

25 YEARS

A CELEBRATION OF SUCCESS



LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM

Hartford Marriott & Convention Center | Hartford, Connecticut | July 27-29, 2018

WELCOME

~ to the ~

2018 Leadership Alliance National Symposium



Welcome to the 2018 Leadership Alliance National Symposium! The theme, 25 Years: A Celebration of Success, calls us to reflect upon and commemorate the 25th anniversary of the Summer Research Early Identification Program (SR-EIP)!

As I think about this milestone, I think of the ongoing relevance of mentorship through critical transitions along the academic pathway. 25 years ago, when the SR-EIP began, I was a predoctoral candidate in the microbiology department at NYU School of Medicine. Just as the SR-EIP would not have been launched without our founders, Vartan Gregorian, Jim Wyche and others, I would not have launched my academic career without a professor who believed in my

potential and shared the application to the prestigious Undergraduate Research Program at Cold Spring Harbor. He simply said: *You should apply to this*. This one pivotal moment illuminated a challenging and enriching academic and professional pathway.

Our founders established the Leadership Alliance SR-EIP in 1993 so that talented students from underrepresented backgrounds would have the opportunity to explore research questions and careers within a supportive environment at the most competitive institutions in the country. For a quarter of a century, faculty and administrators have amplified the voice of that one professor by reaching out and saying to students: *You should apply to this*. As a result, the program grew dramatically from our first cohort of 92 participants in 1993 to our current cohort of more than 300 students. We are indebted to the longstanding commitment and dedication of our faculty and administrators to the mission of developing underrepresented students into outstanding leaders and role models in all career sectors.

The Leadership Alliance is still relevant because each of you is a testament to our belief that talent resides in individuals from a wide range of backgrounds and that our investments in your development would yield leaders who reflect the dynamism that diversity brings to an inclusive and competitive workforce.

Congratulations to all of the undergraduates at our SR-EIP institutions, graduate students, and Doctoral Scholars. Heartfelt thanks to our faculty mentors and program administrators. This is an opportune moment for us to acknowledge our past and present community of scholars, celebrate our accomplishments, and recommit to fulfilling our promise of leadership.

Have a wonderful conference — Make it memorable!

A handwritten signature in black ink, appearing to read 'Medera' followed by a stylized flourish.

Dear LANS Attendees,



This is the Silver Anniversary of the Leadership Alliance Summer Research-Early Identification Program (SR-EIP)! We, the members of the Symposium Planning Committee, welcome you to Hartford, CT, and we are thrilled that you have joined us at our annual conference!

In past years, the weekend conference for our undergraduate and graduate students was known as the Leadership Alliance National Symposium (LANS). The Alliance has redefined our scope and vision for this event. Now, LANS is comprised of the Wednesday-Thursday Career Development Workshop for graduate students and post-doctoral scholars, Grant Writing Coaching Groups for faculty members from Thursday to Friday, and the weekend Research Conference where undergraduate scholars share their research with the Alliance community of Doctoral Scholar alumni, graduate students, faculty and administrators. We are very excited about our newly-branded Symposium and the benefits that the participants will receive.

During the LANS Research Conference, there will be a myriad of events especially planned to support and promote the academic, personal and professional development of our emerging scholars and others that focus on supporting our Alliance faculty, staff and administrators. We encourage you to participate fully in the events associated with your conference track and let us know how the events helped you and how we can improve them for future LANS participants.

The conference will feature several outstanding speakers. Our Friday dinner will feature our Doctoral Scholars, SR-EIP alumni who have obtained their PhD or MD-PhD degree and are diversifying the research workforce. They will share stories of their journey from emerging scholars to preeminent scholars. On Saturday, Dr. Yajaira Sierra-Sastre will share her experiences of her time at NASA. The closing session on Sunday will feature Rev. Dr. Nichelle Guidry from Spelman College who will provide words of wisdom to motivate and inspire!

Should you need anything during your time at LANS, please do not hesitate to let us know. We hope that you have a positively productive experience with us, and we hope that this will be an unforgettable experience that allows us to benefit from your knowledge and presence.

Warm regards,

A handwritten signature in cursive script that reads "Don C. Brunson".

Don C. Brunson, Chair
Symposium Planning Committee

LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM

1993 – 2018



25 YEARS

A CELEBRATION OF SUCCESS



In Memoriam

“Her thoughtfulness and insights paved many a path in the sciences and the academy for the historically underrepresented, for whom she was such a tireless advocate.”

—Leadership Alliance Coordinator



Dr. Valerie P. Wilson served as the Executive Director of the Leadership Alliance from 2003 to 2011. Under her leadership, we celebrated the 1st 100 PhD's in 2008, new programs were launched, and the visibility and prominence of the Alliance was enhanced through numerous national and international conferences and awards, most notably the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring, presented by President Obama. Because of these efforts, the Alliance is a much stronger entity that will continue to have a prominent place as a national model of excellence. Dr. Wilson has transformed lives and launched countless careers.

