consistency in a Fragmented World: Building for Web, iOS, Android Panel

Track: Software Engineering

For: ● ● ○

Location: North 122 A-C

Moderator: Tracy Chou (Pinterest)

Panelists: Nishita Agarwal (Facebook), Madelin Woods (Square), Sophia Westwood (Quip), Brina Lee (Instagram)

It's not good enough anymore to build your app just for one platform. At some point, most companies need to build for web, iOS, Android, and more, across desktop, tablet, and mobile form factors. What are some good strategies for achieving consistency of user experience and the underlying codebases? Learn about the different ways that product and engineering teams at Facebook, Pinterest, Square, Instagram, and Quip are solving this problem.

Wireless Sensor Networks and Applications: Multiple Presentations

Track: Wearable Computing

For: ● ● ○

Location: North 124 A-B

On Constructing Reliable Topology in Wireless Sensor Networks

Presenter: Israat Tanzeena Haque (University of Alberta)

Wireless Sensor Network (WSN) has a wide range of applications, where sensors gather data for sinks (collectors). Reliability is a crucial issue in WSN to ensure service in case of down links along the routes from the sensors to the sink. We present a set of reliable topologies to allow users to select an application specific topology to guarantee information reliability and optimize node degree, path length, or energy consumption.

Sensors in Motion

Presenter: Janet Schneider (Microsoft)

"Sensors in Motion" is a beginner's overview of inertial motion sensors, and in particular accelerometers. Inertial motion sensors are ubiquitous in smartphones, tablets, and a variety of wearable computing devices. The key to the usefulness of internal motion sensors is the algorithms that analyze the data. This talk will show how you can collect data from your phone and play around with detecting motion and gestures.

Building Internet of Things over Software Defined Wireless Sensor Networks

Presenter: Cíntia Borges Margi (University of São Paulo)

In our current research, we leverage from the software-defined networking paradigm to reduce complexity in Wireless Sensor Networks configuration, management and retasking. We explore the use of an architecture with distributed and hierarchical controllers, where local controllers leverage from local information to reply to nodes in its cluster area, and a global controller oversees the whole network, exchanging information with local controllers. Security and privacy are considered integral requirements.

PhD Forum in Data Science Track

Track: Data Science

For: ● ● ●

Location: North 126 A-C

Models for Dynamic User Preferences and their Applications

Presenter: Komal Kapoor (University of Minnesota, Twin cities)

Preference models are commonly used for designing recommendation models. A significant challenge for such systems is to cater to users with changing interests. My thesis addresses this problem, by proposing a framework for modeling time and history dependent dynamics in preferences, using insights from studies in human psychology and those gained from the exploration of real world temporal preference data. We use novel analysis techniques also developed in this work.

Language Design and Implementation for Computational Modeling, Simulation and Visualization

Presenter: Vishakha Sharma (Stevens Institute of Technology)

We design BioScape, a high-level modeling language for the stochastic simulation of biological and bio-materials processes in 3D space. We extend BioScape with fully parallel semantics, Parallel BioScape. We define BioScape-L, an extension of BioScape with programmable locations. We build computational models using BioScape; BioScape-L; and SPiM; predecessor of BioScape to study pH-triggered antibacterial coatings and bifunctional surfaces; intracellular viral traffic; JAK-STAT pathway and effects of counterfeit components, respectively.

Energy Aware Mapping of Applications in Heterogenous Multicore Environment

Presenter: Madhurima Pore (Arizona State University, Tempe)

We develop a scheme that can leverage the different application types to run on heterogeneous platforms to minimize the energy consumption without violating performance constraints. Application's performance and interference amongst applications need to be modeled for each platform. These models are used to optimally map the application on the most suitable multicore platform such that the performance requirement of the application is satisfied and the energy consumption is minimized.

Agile & Mobile: Multiple Presentations

Track: Agile & Mobile

For: ● ● ○

Location: North 127 A-C

Building Resiliency within Mobile Commerce Apps

Presenter: Sonali Kamat (Flipkart Internet Private Limited)

This talk takes a holistic view at what it takes for your mobile application to be highly available and responsive. It will go over the basic principles and controls you need to provision for within your middle-tier architecture. It discusses the tradeoffs you need to consider for your user to have a reliable experience despite erratic cellular networks even as you rapidly add features to your mobile application.

Scaling Mobile Development

Presenter: Stephanie Shupe (Lookout)

You built a mobile app and placed it in the market. Now it's a hit. Your sweat and coding chops have gotten you this far, but you now need to scale development. What tools and processes do you need to take it to the next level as the engineering team grows? This talk will highlight Lookout's mobile development tools and processes as an example of how to scale mobile apps.

Mobile Security for Dummies: Designing for Non-Experts with Human-Performance Modelling

Presenter: Ann-Marie Horcher (Nova Southeastern University)

Ann-Marie Horcher is a PhD student in Information System Security and HCI at Nova Southeastern University. Previously an information architect at Dow Corning, Ann-Marie believes the right user interface makes any job easier, even security. For two decades she identified strategy and implemented global technology, including SAP. Her dissertation research focuses on usable security and privacy for mobile devices, including security usability metrics and security usability for the elderly.

2:15 – 3:15 p.m.

ABIE Change Agent Award Winners Panel

Track: General Sessions

For: All

Location: North Halls A-D

Moderator: Megan Smith (Google [x])

Panelists: Barbara Birungi (Women in Technology Uganda), Durdana Habib (IEEE), Judith Owigar (Akirachix)

This is a Plenary session featuring the 2014 ABIE Change Agent Award Winners and a returning Change Agent Award winner.

3:30 – 4:30 p.m.

Invited Technical Speaker - Trends and New Directions in Software Architecture

Track: Software Engineering

For: All

Location: North Halls A-D

Presenter: Linda Northrop (Carnegie Mellon Software Engineering Institute)

Software architecture has enormous influence on the behavior of a system. For many categories of systems, early architectural decisions can be a greater influence on success than nearly any other factor. After more than twenty years of research and practice, the foundations for software architecture have been established and codified, but challenges remain. Among other trends, increased connectivity, a shift to the cloud and to mobile platforms, and increased operational and market tempos have precipitated the need for changes in architectural practices and decisions. This talk shares a perspective on the trends influencing the need for change, the related architectural challenges, and the applicable research and practices.

Latinas in Computing, Black Women in Computing, LGBT, Arab Women in Computing

Track: Stay Connected

For: All

Location: North 229 A-B

New Perspectives on Gender-Inclusive Game Design Panel

Track: GFX

For: ● ○ ○

Location: West 301 B-C

Moderator: Elisabeth Gee (Arizona State University, Tempe)

Panelists: Gail Carmichael (Carleton University), Gillian Smith (Northeastern University), Carolee Stewart-Gardiner (Kean University), Kate Compton (University of California, Santa Cruz)

This panel will address persistent stereotypes about women as gamers and game designers, with the goal of illuminating alternative perspectives on topics such as "girl games," the pros and cons of using game design as a means of introducing young people to computer science, and whether gender should be a factor in the design of games for education as well as entertainment.

The Future of Wearable Technologies in Women's Fashion Panel

Track: Wearable Computing

For: ● ● ○

Location: West 301 A

Moderator: Emily M. Jackson (Salesforce.com)

Panelists: Clint Zeagler (Georgia Institute of Technology), Kate Boeckman (Thomson Reuters), Roger Wood (ART+DATA)

The potential for wearable technology is seemingly limitless, yet most of the products available now are only fitness related or an extension of your mobile device. Let's hear ideas and research that go beyond wristbands. We'll discuss what devices we want to use and how we want them to look. We'll hear the opinions of the panelists and what they've contributed and explore the future of wearables in women's fashion.

Creating Your Own Board of Directors Workshop

Track: Career

For: All

Location: North 120 A

Presenter: Stacey Sargent (Connect Growth and Development), Jan Gelman (Jan Gelman + Associates)

Having both success and satisfaction at work depends on who you surround yourself with inside and outside your company. The key is to have the right people, in the right roles, for the right purposes. This session helps you build a Board of Directors that sets you up for success, including people who help develop your career, challenge you to innovate and grow, and support you in all your life.

Engaging the Audience of One: Effective Persona and Messaging Development BoF

Track: HCI

For: ● ○ ○

Location: North 120 B-C

Facilitators: Tashira Gibbs (IBM), Karen Kersting (IBM)

This interactive workshop will equip participants with tools for identifying and creating value for target audiences. Through

interactive discussion and activities, two tenants of user-centered design will be explored: 1. Persona Development. Who are my highest potential segments? What are their values, needs, desires and motivations? 2. Messaging Strategy – What types of content and messaging will compel customers into action? How do tone and voice grab attention?

Data Science in Social Media Analysis: Multiple Presentations

Track: Data Science

For: ● ● ○

Location: North 120 D

Lexicon-Based Sentiment Analysis Using the Most-Mentioned Word Tree

Presenter: Bo-Hyun Kim (HP Vertica)

Sentiment analysis of entities, such as products, is a key tool in understanding public opinion. Twitter imposes a 140-character Tweet limitation, reducing ability to analyze sentiment using a standard lexicon-based approach. The enhanced approach proposed increases accuracy by running the analysis for the whole tweet. We identify the most-recurrent word associated with the entity, calculate its sentiment score then add to the original score with weights.