“He was a truly caring educator whose passion for his students and their development was unmatched.”

—Leadership Alliance Coordinator



Dr. Roosevelt Ratliff Jr. was the Assistant Vice President of Academic Affairs and Professor of Education in the Division of Academic Affairs at Claflin University. As the Leadership Alliance Institutional Coordinator for Claflin University, Roosevelt served for more than five years on the Executive Committee. In this capacity, he played a central role in developing the strategic plan of the Leadership Alliance, which was ratified in 2010. For many years, he worked in the trenches and had a solid understanding of developing Claflin's students into leaders and role models. Ratliff was the quintessential advocate for all of his students who applied to the Leadership Alliance and other programs.

“DeVon was a kind person with an infectious smile and personality. He cared about the community and his light brightened the lives of so many.”

—Leadership Alliance Community Member



Dr. DeVon Wade participated in the Summer Research-Early Identification Program at the University of Chicago in 2009. After this experience, he enrolled in the doctoral program in the Sociology Department at Columbia University. His doctoral research focused on understanding inequality along racial and class lines as it pertained to criminality and urban areas. DeVon received multiple prestigious awards including the Truman Scholarship, the Ford Foundation Pre-Doctoral Fellowship and the National Science Foundation Fellowship. He will be remembered as a remarkable and promising young scholar. DeVon was awarded a posthumous degree by Columbia University.

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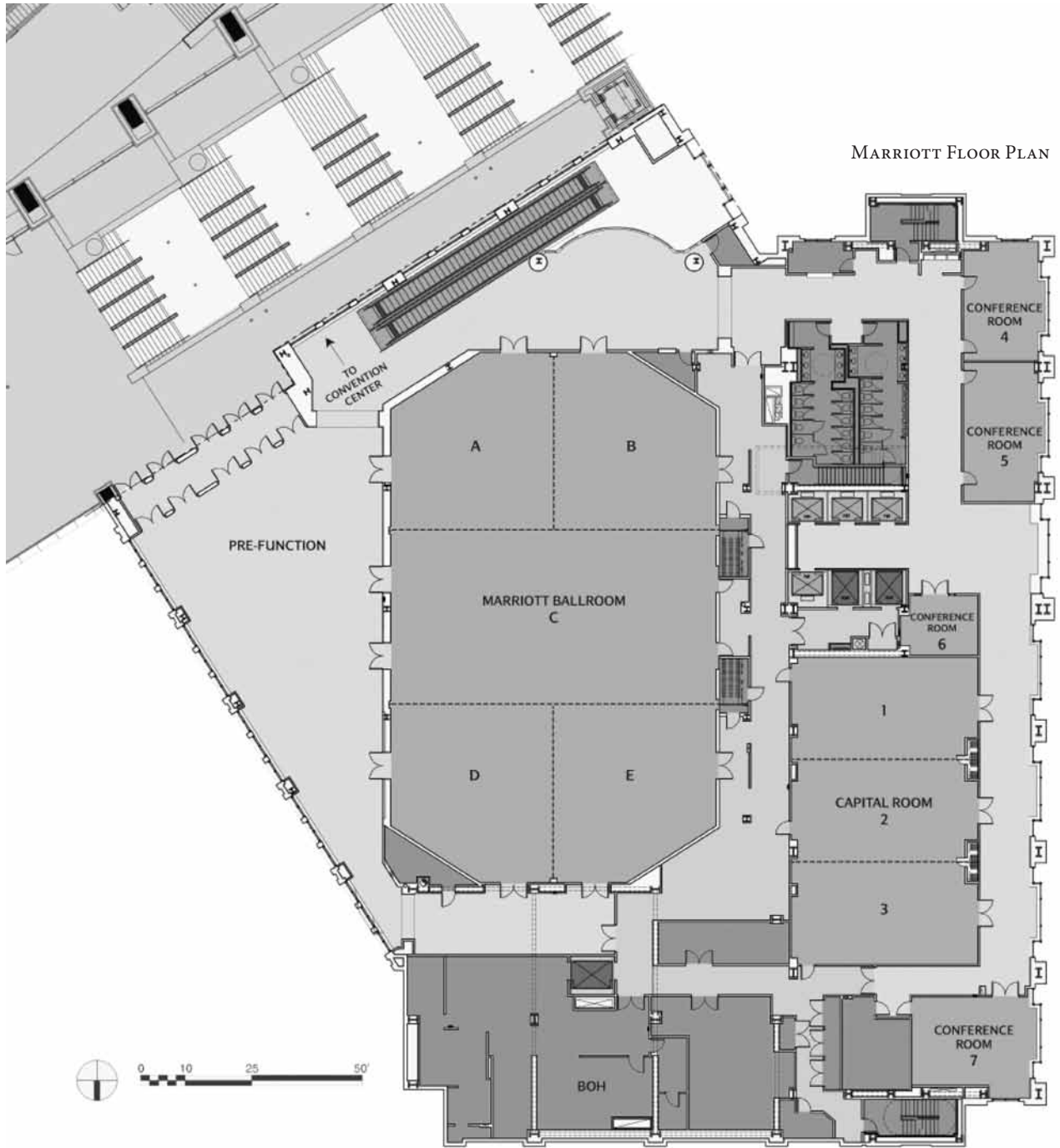