Big Data Products: How do I start?

Presenter: Divya Jain (Box Inc.)

Big Data Products are bringing a new wave of innovation in the industry. Everyone is expected to have built-in analysis and intelligence in their product. With tons of tools and technologies available, it is often a daunting task for someone who is just venturing into this space. This talk will explain the landscape of various technologies and how to evaluate them by building a simple big data machine-learning app “dinnerLite”.

How Do Celebrities Use Twitter? A Social Media Clustering Study

Presenter: Christina Zou (Twitter)

Wrangling with the immense datasets gathered by companies like Twitter poses unique challenges. I will walk the audience through a real-life data science project from start to finish: how do influential users use Twitter? As I explain a K-means clustering solution to this problem, I'll share a sample of the technical challenges data scientists face, and discuss 6 important insights that distinguish great from good data scientists.

UWiC Panel: Building Your Brand: Positioning Yourself for Promotion and Progression Panel

For: All

Track: Career

Location: North 121 A-C

Panelists: Kathy Pham (Google), Loretta Love Huff (Emerald Harvest Consulting), Ann Gates (University of Texas, El Paso)

Join the panelists as they offer advice on how to position yourself and build your brand.

Security: Multiple Presentations

Track: Security/Privacy

For: ● ● ●

Location: North 122 A-C

Doppelganger Finder: Taking Stylometry To The Underground

Presenter: Sadia Afroz (University of California, Berkeley)

Stylometry is a method for identifying anonymous authors of anonymous texts by analyzing their writing style. We explore stylometric methods' performance on four leaked multilingual underground cybercriminal forums. We show how to identify cybercriminals using stylometry and propose a new method, Doppelganger Finder, to discover multiple identities (“doppelgangers”). We identified at least 10 previously unknown doppelgangers and discovered the purpose and use of multiple identities in cybercrime networks.

Facebook's Approach to Privacy By Design in Product Development

Presenter: Raylene Yung (Facebook)

When it comes to everywhere and everyone, Facebook has a big opportunity to impact many people's lives around the world. As such, it faces unique technical challenges around protecting information people share with others on the site, while also balancing engineering needs with privacy constraints. This talk gives an overview of how Facebook ensures that privacy and permissions checks are incorporated throughout both the code base and user-facing product experience.

From Phish to Phraud

Presenter: Kathryn Seymour (Bank of America)

In this presentation, I will highlight the growing importance of advanced security data analysis and how it can be used to create stronger defenses and pro-active monitoring. I will demonstrate how to start with a known phishing attack, link it to compromised customers, use suspicious transactions to harvest malicious IPs and other indicators and then use that information to trace back to malicious actors.

Agile & Mobile: Multiple Presentations

Track: Agile & Mobile

For: ● ● ○

Location: North 124 A-B

Mobile UI Performance: Dealing with Lots of Data

Presenter: Tina Wen (Dropbox)

Data-heavy apps, such as Dropbox's Carousel photos app, often face big performance challenges as the UI constantly needs to load large amounts of data and react to updates. This talk will guide you through our solution, which uses deltas in the datasets to incrementally update UI. Because we support both iOS and Android, much of our code was written in a shared C++ library, which will also be discussed.

Mobile Application Development at LinkedIn

Presenter: Aarthi Jayaram (LinkedIn Corporation)

“Mobile First” is the mantra these days. How do you build high quality mobile applications on multiple platforms (iOS, android, web), multiple devices, in a fast paced environment while supporting millions users? At LinkedIn through trial and error we have figured out a way that works well for us. We hope our approach will help developers building mobile applications at scale.

Rewrite/Refactor with Agility with Today's Tech-Trends

Presenter: Ananya Sen (Intuit)

Technical debt is expensive. So Refactor/Rewrite are critical decisions that can drive customer delight. While modularity and code coverage are important drivers for measuring the opportunity cost here, current Technical trends are also changing the dynamics of this strategic undertaking. I will focus on such key drivers; and will exemplify, with my experience and some case studies, different strategies of refactoring and rewrite adopted to deliver customer value with agility.

Best of ACM SIG's: SIGMOD & SIGCHI Presentations

Track: Best Of

For: ● ● ●

Location: North 126 A-C

Inflection Points in Research and Teaching

Presenter: Jennifer Widom (Stanford University) representing SIGMOD

Several noteworthy "inflection points" have occurred during my approximately 30 years of computer science research and 20 years of teaching. On the research side, I'll recount some fruitful early collaborations (and competitions), and I'll explain a set of principles that have become career-long basic tenets of my approach to research. On the education side, I'll revisit the unforgettable experience of creating and teaching one of Stanford's first free online classes, launching the "MOOC" revolution going strong today.

Empowering the People

Presenter: Margaret Burnett (Oregon State University) representing SIGCHI

If ordinary end users could create their own software (and they can!), why would they? What would help them enjoy it, thrive with it, and accomplish more of what they want? And in answering these questions, can we help even professional programmers? In this talk, I'll showcase some of my HCI research projects and how they can help everyone to better harness their own powers in working with software.

From San Francisco to Soweto, Introducing Girls to Computer Science BoF

Track: Faculty (Broadening Participation)

Location: North 129 A-B

Facilitators: Omoju Miller (University of California, Berkeley), Oluwole Solana (Thoughtworks/University of Cape Town)

This BOF session is an informal discussion on the cross-cultural challenges faced when introducing girls to Computer Science through industry supported after school programs. In particular, a cross-cultural comparison of Black Girls Code and Technovation challenge after school programs in Johannesburg South Africa and in San Francisco, California, United States of America.

5:15 – 6:15 p.m.

African Women in Computing, Chinese Women in Computing, Filipinas Women in Computing, Indian Women in Computing, Turkish Women in Computing

Track: Stay Connected

For: All

Location: North 229 A-B

Security: Multiple Presentations

Track: Security/Privacy

For: ● ● ○

Location: West 301 A

Interesting Problems in Cryptography

Presenter: Mariana Raykova (SRI)

This talk will be an introduction of the research area of cryptography to the general audience. It will focus on several problems motivating some important cryptographic primitives that will be presented through examples. The goal of the talk is to acquaint students with interesting problems in cryptography and inspire them to learn more about the field rather than present technical details.

Practical Fully Homomorphic Encryption For Data Privacy

Presenter: Giselle Font (NIC Chile Research Labs, University of Chile)

Fully Homomorphic Encryption, introduced as privacy homomorphism by Rivest et al., in 1978 allows for arbitrary operations on encrypted data. Private queries over untrusted servers is a sample application. The first scheme was proposed by Gentry in 2009, the first implementation in 2011, and the first open source library in 2013. The session will provide a practical overview of the tool, considering security, performance and applications as a privacy technology.

HCI: Multiple Presentations

Track: HCI

For: ● ● ○

Location: North 120 A

Hitting Authentication on the Nose: Using the Nose for Smartphone-Security

Presenter: Ann-Marie Horcher (Nova Southeastern University)

Interaction with a touchscreen interface requires a pointer to target the desired interaction. The effort normally requires the use of two hands; one to hold the device and the other to manipulate the device. This study looks at the option of using the nose as both a stylus and a valid means of authentication to address such situations where typical hand-eye manipulation of touchscreen security technology is not desirable.

Distractedly Intimate - Your Users on Mobile

Presenter: Cate Huston (Google)

Building for mobile is not just a change of form factor, and web versus native is one of the least interesting design questions to answer. How do we build for the user's most intimate and most loved device, and allow for the intermittent, partial attention? When everyone has a device this powerful on them all the time, everything changes. Let's talk about what that means.

Web Accessibility for Everyone

Presenter: Ramya Sethuraman (Facebook)

This talk will introduce web accessibility and make a case for ensuring your products work for the disabled. It covers three core areas: introduction to web accessibility, how software companies can integrate accessibility into their process/products and how each of us can become ambassadors to make accessibility mainstream. The talk will also touch on how introducing accessibility to students can build more empathy and nurture accessibility for the future.

Agile Release Managers BoF

Track: Agile & Mobile

For: ● ○ ○

Location: North 120 B-C

Presenter: Ellen Kilbourne (Microsoft Corporation)

Agile teams ship often. Rapid fire releases wreak havoc on traditional release systems built when submissions came once every other year or so when waterfall methodologies ruled. Is it possible to shrink the cost of release management to zero in an agile environment while maintaining the same quality and compliance standards afforded by waterfall? How are different agile teams handling the increasing number of releases staying sane?

Wearable and Mobile Devices: Multiple Presentations

Track: Wearable Computing

For: ● ● ●

Location: North 120 D

A Systematic Approach to Design and Develop Wearable Devices

Presenter: Priyanka Bagade (Arizona State University)

The research focuses on designing wearable computing devices and mobile platforms while considering computing prospective, usage issues and interactions with human body. It involves usage of highly accurate models to estimate interaction between wearables and human body. These models will convert interactions into hardware and software constraints. I propose to include these constraints in optimal frame to obtain optimal design and development of energy sustainable, safe and secure wearable devices.