LEADERSHIP ALLIANCE NATIONAL SYMPOSIUM

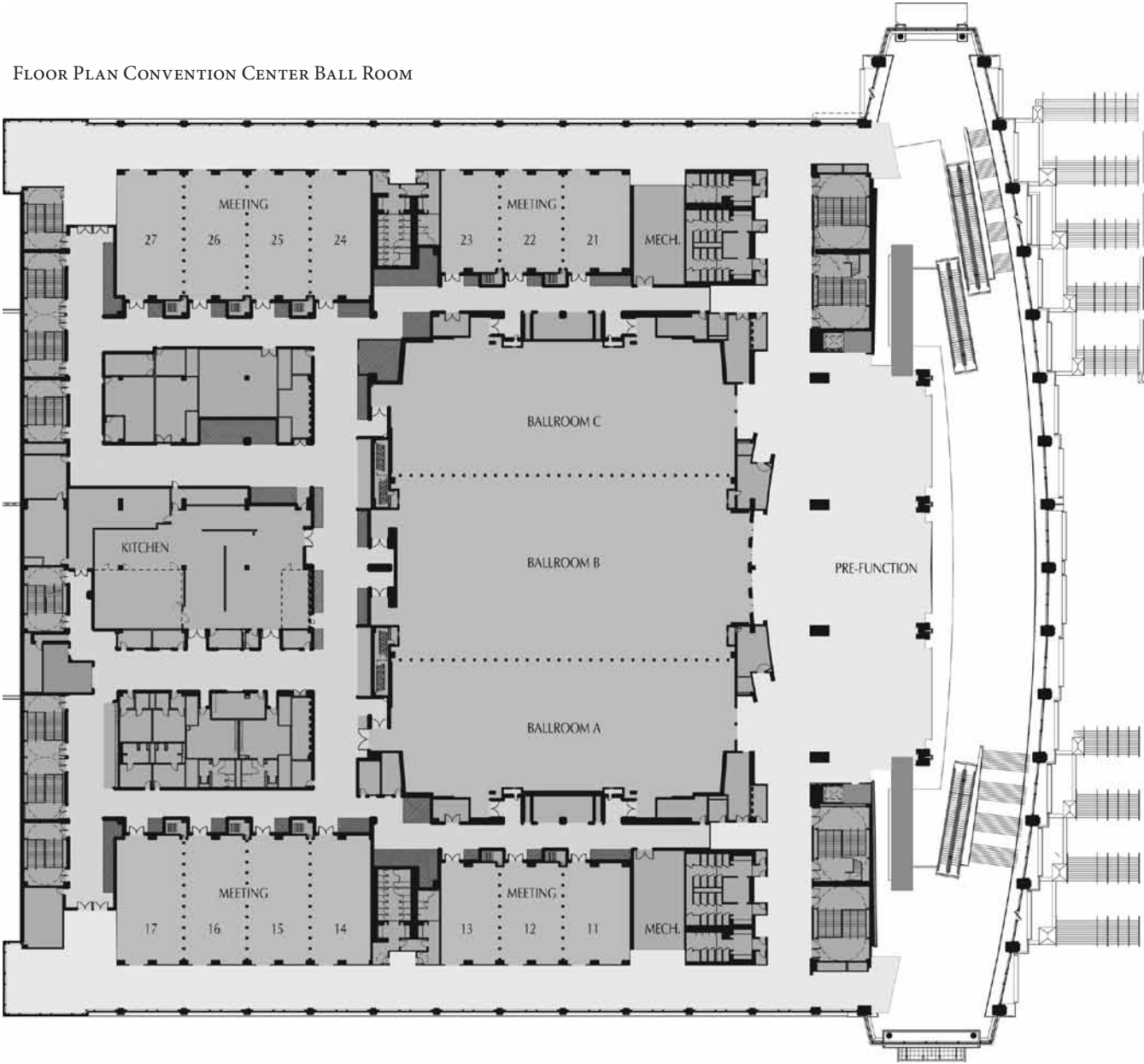
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FLOOR PLAN CONVENTION CENTER BALL ROOM



Symposium At-A-Glance

Friday		
Everyone	11:00 am – 5:00 pm	Registration
	12:00 pm – 2:00 pm	Networking Lunch
	2:00 pm – 3:00 pm	Break
	7:00 pm – 9:00 pm	Open Plenary — Welcome Dinner
Undergraduate Sessions	11:00 am – 3:00 pm	PowerPoint Presentation Upload I
	3:00 pm – 5:00 pm	Orientation/What is LANS? — <i>Sessions by Discipline</i>
	5:30 pm – 6:30 pm	Graduate Research Fellowship Programs (GRFP) <i>Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences</i>
	5:30 pm – 6:30 pm	PowerPoint Presentation Upload II
Graduate Sessions	9:30 pm – 10:30 pm	PowerPoint Presentation Upload III
	4:00 pm – 5:00 pm	Moderator Training
	5:30 pm – 6:30 pm	Graduate Research Fellowship Programs (GRFP) <i>Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences, Humanities</i>
Doctoral Scholars	Following Dinner	Reception (Sponsored by Biocytogen)
	3:30 pm – 4:30 pm	Reunion & Welcome Back
	5:30 pm – 6:30 pm	Leadership Alliance Community Meeting
Administrators, Coordinators, Faculty & Guests	Following Dinner	Reception (Sponsored by Biocytogen)
	5:30 pm – 6:30 pm	Leadership Alliance Community Meeting

Saturday		
Everyone	9:00 am – 5:00 pm	Registration
	9:00 am – 5:00 pm	Professional Headshots
	9:00 am – 11:00 am	Student Oral Presentations Session I — <i>All Disciplines</i>
	9:15 am – 10:45 am	Student Poster Presentations — <i>All Disciplines</i>
	11:15 am – 12:45 pm	Student Oral Presentations Session II — <i>All Disciplines</i>
	2:45 pm – 4:15 pm	Student Oral Presentations III — <i>All Disciplines</i>
	4:20 pm – 4:40 pm	Break
	4:45 pm – 6:00 pm	Student Oral Presentations Session IV — <i>All Disciplines</i>
	7:00 pm – 9:00 pm	Dinner & Keynote Speaker
	9:30 pm – Midnight	Dance

Symposium At-A-Glance

Saturday Continued...		
Undergraduate Sessions	7:00 am – 7:30 am	Poster Setup
	7:30 am – 9:00 am	Post-Baccalaureate Opportunities (PREP & Gap Year Scholar Program) <i>Applied & Basic BioSciences, Engineering, Physical Sciences & MD-PhD</i>
	7:30 am – 9:00 am	The Art of the Statement of Purpose <i>Humanities & Social Sciences</i>
	1:00 pm – 2:30 pm	Graduate School, I Wish I Knew... <i>Applied & Basic BioSciences, Engineering, Physical Sciences & MD-PhD</i>
	1:00 pm – 2:30 pm	My Life as a Humanist <i>Humanities & Social Sciences</i>
	5:40 pm	Group Photo — ONLY FYRE Students
	6:15 pm	Group Photo — ONLY LAMI Students
Graduate Sessions	7:30 am – 9:00 am	Coincert, The Soundtrack to Financial Freedom
	1:00 pm – 2:30 pm	Post-Doc Opportunities
Doctoral Scholars	7:30 am – 9:00 am	Coincert, The Soundtrack to Financial Freedom
	7:30 am – 9:00 am	Fair Play Part I
	1:00 pm – 2:30 pm	Fair Play Part II
	1:00 pm – 2:30 pm	Post-Doc Opportunities
Administrators, Coordinators, Faculty & Guests	7:30 am – 9:00 am	Fair Play Part I
	1:00 pm – 2:30 pm	Fair Play Part II
	6:00 pm	Group Photo — Leadership Alliance Coordinators

Sunday		
Everyone	7:30 am – 10:00 am	Recruiting Fair Set-Up
	10:00 am – 11:00 am	Closing Plenary & Keynote
	11:00 am – 1:00 pm	Recruiting Fairs
	1:00 pm – 2:00 pm	Lunch to Go — Pick Up at Marriott
Undergraduate Sessions	8:30 am – 9:30 am	The Graduate School Application — <i>Sessions by Discipline</i>
Graduate Sessions	8:30 am – 9:30 am	Leadership Alliance Alumni Association Meeting
Doctoral Scholars	8:30 am – 9:30 am	Leadership Alliance Alumni Association Meeting
Administrators, Coordinators, Faculty & Guests	8:30 am – 9:30 am	Leadership Alliance Alumni Association Meeting