Wearables - Winning in Fragmented Markets

Presenter: Anna Miskiewicz (Intel)

The talk describes challenges related to the fragmentation of the wearable segment in terms of enabling technologies, form factors and applications. In the course of the talk the audience will understand the associated complexities and learn the success factors in adjacent market segments that can be applied for the wearable space. The talk provides new insights into the topic in terms of technology positioning, business innovations and new research areas.

Survivable Social Network

Presenter: Jonida Cali (VMware)

Emergency response has evolved as IP-based communications systems are ubiquitously integrated in our society. Personal and enterprise-generated content is stored on cloud-based solutions

while communication patterns have shifted towards messaging over social networks. An outage during a large-scale disaster can result in prolonged loss of communications with citizens passively waiting for help. We propose a Survivable Social Network, which enables citizens to re-establish communication using the modern consumer mobile devices.

Career Planning Presentations

Track: Career

For: All

Location: North 121 A-C

The Best Mentors Have Questions, Not Answers

Presenter: Becky Splitt (StudyBlue)

In order to increase the numbers of women pursuing tech, it's important to reach out and inspire younger generations. Yet while the small community of women in technology is hardly lacking in potential or wisdom, understanding how to effectively find and provide guidance can be difficult. In this session, learn how to establish a healthy mentor relationship and why the best advice is often made up of questions, not answers.

Can You Program My Remote? Leading Technical Teams...Non-Technically.

Presenter: Alyson Crafton (Intel Corporation)

Technical teams with non-technical leaders –how can you be successful and be a happier organization? Alyson Crafton, Intel's Supply Chain IT GM, shares her Top Five maxims on how she leads a technical team as a non-technical leader and delivers strong business results. Coming from Intel's supply chain organization into IT came with challenges, but she's learned many things along the way as 'the least technical person' in her organization.

The Tragedy of Bias in Technical Hiring in Five Acts

Presenter: Kelsey Foley (Moz)

Why do some companies succeed in hiring women engineers while others struggle with even attracting qualified female candidates? This talk will follow fictitious hiring manager Monty Gue from hot startup Roam.io and engineer Julie Ette through the recruiting and interviewing process while exposing subtle biases in hiring practices that drive technical women elsewhere. Using recent behavioral psychology research on judgment and bias, it will provide insight for better approaches.

Tackling Everyday Challenges in a Global Workplace Panel

Track: Career

For: All

Location: North 122 A-C

Moderator: Neetu Jain (IBM)

Panelists: Vidya Srinivasan (Microsoft), Aakriti Agarwal (Palantir Technologies), Cindy Burns (EMC Corporation), Suzanne Timmons (Google)

Challenges are aplenty in one's career, irrespective of experience, position, and industry. They are particularly difficult to navigate across global contexts. Through a TED talk style format, four women, with experience ranging from two to 28 years, will share their experiences around converting these challenges into opportunities. Join them as they make the case for strategies ranging from time management to constructive disruption for navigating diverse, global challenges.

Data Science in Health and Biology: Multiple Presentations

Track: Data Science

For: ● ● ○

Location: North 124 A-B

Using Machine Learning to Predict Binding Sites in Proteins

Presenter: Jenelle K. Bray (LinkedIn)

A method for building 3D models of the local environment around a site in a protein, given training sets of positive and negative examples, is presented. This method uses a combination of Naïve Bayes and logistic regression to predict whether ATP, a small molecule, binds to a given protein. This new model performs better than any other existing protein-small molecule binding prediction method.

Statistical Clinical Decision Support Tool in Telemonitoring Using Predictive Analytics

Presenter: Celeste Fralick (Intel Corporation)

Statistical process control and predictive analytics have not been applied to vital sign monitoring. In this study of 20 elders with lung disease, extended months of lung monitoring using telemedicine are examined to determine when a clinical intervention may have been advised. These algorithms provide for the patient's own data to drive reduction in variability and potentially increase clinician efficiency, improve patient outcome, and cost burden to health care.

Emerging Topics in Computational Biology: Beyond Gene Sequencing

Presenter: Avani Wildani (The Salk Institute)

Computing has become fundamental to the life sciences, and computing problems range from traditional machine-learning and algorithm projects to modeling, visualization, interface-design, databases, systems, and even information-theory. This talk covers current hot topics as well as my recent transition from an academic computer science lab focused on distributed systems to a biology institute, and why the algorithms and data structures of nature is a large and compelling research area.

Addressing Stereotype Threat in the Education System: Brainstorming Possible Approaches BoF

Track: Faculty (Broadening Participation)

Location: North 126 A-C

Facilitators: Beccie Magnus (ThoughtWorks, Inc.), Dannielle Del Rosario (ThoughtWorks, Inc.)

Many women worry about substantiating negative gender stereotypes. Research shows that this anxiety actually causes individuals to conform more to those damaging stereotypes. We will consider how single-gender education may help reduce exposure to stereotype threat and increase confidence for women, particularly in STEM fields. We will then facilitate discussion around how to combat stereotype anxiety in other educational environments, and ways to involve technology in other possible strategies.

Software Engineering: Multiple Presentations

Track: Software Engineering

For: ● ● ○

Location: North 127 A-C

A Case for Humanitarian Free and Open Source Software

Presenter: Chelsea H. Komlo (ThoughtWorks)

Open source software is an emerging trend in humanitarian organizations around the world. This trend will re-shape the future of services for individuals excluded from traditional sectors such as banking and health, and will examine successful projects such as MifosX and OpenMRS. This presentation will be valuable for individuals interested in how technology can aid the world's poor and underserved, and want to play a part in this movement.

Beyond the Buzzwords: Test-Driven Development

Presenter: Sabrina B. Williams (Google)

Test-driven development (TDD) looks great on a résumé, but many people are unsure about what TDD really is. This highly-iterative (and backwards-seeming) process of writing tests before implementation code not only drives high test coverage, but it can also lead to YAGNI-compliant code. This talk will introduce TDD at both the conceptual and practical levels, complete with an end-to-end example of implementing a small program using TDD.

Semantic-based Code and Documentation Search Engine

Presenter: Reshma Thumma (UMKC)

Searching for the source code on internet has become an important tool for common software developers, maintenance tasks and even to students. Though, there are search engines which are exclusively used for searching source code but they do not take semantics that underlie the source code like structure of the program or programming language into consideration. We proposed a technique takes the structural organization of the source code into consideration.

Computer Science & Art in Academia: Collaboration, Discussion and Hands-on BoF

Track: GFX

For: ● ● ○

Location: North 129 A-B

Facilitators: Zoe Wood (California Polytechnic State University, San Luis Obispo), Enrica Lovaglio Costello (California Polytechnic State University, San Luis Obispo)

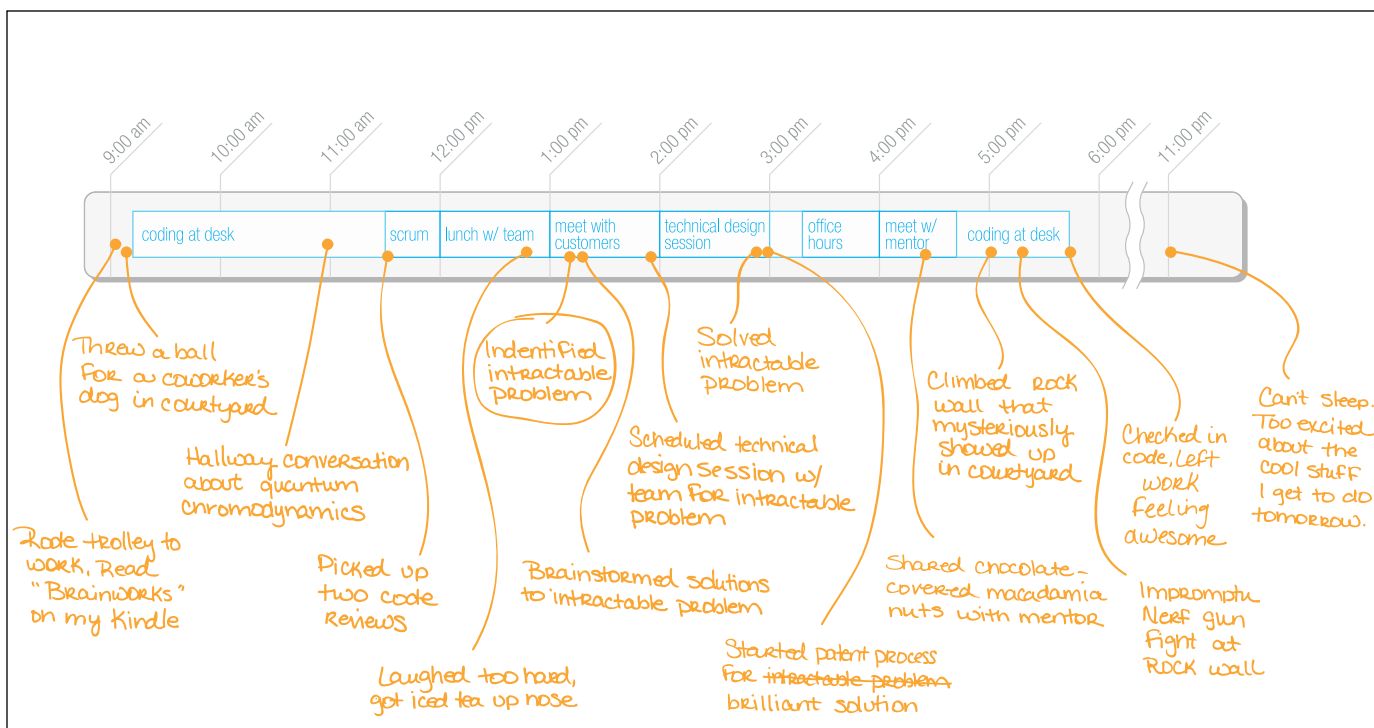
We as computer science and art faculty have been working together to cross expose our students to the artistic and technical side of computer graphics. In this BOF, we present our collaboration in order to inspire others interested in this kind of inter-disciplinary work. We ask the audience to join the discussion and help develop a list of best practices and we conclude the session with a hands-on creative activity. 6:30 - 7:30 p.m.