AGENDA 2018

Friday, July 27

Conference Registration	11:00 am – 5:00 pm	Esplanade
Power Point Upload Session I	11:00 am – 3:00 pm	Ballroom Pre-Function
Networking Lunch – Everyone	12:00 pm – 2:00 pm	Ballroom B

Break > 2:00 pm – 3:00 pm

3:00 pm – 5:00 pm | Undergraduates by Discipline Orientation [What is LANS?] / Funding / Networking Sessions by Discipline

Applied & Basic Biosciences Meeting Room 24–26

Moderators: **Eric Buckles**, Program Coordinator and Associate Professor of Biology School of Science, Technology, Engineering and Mathematics (STEM); **Sheila Thomas**, Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University

Funding Your Education Panel:

Leah Gibbons, Coordinator, Student Programs, American Society for Microbiology

Joel Oppenheim, Research Professor, Department of Microbiology, Professor Emeritus of Microbiology, Department of Microbiology, New York University

Humanities & Social Sciences Meeting Room 21–22

Moderators: **Keisha John**, Director of Diversity Programs, Office of Graduate and Postdoctoral Affairs, University of Virginia; **Natalie Strobach**, Director of Undergraduate Research, Krieger School of Arts and Sciences, Johns Hopkins University

Funding Your Education Panel:

Leislle Godo-Solo, Associate Director, Institute for Recruitment of Teachers

Christine O'Brien, Ford Fellowship, The National Academy of Sciences, Engineering, and Medicine

Natalie Strobach, Director of Undergraduate Research, Krieger School of Arts & Sciences, Johns Hopkins University

Engineering and Physical Sciences Meeting Room 23

Moderators: **Don Brunson**, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University; **Ja'Wanda Grant**, Special Assistant to the Provost for Scholar Development and Institutional Alliances, Academic Affairs, Xavier University in Louisiana

Funding Your Education Panel:

Denise Ellis, Program Manager, Alfred P. Sloan Foundation Minority Graduate Scholarship Programs

Sara Xayarath Hernandez, Graduate School Associate Dean for Inclusion & Student Engagement University Diversity Officer, Cornell University

3:30 pm – 4:30 pm

Doctoral Scholars Reunion/Welcome Back Meeting Room 13

4:00 pm – 5:00 pm

Moderators Training Meeting Room 27

Moderator: D’Ondre Swails, Graduate Student Africana Studies, Brown University

5:30 pm – 6:30 pm

Graduate Research Fellowship Programs (GRFP) Meeting Room 24-26

Moderator: David Stout, Assistant Professor, Department of Mechanical & Aerospace Engineering, California State University, Long Beach

(This session is for Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences)

5:30 pm – 6:30 pm

Leadership Alliance Community Meeting Meeting Room 11

Moderator: Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

5:30 pm – 6:30 pm

Power Point Upload Session II Ballroom Pre-Function

Dinner > Doors open at 6:30 pm

7:00 pm – 9:00 pm

Welcome Dinner – Open Plenary Ballroom B

Moderator: Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

Speakers:

Amalia Figueroa, Sales Manager, Biocytogen

Jade Carter Gibbons, Forensic Scientist, Ventura County Sheriff’s Office Forensic Services Bureau

Malo Hutson, Associate Professor in Urban Planning, Founder & Director of the Urban Community & Health Equity Lab, Columbia University

Chelsea Pinnix, Assistant Professor, Department of Radiation Oncology, Division of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX

Edgardo Sanabria-Valentín, Associate Director of the Program for Research Initiatives in Science & Math, John Jay College (CUNY)

Following Dinner

Reception (*Sponsored by Biocytogen*) City Side Lounge

Administrators, Coordinators, Doctoral Scholars, Faculty, Graduate Students, and Guests

9:30 pm – 10:30 pm

Power Point Upload Session III Ballroom Pre-Function

Saturday, July 28

7:00 am - 7:30 am

Posters Setup Ballroom C

Breakfast > 7:30 am – 9:00 am

Applied & Basic Biosciences, Engineering, Physical Sciences, & MD-PhD (Undergraduates)

Post-Baccalaureate Opportunities (PREP & Gap Year Scholar Program) Ballroom B

Moderator: Arnaldo Diaz, Assistant Dean for Research Training Programs, University of Pennsylvania

Speakers:

Raquel Castellanos, Assistant Director, Office of Research and Diversity, University of Pennsylvania

Mareshia Donald, Scientific Programs Manager and Diversity & Inclusion Partner, Novartis Institutes for BioMedical Research

Humanities & Social Sciences (Undergraduates)

The Art of the Statement of Purpose Ballroom A

William Wittels, Manager of Undergraduate & Graduate Programs

Stephanie Parsons, Assistant Director of Diversity and Minority Affairs, Harvard University The Graduate School of Arts & Sciences

Asabe Poloma, Assistant Dean for International Students & Associate Director of the Mellon Mays Undergraduate Fellows Program

Natalie Strobach, Director of Undergraduate Research, Krieger School of Arts & Sciences, Johns Hopkins University

Graduate Students & Doctoral Scholars Breakfast

***new* Coinsert, The Soundtrack to Financial Freedom Marriott A&B**

Antionette Mutcherson, Director, Coinsetters

Makisha Cameron, Director, Coinsetters

Administrators, Coordinators, Doctoral Scholars, Faculty, and Guests

Fair Play Part I Marriott C

Moderator: Fair Play, Wisconsin Center for Education Research

9:00 am – 5:00 pm

Professional Headshots Ballroom Pre-Function

9:00 am – 5:00 pm

Leadership Alliance Conference Registration Esplanade

9:00 am – 11:00 am

Student Oral Presentations Session I

Applied & Basic Biosciences Meeting Rooms 11–12

Humanities & Social Sciences Meeting Rooms 13, 23, 26, 27

Engineering & Physical Sciences Meeting Room 13

9:15 am – 10:45 am

Student Poster Presentations Ballroom C

11:15am – 12:45 pm

Student Oral Presentations Session II

Applied & Basic Biosciences Meeting Rooms 11–17

Engineering & Physical Sciences Meeting Rooms 21–23

Humanities & Social Sciences Meeting Rooms 24–27

Lunch > Served 1:00 pm**Concurrent Sessions for Undergraduates Conducted from 1:30 pm – 2:30 pm****Undergraduates in Applied & Basic Biosciences, MD-PhD, Engineering & Physical Sciences****Grad School, I Wish I Knew** **Ballroom B****Moderator:** Marcus Jones, Sr. Manager, R&D Planning, Strategy & Operations, Regeneron Pharmaceuticals, Inc.**Speakers:**Daniel Cabrera, 6th Year MD-PhD, Weill Cornell MedicineRobert Gutierrez, 2nd Year Bioengineering, Brown UniversityJean Rivera, 2nd Year Neuroscience, Weill Cornell Graduate School of Medical SciencesAsais Camila Uzcategui, 3rd Year Materials Science and Engineering, University of Colorado Boulder**Undergraduates in Humanities & Social Science****My Life as a Humanist** **Ballroom A****Moderator:** Olivia Mansion, Manager of Operations, Entrepreneurship Center, The University of Tampa**Speaker:** Marisa Galvez, Associate Professor of French and, by courtesy, of German Studies, Chair of Undergraduate Studies, French, Stanford University**Graduate Students & Doctoral Scholars*****new* Post Doc Opportunities** **Marriott A&B****Moderator:** Brittany Allison, SyNERGI Postdoctoral Fellow**Panelists:**

Teresa Ramirez, Program Manager, Federation of American Societies for Experimental Biology

Kathryn Haklin, Postdoctoral Fellow, Johns Hopkins University;

Tracy Costello, Chair, Board of Directors, National Postdoctoral Association

Lyndon Mitnaul, Director, R&D Planning, Strategy and Operations, Regeneron Pharmaceuticals, Inc.

Administrators, Coordinators, Doctoral Scholars, Faculty, and Guests**Fair Play Part II** **Marriott C****Moderator:** Fair Play, Wisconsin Center for Education Research

2:45pm – 4:15pm

Student Oral Presentations Session III

Applied & Basic Biosciences Meeting Rooms 11–17

Engineering & Physical Sciences Meeting Rooms 21–23

Humanities & Social Sciences Meeting Rooms 24–27

Break > 4:20 pm – 4:40 pm

4:45 pm – 6:00 pm

Student Oral Presentations Session IV

Applied & Basic Biosciences	Meeting Rooms 11–17
Engineering & Physical Sciences	Meeting Rooms 21–23
Humanities & Social Sciences	Meeting Rooms 24–27

**Leadership Alliance Photos for the Following Groups ONLY:
CTCC Carpeted Stairs on Exhibitor Level**

FYRE Students	5:40 pm
L.A. Coordinators	6:00 pm
LAMI Students	6:15 pm

Dinner > Doors open at 6:30 pm

7:00 pm – 9:00 pm

Dinner, Keynote Speaker	Ballroom B
Moderators: Medeva Ghee , Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University	
Arnaldo Diaz , Assistant Dean for Research Training Programs, University of Pennsylvania	
Keynote Speaker: Dr. Yajaira Sierra-Sastre , Co-Founder and CEO, Science in Space	

9:30 pm – Midnight

Dance	Ballroom A
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Sunday, July 29

7:30 am – 10:00 am

Exhibitors Set-up for Recruiting Fair	Ballroom C
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Breakfast Sessions > 8:30 am – 9:30 am