ABI Communities Meetup

Track: General Sessions

For: All

Location: West 301D



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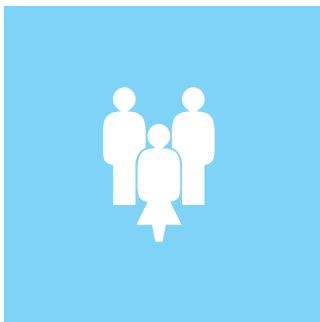
A photograph of two women in professional attire. The woman on the left has dark hair and is wearing a dark blue blazer. The woman on the right has light brown hair and is wearing a blue sweater over a light blue collared shirt. They are both smiling and looking at a tablet held by the woman on the right. The background is a bright, out-of-focus indoor setting.

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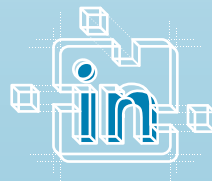


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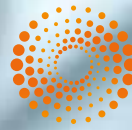
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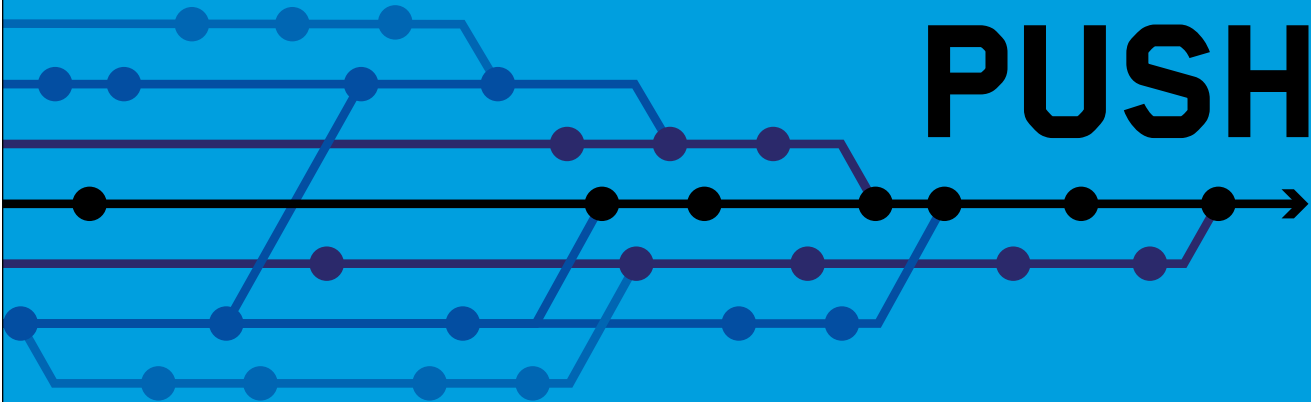
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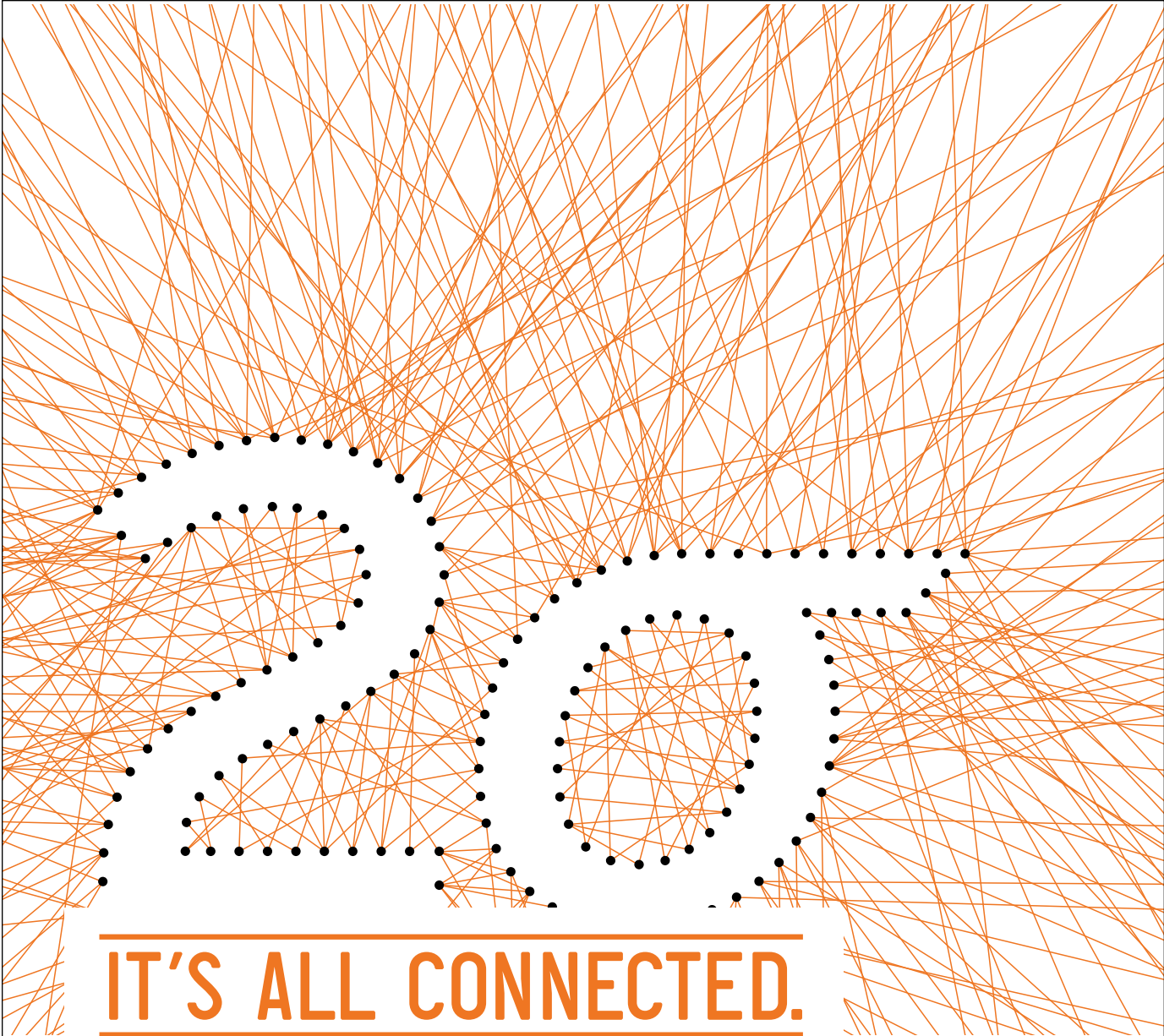
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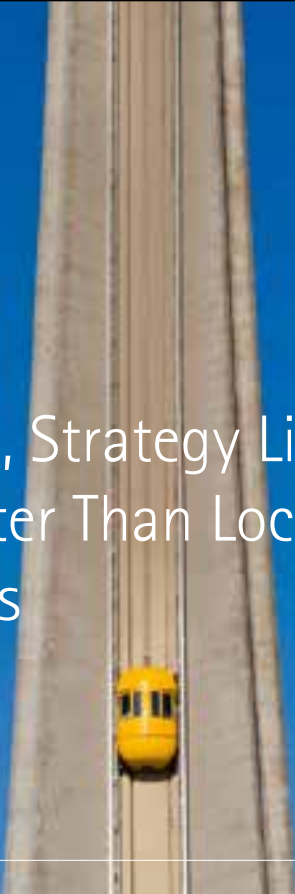