Undergraduate Breakfast and Panels: The Graduate School Application

Applied & Basic Biosciences	Ballroom B
Speakers:	
Arnaldo Diaz , Assistant Dean for Research Training Programs, University of Pennsylvania	
Sheila Thomas , Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University	
Marcus Lambert , Director of Diversity and Student Services, Graduate School of Medical Sciences, Weill Cornell Graduate School of Medical Sciences	

MD-PhD Meeting Room 21-22

Speakers:

Brian Sullivan, Executive Director of the Medical Scientist Training Program, Washington University in St. Louis
Fred Gorelick, Henry J. and Joan W. Binder Professor of Medicine (Digestive Diseases) and of Cell Biology; Deputy Director, Yale M.D., Ph.D. Program
Naoko Tanese, Associate Dean for Biomedical Sciences, Director, Sackler Institute of Graduate Biomedical Sciences, Professor, Department of Microbiology, New York University
Megan Williams, Assistant Director for Recruitment & Admissions, Medical Scientist Training Program, Vanderbilt University

Humanities & Social Sciences Meeting Room 25-26

Speakers:

Natalie Strobach, Director of Undergraduate Research, Krieger School of Arts and Sciences, Johns Hopkins University
Pat Rea, Associate Director at University of Pennsylvania, Graduate Division SAS, University of Pennsylvania
Joseph Brown, Graduate Diversity Recruitment Officer Stanford University

Engineering and Physical Sciences Meeting Room 24

Speakers:

Don C. Brunson, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University
Michelle Nearon, Associate Dean for Graduate Student Development and Diversity, Yale University

8:30 am – 9:30 am

Leadership Alliance Alumni Association Meeting Meeting Room 11

10:00 am – 11:00 am

Closing Plenary Ballroom B

Moderators: Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University
Cynthia Neal Spence, Social Justice Fellows Program Director, UNCF/Mellon Programs Director and Associate Professor, Spelman College
Keynote Speaker: Rev. Dr. Neichelle Guidry, Dean of Sisters Chapel, Spelman College

11:00 am – 1:00 pm

Recruiting Fair Ballroom C

11:00 am – 12:00 pm

Closed IPERT Committee Meeting Meeting Room 26

1:00 pm – 2:00 pm

Lunch Pick-Up Marriott Hotel 2nd Floor

KEYNOTE SPEAKERS

SATURDAY: Dr. Yajaira Sierra-Sastre

SUNDAY: Rev. Dr. Neichelle R. Guidry



DR. YAJAIRA SIERRA-SASTRE is a materials scientist and educator with ten years of research experience in academic, federal, and private institutions. Yajaira received her BS degree in chemistry and teacher's certification from the University of Puerto Rico-Mayaguez. After college, she returned to her hometown Arroyo and taught chemistry at her former high school. At the end of the academic year, Yajaira was awarded a summer research fellowship for teachers at Stanford University. There she discovered her passion for nanotechnology and returned home to work at the NASA Research Center for Advanced Nanoscale Materials at the University of Puerto Rico-Río Piedras, where she investigated materials for space applications. After gaining valuable research experience, Yajaira decided to pursue graduate studies at Cornell

University and obtained a Ph.D. in nanomaterials chemistry in 2009. As part of her doctoral thesis, Dr. Sierra-Sastre worked as a researcher at Los Alamos National Laboratory. Upon graduation, she joined a nanotechnology start-up company where she developed coating processes for multinational clients in the military, environment, medical diagnostics, and textile sectors.

Yajaira is currently dedicated to developing her own social enterprise, which focuses on providing mentoring and professional development opportunities to students from socially disadvantaged communities in Puerto Rico. She also collaborates on a variety of projects with the National Nanotechnology Infrastructure Network and the Cornell Nanoscale Facility, including the smallest national anthem ever written 'La Borinqueña más pequeña'. Her work in nanotechnology, educational outreach, and her aspirations to become the first Puerto Rican female astronaut have been recently featured in televised, radio, and news media. Her interests also include suborbital materials research, nanomaterials for the energy sector and technology commercialization in Latin America and Puerto Rico. In her spare time, Yajaira enjoys Latin dance, theatre, outdoor activities, and international cuisine.