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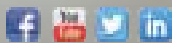
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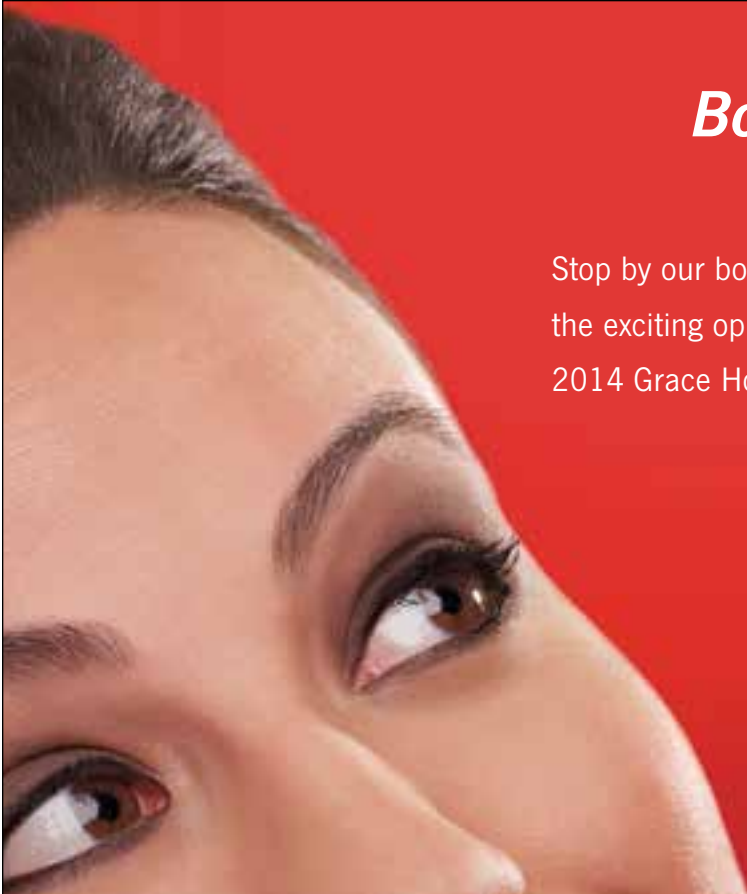


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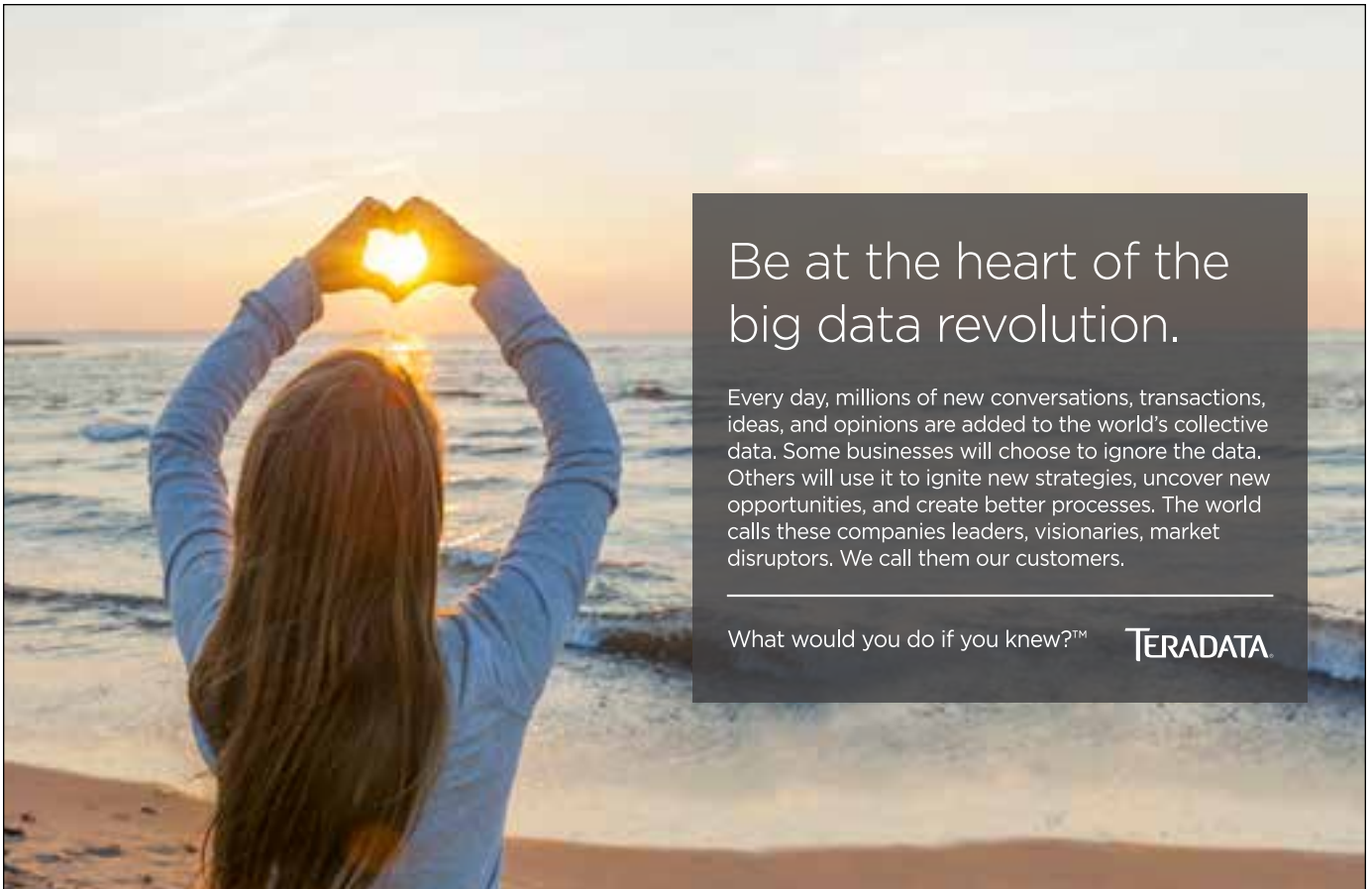
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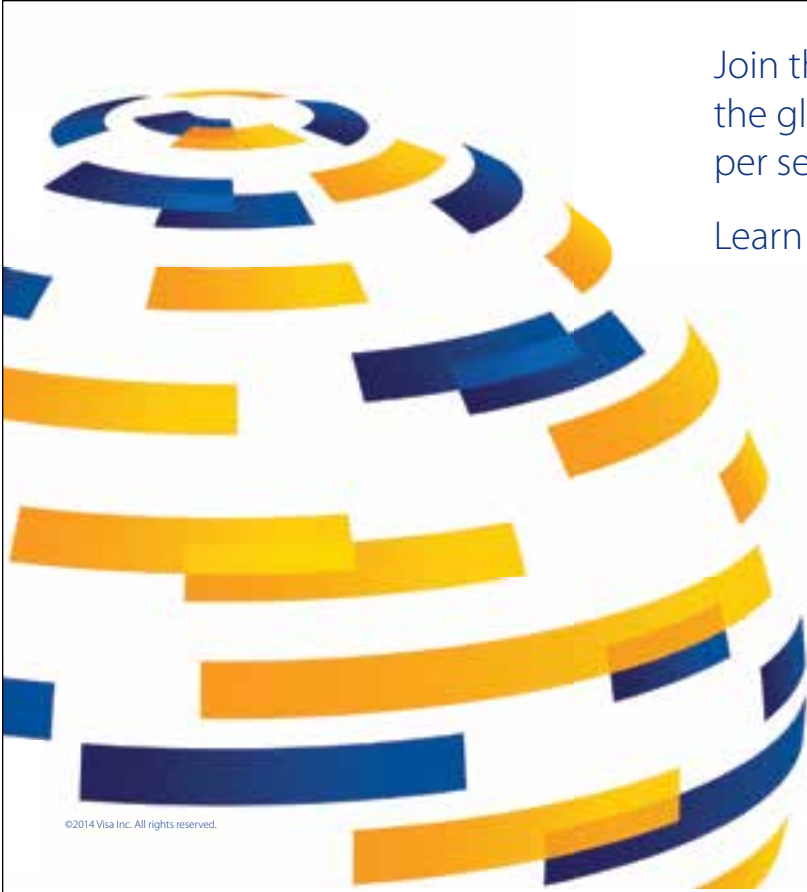
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$$H^i(M) \cong H_{i-1}(M)$$

$$f(\theta) = \frac{1}{2\pi i} \oint_{\gamma} \frac{f(z)}{z - a} dz$$

$$\min_{w,b} \max_{x>0} \left\{ \frac{1}{2} \|w\|^2 - \sum_{i=1}^n \alpha_i [y_i(w \cdot x_i - b) - 1] \right\}$$

$$H(X) = - \sum_{i=1}^n P_i(X) \log(P_i(X))$$

$$L_r(x, \omega_r) = L_0(x, \omega_r) + \int_b^x L_r(x', -\omega_r) f(x', \omega_r, \omega_r)$$

$$\frac{d}{dt} g_{ij}(t) = -2R_{ij}$$

$$\frac{\partial L}{\partial \theta} = 0$$

$$\frac{\partial L}{\partial \theta} = 0$$

$$\det(I - X \text{Frob}) \prod_{i=1}^n \frac{1}{1 - \lambda_i} \in E(X)$$

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Women
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Minorities
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Minorities
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Visualization above depicts diversity statistics of Fortune 500 businesses. Source: Robert Menendez, Corporate Diversity Report, March 2013.

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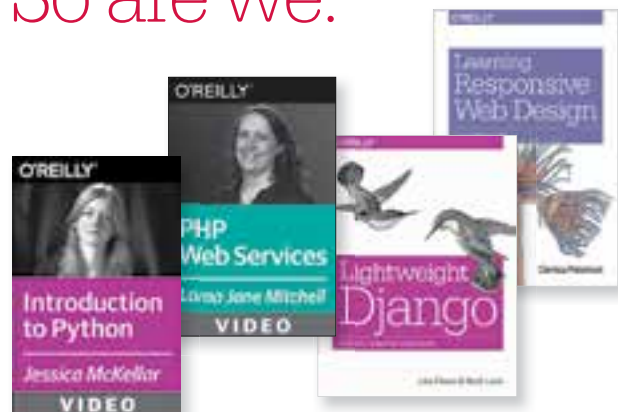
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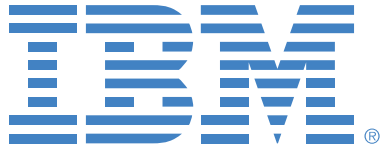
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*Source: Anita Borg Institute, "Innovation By Design: The Case for Investing in Women," 2014.

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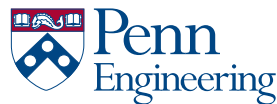
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FRIDAY RECEPTION



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LANYARDS



LUNCH CELEBRATING LATINA WOMEN IN TECHNICAL ROLES



LUNCH CELEBRATING LGBT WOMEN IN TECHNICAL ROLES



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RECEPTION CELEBRATING ARAB WOMEN IN TECHNICAL ROLES

Qatar Computing Research Institute

RECEPTION CELEBRATING BLACK WOMEN IN TECHNICAL ROLES



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REFRESHMENT BREAKS



REFRESHMENT BREAKS



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We thank our Platinum, Gold, Silver and Bronze Sponsors for funding Grace Hopper Celebration student scholarships as a part of their sponsorship. The following organizations have sponsored additional scholarships:

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“Women need to assume their rightful place at the table creating the technology of the future.”

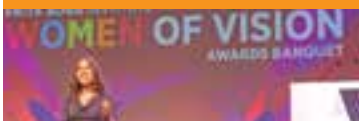
Anita Borg



ANITA BORG INSTITUTE

WOMEN TRANSFORMING TECHNOLOGY

The Anita Borg Institute connects, inspires, and guides women in computing and organizations that view technology innovation as an imperative. Founded in 1997 by computer scientist Anita Borg, our reach extends to more than 42 countries. We believe tech innovation powers the global economy, and that women are crucial to building the technology the world needs. As a social enterprise, we recognize women making positive contributions to technology, and advise organizations on how to improve business performance by building more inclusive teams.



WOMEN IN COMPUTING

We bring talented women in computing together to build quality connections, map future directions and get tools & strategies to build the career of their dreams.

GET CONNECTED

Find your tribe. ABI provides opportunities for you to meet other women technologists, gain new insights, and grow your network.

- Apply for membership in Sisters, the world's largest community of women in computing
- Join our open communities on Twitter, Facebook, LinkedIn, and Tumblr
- Check out our job board for new career opportunities
- Sign up for our newsletter

BE INSPIRED

Discover the stories of women who are leading technology innovation. ABI showcases individuals and organizations where women in technology can thrive.

- Discover women who are making a difference in technology on our YouTube channel or profiles of famous women in computing on our website
- Meet this year's Top Company, Bank of America — and find out what criteria we used to separate this organization from the pack

GET EXPERT HELP

When you keep your technology skills current, your market value soars. ABI helps you take the steps you need to grow your career and gain new skills.

- Join an ABI Lean In circle
- Explore solutions for retaining women in computing
- Build your resumé by volunteering at one of our events



ANITA BORG INSTITUTE
WOMEN TRANSFORMING TECHNOLOGY

www.anitaborg.org

TECHNOLOGY ORGANIZATIONS

We help organizations build balanced teams to drive technology innovation.

CONNECT WITH THE BEST

Meet the women who are transforming technology. ABI brings women in computing together, giving organizations access to great ideas and top talent.

- Learn about our sponsorship opportunities
- Post open opportunities to our career board
- Increase your competitiveness

RAISE YOUR TECHNOLOGY INNOVATION QUOTIENT

What's your tech IQ? ABI provides research, insights, and benchmarking that help organizations attract women in technology to build balanced teams and accelerate innovation.

- Find out your Tech I.Q. by participating in the ABI Top Company award. Find out how you rate on attracting, retaining and advancing women in technology roles
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Design your workforce for peak performance. ABI equips you with the tools and strategies you need to find, empower, and advance women in technology roles.

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where the people who
imagine and build technology
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The Anita Borg Institute connects, inspires and guides women in computing and organizations that view technology innovation as a strategic imperative. ABI is a not-for-profit 501(c)(3) charitable organization.

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2014 Grace Hopper Celebration of Women in Computing Addendum

ALL NEW TRACK

Due to popular demand, we have added an exciting new track each day for those who would like to meet others through networking, mentoring, and community forums. Please consider these additional opportunities to actively participate in exercises and facilitated sessions with the express intent of connecting the GHC community.

Wednesday, Oct 8th

What better way to start your Grace Hopper Celebration experience than to expand your network by making a new connection. Meet your fellow attendees, share, and have some fun in these exciting sessions. The Connect @ GHC track is referred to as the Icebreaker track in the program guide.

12:30 - 2:15 PM

Celebrating Our New Network

Track: Connect @ GHC

Location: North 121 A-C

Facilitators: Anita Borg Institute Team in collaboration with Lisa Schlosser (Thomson Reuters)

We often don't take the time to celebrate success and to articulate the many achievements that we accomplish at work, at home, and in the larger community. In this interactive session we will share our accomplishments and celebrate them, while creating a new network @ GHC!

2:45 - 4:30 PM

Making Meaningful Connections: The Strength of Weak Ties

Track: Connect @ GHC

Location: North 121 A-C

Facilitator: Janel Anderson (Working Conversations)

Chances are, the most valuable person in your network is someone you've never met. Those who are two or three degrees away are more likely to know people and things that we do not – and that can help us a great deal. Come join us in this interactive session, make a new connection, and learn the real value in our network is in the power of weak ties.

Thursday, Oct 9th

Here is a unique opportunity to experience mentoring at a fast pace. Bring your inquisitive mind and thought-provoking questions to ask our esteemed mentors in a series of short, focused conversations.

10:15 - 11:15 AM

General Speed Mentoring

Track: Mentoring

Location: South Ballroom

During this interactive session, attendees share their professional backgrounds and business goals, allowing both mentor-mentee to network and connect along a common axis - be it along their technical interests or career aspirations.

12:00 - 1:00 PM**General Speed Mentoring (REPEAT)**

Track: Mentoring

Location: South Ballroom

During this interactive session, attendees share their professional backgrounds and business goals, allowing both mentor-mentee to network and connect along a common axis - be it along their technical interests or career aspirations.

2:15 - 3:15 PM**Underrepresented Women in Computing Speed Mentoring**

Track: Mentoring

Location: North 121 A-C

Jumpstart your career by asking those questions you've always wanted to ask! The speed mentoring session will allow participants to meet senior underrepresented technical women in industry/academia/government and find their next mentor, career path, research partner, or more. Participants should come prepared with a list of questions or discussion topics. These informal meetings have proven to be very effective and beneficial for all who participate.

3:30 - 4:30 PM**Underrepresented Women in Computing Speed Mentoring (REPEAT)**

Track: Mentoring

Location: North 121 A-C

Jumpstart your career by asking those questions you've always wanted to ask! The speed mentoring session will allow participants to meet senior underrepresented technical women in industry/academia/government and find their next mentor, career path, research partner, or more. Participants should come prepared with a list of questions or discussion topics. These informal meetings have proven to be very effective and beneficial for all who participate.

5:15 - 6:15 PM**General Speed Mentoring (REPEAT)**

Track: Mentoring

Location: South Ballroom

During this interactive session, attendees share their professional backgrounds and business goals, allowing both mentor-mentee to network and connect along a common axis - be it along their technical interests or career aspirations.

Friday, Oct 10th

Leave GHC with a community of supporters. The Anita Borg Institute offers strategies, initiatives and tools to enable you to stay inspired, connected and get the guidance you need.

12:00 – 1:00 pm

Systems Creating Change EVERYWHERE Through Community and Technology Initiatives

Track: Stay Connected

Location: North 229 A-B

Panelists: Nadyne Richmond (Moderator, co-chair SAC), Neetu Jain (co-chair SAC), Kayra Hopkins (PIO chair), Ayori Selassie (Best of Systems), and Nicki Hutchens (Systems GSoC org admin)

In the spirit of Anita Borg and Grace Hopper, Systems have several initiatives they are involved in to help women everywhere to create social positive change in their communities. Through community leadership, small micro-financing awards, development mentoring and storytelling, Systems representing Systems Advisory Council, Pass-It-On Awards committee, Best of Systems Blog editorial team and Systems Google Summer of Code mentoring program discuss their programs and how you can get involved.

3:30 – 4:30pm

Showcasing ABI Systems Everywhere: Building Strong Globally Connected Communities to Empower Every Woman in Computing EVERYWHERE

Track: Stay Connected

Location: North 229 A-B

Panelists: Julie Mariga (Moderator LGBT), Mirkeya Capellan (Latinas), Danielle Cummings (BWiC), Sana Odeh (ArabWiC), and Umit Yalcinalp (TurkishWiC) ABI Systems Communities share their experiences, challenges and successes of building a strong globally-connected community. Panelists from different ABI communities (Arab Women in Computing, Black Women in Computing, Latinas in Computing, LGBT in Computing, and Turkish Women in Computing) address the opportunities for global women in computing, what worked and did not work for them. They provide insight on how to join an ABI community, create a new one, and also share resources on how to support and retain women in IT everywhere.

5:15pm – 6:15pm

Expanding Reach for African and Asian Systems and Women in Computing EVERYWHERE

Track: Stay Connected

Location: North 229 A-B

Panelists: Rose Robinson (Her Systems Keeper Moderator), Jean Njoroge (AfricanWiC), Qia Lin Mao (ChineseWiC), Elizabeth Bautista (FilipinasIC), Roshni Chandrashekhar (IndianWiC)

Newly formed ABI Communities, African Women in Computing (WiC), a sub-community of Black Women in Computing and Asian Women in Computing with 3 sub-communities, ChineseWiC, Filipinas in Computing and IndianWiC, share why they started their communities, the challenges their specific groups face and their plans and initiatives to recruit and retain women into IT fields. Recognizing, women in their groups are living and working around the world, panelists from each of these communities discuss their initiatives to help other African and Asian women everywhere.

GHC 2014: FILM FESTIVAL

Wednesday, Oct 8th

6:30 PM - 7:30 PM

Title: Male Allies Plenary Panel

Watch a trailer of the Code Documentary at the Male Allies Plenary Panel. The film talks about starting a groundswell movement to do what we can to rectify the dearth of female and minority programmers. Together we can change the (tech) world.

Thursday, Oct 9th

2:15 - 3:15 PM

Dream Big

Location: West 301 A, West 301 B-C (Overflow screening only)

Speakers: There will be a panel discussion following the screening featuring, Ruthe Farmer (NCWIT), Cassidy Williams (Venmo), Rane Johnson (Microsoft).

From small town Iowa to the bustling streets of the Middle East, Big Dream immerses viewers in a world designed by and for the next generation of girls. Join us as we expose you to a 30-minute teaser of the film that will release in November at the Napa Valley Film Festival. Hear from the film Director, some of the women from the film, and learn how you can join the Big Dream movement back at your university, organization or company!

8:30 PM - 9:30 PM

Girl Rising

Location: North Halls A-D

Speakers: Suzanne Fallender (Intel), Megan Hershiser (Girl Rising)

From Academy Award-nominated director Richard E. Robbins, Girl Rising spotlights the remarkable stories of nine girls living in the developing world, striving beyond circumstance and overcoming nearly insurmountable odds to achieve their dreams. The narration talents of renowned actors and the moving words of prize-winning authors combine and give voice to the girls' stories and this powerful truth: educating girls can transform families, communities, countries and eventually, the world. Featuring Cate Blanchett, Priyanka Chopra, Selena Gomez, Anne Hathaway, Salma Hayek, Alicia Keys, Chloe Grace Moretz, Liam Neeson, Freida Pinto, Meryl Streep, and Kerry Washington.

“MAKERS” - Trailblazers

Location: West 301 A, West 301 B-C (Overflow screening only)

Speakers: Megan Smith (U.S. Chief Technology Officer and Assistant to the President), Dyllan McGee (MAKERS)

MAKERS is a digital and video storytelling platform that aims to be the largest and most dynamic collection of women's stories ever assembled. Through original interviews, MAKERS brings together well-known trail blazers. See some of them today.

FRIDAY, Oct 10th

10:15 – 11:15 am

Remembering Anita Borg (Documentary)

Track: Stay Connected

Location: North 229 A-B

Anita Borg is remembered by six people who knew and loved her: Alan Eustace, Maria Klawe, Miche Baker-Harvey, Robin Jeffries, Telle Whitney, Winfried Wilcke. They narrate in turn how she got into Computer Science, her vision, her leadership and her unique personal qualities that led to the creation of Systers, of what is now called the Anita Borg Institute, and the Grace Hopper Celebration of Women in Computing.

Corrections and Modifications

WEDNESDAY, OCT 8th

12:30 PM - 1:30 PM

From the CIO's Office – Technology Roles in Consumer Facing Companies

Track: Career

Location: North Halls A-D

Panelist: Linda Apsley (Time Inc.) will be moderating this high profile panel featuring Susan Gueli (CIO, Nationwide), Julie Elberfeld (CIO, CapitalOne), Laurie Readhead (CIO, Bank of America).

Do you wonder what it's like to have a technical career in an insurance company, a bank, or a financial services firm? Come hear these accomplished CIOs of major companies discuss the roles of women technologists in their organizations. Discover the differences in working for consumer-facing companies versus pure technology firms. Find out what the future holds for women in computing at these well-known companies, straight from the CIO.

2:00 PM - 3:00 PM

Anita Borg's Vision—*Building a Global Community of Women Leaders*

Track: Career

Location: North 120 A

Moderator: Jody Mahoney (Anita Borg Institute)

Panelists: Sana Odeh (NYU), Judith Owigar (AkiraChix) , Sheila Campbell (Peace Corps) , Andrea Villanes (North Carolina State University)

“... You can't do it all by yourself. So seek out other women in places like this. Seek out like-minded souls to talk to when you're in the middle of a struggle. And mentor others.”

Anita Borg

Help us build a network of women technology leaders in communities throughout the world. What steps should we take? How do we leverage the Grace Hopper Celebration? What tools do you need as you build your own community?

1. What is the best way to identify global women technology leaders?
2. What support do these leaders need when they return to their communities?

Panel Outcome: A group of volunteers willing to work with us to build this community of women technology leaders

3:30 PM - 4:30 PM

CRA-W: Preparing for Promotion

Track: CRA-W (Early Faculty)

Location: North 124 A-B

Kathryn McKinley (Microsoft) replaces Julia Hirschberg (Columbia University).

12:30 PM - 4:30 PM

Grace Hopper Student Opportunity Lab

Location: North Hall E

(Withdrawn Speakers):

Kaycee Anderson, Microsoft and Whitney Lai, Electronic Arts: Getting Started in Industry: Applying and Picking Internships and Jobs

(Added Speakers):

Xiaodan Zhang, University of Illinois Urbana-Champaign and Shivani Rao (Box): From Classroom to Industry Learning to be a Data Scientist

Renuka Kodiyalam, LinkedIn and Rachel Sanders, LinkedIn: How to get noticed and excel at technical interviews

Kelly A. Bowles, Amanda Ulmer, Peggy Li, Tessa Santos and Yawen Wei (All LinkedIn): Polishing Up Your LinkedIn Profile

7:30 PM - 10:00 PM

Poster session

(Withdrawn Posters)

Syeda Farzia Afroze, Bangladesh University of Engineering and Technology: Smart Phone Battery Performance Optimization by Analyzing Usage Patterns

Anshika Agarwal, University of Illinois at Chicago: (Builder Bob) Interactive Learning Simulation System for Flood Management

Mahmuda Ahmed, University of Texas at San Antonio: Geometric Algorithms for Street-map Construction and Comparison

Anika Anwar, Bangladesh University of Engineering and Technology: Impact of Imbalance Usage of Social Networking Sites on Families

Hannah Blau, University of Massachusetts at Amherst: Giving Students Automated Feedback on Java Program Flaws

Jenna L. Butler, University of Western Ontario: Simulating cancer growth using cellular automata for treatment discovery

Tanzila Choudhury, Bangladesh University of Engineering and Technology: Nanonetworks Using Near Field Communication

Tasnim Chowdhury, Bangladesh University of Engineering and Technology: ShomoGaan: Ensuring Education to Illiterate Female Population in Developing Countries

Ananya Cleetus, NCWIT Aspirations in Computing & Carnegie Mellon University: Development of a Robotic Prosthetic Hand for Leprosy Victims

Katy Dickinson, Everwise: Notable Women in Computing and Wikipedia

Ruth Garcia, Universitat Pompeu Fabra: Twitter ain't Without Frontiers

Amruta Gokhale, Rutgers, The State University of New Jersey: Detecting Plagiarized Mobile Apps using API Birthmarks

Fatemeh Jalali, University of Melbourne: Hidden Energy Consumption of Photo Sharing in Online Social Networks

Kazi Sinthia Kabir, Bangladesh University of Engineering and Technology: Q-Nerve: Propagating Signal of A Damaged Nerve Using Quantum Networking

Samia Kabir, Bangladesh University of Engineering and Technology: Analyze Human Characteristics and Social Class Using Social Network Data

Nazifa Karima, Bangladesh University of Engineering and Technology: Mail on Your Mobile

Dallas B. Kidd, University of Houston: Named Entity Recognition for Noisy Data

Yelin Kim, University of Michigan - Ann Arbor: Emotion Classification: A Pattern-Based Approach To Characterizing Affective Expressions

Sammy Krieger, University of British Columbia (UBC): Female dis-inclinations to tinker: An obstacle in Computer Science?

Kaushalya Kularatnam, University of Oxford: Trust Metrics for Online Social Media

Kristin S. Mead, University of Minnesota: Secure Mathematically-Assured Composition of Control Models (SMACCM)

Susan Moller Ferreira, Universitat Pompeu Fabra: Older people as active creators of digital videos

Josephine M. Namayanja, University of Maryland, Baltimore County (UMBC): Discovery of Persistent Threat Structures through Temporal and Geo-Spatial Characterization

Joannah Nanjekye, Freelance :Platform for reporting and visualizing data on violence against women.

Harshani Nawarathna, University of Moratuwa: Adaptive E-Learning for Students with Learning Impairments

Afarin Pirzadeh, IUPUI: Designing Multi-Touch Gestures to Support Emotional Expression in IM

Swaathi Ramesh, National Institute of Technology, Tiruchirapalli: Certificateless Signcryption with Tight Security Reduction, without Pairing

Samiha Samrose, Bangladesh University of Engineering and Technology: Group Trip Planning Queries in Road Networks

Alisha Saxena, NCWIT Aspirations in Computing, University of Washington, MIT: Analyzing and Preventing Quick Response Code-based Malware and Phishing Attacks for Smartphones

Forough Sheikh Ansari, Purdue University: Optimizing Controllability of Complex Networks

Amy Shen, NCWIT Award for Aspirations in Computing & Stanford University: A Novel Approach to Measuring Password Strength Using Web Popularity

Asmaa Shoala, Alexandria University: Wearable Device to Reward Helping Behavior During Interaction with Public-Displays

Roma Vachhani, Kean University: Data Analytic to Predict Notification System Performance

Kara Vaillancourt, Virginia Tech & NCWIT Award for Aspirations in Computing: Mirror Worlds: A Living Lab for Asynchronous and Synchronous Investigation of Virtual and Real Environments

Laan Yeung, NCWIT Award for Aspirations in Computing Aspire IT: Introducing Middle School Girls to STEM One Step At a Time

Hafsa Zannat, BUET: MOVH: Multi-Objective Vertical Hand-off Mechanism with Higher Scalability and Stability

Anna Zawilska, University of Oxford: Massive Open Online Course Interface Requirements to Harness Collective Intelligence

Alisa Zhila, Center for Computing Research, Instituto Politecnico Nacional, Mexico Center for Computing Research: ExtrHech: Open Information Extraction System for Spanish

Poster session (Added Posters):

Alana Platt, University of Wisconsin - Whitewater: MyWellnessManager: A Mobile Wellness Application

Maggie Jauregui, Intel: May the Best Bug Win! Harnessing the Collaborative Power of Hack-a-Thons to Improve Product Security Design

Nadyne Richmond, VMWare: The Mid-Career Donut Hole

Celeste Bertin, Universidad Técnica Federico Santa María: V.I.Pe.R: a Virtual Interactive Pet Robot for CS Outreach

Susan Rodger, Duke University: Notable Women in Computing and Wikipedia

Jennifer Howland, IBM: Creating Your Career Journey

THURSDAY, Oct 9th

10:15 AM - 11:15 AM

Data Science in Practical Applications

Katherine Loh (Sift Science) replaces Evelyn Gillie (Sift Science) to present “Fraud Detection with Machine Learning: A Case Study from Sift Science”

12:00 PM - 1:00 PM

Multiple Presentations: Security Track

(Corrected Bio) Jing Xie is a security analyst at Lookout Mobile Security. Her main responsibility is to reverse engineer Android apps from all over the world, and to cast out the ones that are malicious to users. She has a PhD from University of North Carolina at Charlotte in software security with research that aimed to help software developers to write more secure code since 2012.

1:00 PM - 2:15 PM

Fall 2014 Partner Lunch Meeting (By Invitation Only)

Location: West 102 A-C

3:30 PM - 4:30 PM

Accelerating the Advancement of Women Technologists

Location: North 120 D

Susan Davis-Ali (Leadership 1) joins this panel that includes Michelle Angier (eBay Inc.), Peggy Irelan (Intel), and Susan Puglia (IBM) moderated by Denise Gammal (Anita Borg Institute)

Women technologists provide diverse perspectives, and research shows including women improves innovation and the bottom line. Lack of advancement is a primary reason women leave technical fields. Men are three times more likely than women to advance into senior technology roles. Panelists share proven solutions their companies are using - leadership programs, organizational structures, sponsorship, and gender intelligence - that are making big leaps forward to advance women technologists.

It doesn't have to be pink! Designing for women

Hannah Pileggi (Facebook) and Daniela Busse (Citi Ventures' Global Innovation Network) join this interactive BOF.

Multiple Presentations: Security Track

Nahid Farhady Ghalaty (Virginia Poly Technique Institute and State University) is unable to present "Eliminating and Analyzing the Causes of Fault Sensitivity Analysis"

Friday, Oct 9th

12:00 PM - 1:00 PM

"Lean In" with ABI Lean In Circles session is in North 120 D.

Security: Part of the Development Process Panel is in North 120 A.

ABIE Social Impact Award Winner, Denice Denton & Richard Newton Award Winners

Track: Faculty (Broadening Participation)

Location: N121 A-C

Presenters: Ruthe Farmer (National Center for Women & IT (NCWIT)), Ayanna M. Howard (Georgia Institute of Technology), Tamar Solorio (University of Alabama at Birmingham).

The ABIE Award Winners talk about the work that they have done in broadening participation and getting more students interested in computer science. They will present to our attendees the innovative practices and approaches that they are using to attract girls and women to computing, engineering, and math, and what continues to motivate them to make a difference.

2:15 PM - 3:15 PM

ABIE Change Agent Award Winners Panel

Location: North Halls A-D

Moderator: Dennis Whittle (Ashoka Changemakers and Feedback Labs)

Panelists: Barbara Birungi (Women in Technology Uganda), Durdana Habib (IEEE), Judith Owigar (Akirachix)

This is a Plenary session featuring the 2014 Change Agent ABIE Award Winners and a returning Change Agent ABIE Award winner. They are leaders within their communities and are creating opportunities for girls and women in technology in Pakistan, Kenya and Uganda. The panel will focus on their inspiring achievements and stories.

3:30 PM - 4:30 PM

Multiple Presentations: Security Track

Raylene Yung (Facebook) is unable to attend to present “Facebook’s Approach to Privacy By Design in Product Development”

CAREER FAIR GUIDE ADDITION

Box

Box provides a secure way to share content and improve collaboration on any device. Desktop, tablet or mobile. From huge corporations to mom and pop stores, Box believes technology should never limit anything you do. Businesses of any size can be more productive, inventive and powerful on Box. The company is well funded by top VC firms like Andreessen Horowitz, Draper Fisher Jurvetson and U.S. Venture Partners. Box is proud to be on Forbes’ list of America’s Most Promising Companies, is used in 240,000 businesses - including 99% of the Fortune 500 – and is the go-to product of 27 million people.

ThoughtWorks

ThoughtWorks is a global software consultancy that creates customized software solutions for clients, but that’s where the similarities to other companies end.

Our Associate Consultant Program is a unique introduction to the software world. It starts with five weeks in India where you will work with other new consultants from across the globe. Once you return, you’ll become a key player on one of our teams, where you’ll apply a variety of technologies to help develop solutions for companies all over the world. This means you’ll be constantly exposed to new languages, frameworks, industries, and teams all over North America--and eventually all over the world!

If you're looking for a non-traditional path in software development and the ability to shape your career according to your strengths and passions, we can do that. If you want to see different parts of North America, great! Traveling is what we do.

Diversity in tech is really important to us. We’ve always been committed to hiring women and currently have more than 30% technical women at ThoughtWorks in North America. In the Associate Consultant Program, we’ve been able to achieve an even better percentage (especially compared to industry averages) of 52% women -- something we’re really proud of.

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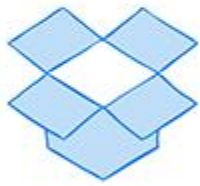


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ANITA BORG INSTITUTE
WOMEN TRANSFORMING TECHNOLOGY

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The Anita Borg Institute (ABI) connects, inspires, and guides women in computing and organizations that view technology innovation as a strategic imperative. Founded in 1997 by computer scientist Anita Borg, our reach extends to more than 54 countries. We believe technology innovation powers the global economy, and that women are crucial to building technology the world needs. The Anita Borg Institute is a not-for-profit 501(c) 3 charitable organization. For more information, visit www.anitaborg.org.