Rev. Dr. Neichelle R. Guidry is a spiritual daughter of New Creation Christian Fellowship of San Antonio, Texas, where the Bishop David Michael Copeland and the Rev. Dr. Claudette Anderson Copeland are her pastors and where she was ordained to ministry in 2010. She is a graduate of Clark Atlanta University (2007, BA, Lambda Pi Eta) and Yale Divinity School (2010, M.Div.), where she was the 2010 recipient of the Walcott Prize for Clear and Effective Public and Pulpit Speaking. She is also a graduate of Garrett-Evangelical Theological Seminary (2017), where she completed her Doctor of Philosophy in the area of Liturgical Studies with a concentration in Homiletics. Her dissertation is entitled, "Towards a Womanist Homiletical Theology for Subverting Rape Culture." She currently serves

as the Dean of the Chapel and the Director of the WISDOM Center at Spelman College in Atlanta, Georgia. She is the creator of *shepreaches*, a virtual community and professional development organization that aspires to uplift African-American millennial women in ministry through theological reflection, fellowship, and liturgical curation. For six years, she served as the Associate Pastor to Young Adults and the Liaison to Worship and Arts Ministries in the Office of the Senior Pastor at Trinity United Church of Christ on the South side of Chicago, where the Rev. Dr. Otis Moss, III is the Senior Pastor. She served as the 2016 Preacher/Pastor-In-Residence at the Black Theology and Leadership Institute at Princeton Theological Seminary. She was listed as one of "12 New Faces of Black Leadership" in TIME Magazine (January 2015). She was recognized for "quickly becoming one of her generation's most powerful female faith leaders" on Ebony Magazine's 2015 Power 100 list (December 2015), and one of "Ten Women of Faith Leading the Charge Ahead" by Sojourners (March 2017). Additionally, Rev. Dr. Neichelle and the work of *shepreaches* were featured in the *New York Times* (April 3, 2015). She is a contributor to *What Would Jesus Ask?: Christian Leaders Reflect on His Questions of Faith* (Time Books, 2015), and the author of *Curating a World: Sermonic Words from a Young Woman Who Preaches* (self-published, June 2016). She is a proud member of Delta Sigma Theta Sorority, Incorporated.

Oral Presentations by Name

Abalo-Toga, Mariam **4:45 PM, CC-21**

Using machine learning to aid in the classification of galaxy morphology

Research Mentor: Meg Urry
 Research Institution: Yale University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Meg Urry, Yale University
PS

Abbas, Leena **3:30 PM, CC-17**

The Evaluation of Smoke-Free Housing Policy - Field Data Collection Methods and Baseline Results of Cigarette Butt Quantification

Research Mentor: Lorna Thorpe
 Research Institution: New York University
 Home Institution: Wayne State University
 Co-Authors: Lorna Thorpe, New York University
AB

Acevedo, Sergio **5:00 PM, CC-16**

Structure of G-protein Heterotrimer-Class C GPCR Complexes: Mutagenesis and Implementation of Dominant Negative Ga Subunits

Research Mentor: Qing Fan
 Research Institution: Columbia University
 Home Institution: UPR-Aguadilla
 Co-Authors: Aure Frangaj and Qing Fan, Columbia University
BB

Adelgren, Paul **4:45 PM, CC-23**

Imaging Magnetic Domains and Skyrmions with MOKE Microscopy

Research Mentor: Margaret Murnane
 Research Institution: University of Colorado Boulder
 Home Institution: Fort Lewis College
 Co-Authors: Margaret Murnane, University of Colorado Boulder
PS

Agarwal, Astha **9:00 AM, CC-23**

Exploring the Relationships Between Parent-Child Interactions, Teacher-Student Interactions, and Executive Functioning

Research Mentor: Khara Turnbull
 Research Institution: University of Virginia
 Home Institution: McGill University
 Co-Authors: Khara Turnbull, Aliza Husain and Kathryn Smith, University of Virginia
SS

Alexander, Ezra **5:00 PM, CC-23**

LiCH: An Ab Initio Investigation

Research Mentor: David Mazziotti
 Research Institution: University of Chicago
 Home Institution: Amherst College
 Co-Authors: David Mazziotti, University of Chicago
PS

Presentation Categories Key

AB Applied Biosciences
Molecular Processes and Genetics, Biochemistry

BB Basic Biosciences
Human Biology & Disease, Public Health, Biomedical Engineering

EN Engineering
Mechanical, Electrical & Materials Engineering

ES Earth Science
Environment Sciences, Geosciences, Marine Sciences

HU Humanities
Literature, Language Arts, History, Media

PE Policy & Ethics
Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS Physical Science
Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS Social Science
Sociology, Economics, Psychology, and Behavior Sciences

Alvarez, Emmanuel 4:45 PM, CC-13

Oxycodone exposure during gestation and early postnatal development in rat pups and its influence on ultrasonic vocalizations in a maternal separation paradigm

Research Mentor: Amelia Eisch
 Research Institution: University of Pennsylvania
 Home Institution: Rowan University
 Co-Authors: Giulia Zanni and Amelia J. Eisch, University of Pennsylvania

BB

Alvarez, Guillermo 11:15 AM, CC-21

Insights into the Water Content of the Lunar Mantle from Pyroclastic Deposits

Research Mentor: Christian Huber
 Research Institution: Brown University
 Home Institution: UMass Lowell
 Co-Authors: Christian Huber and Ralph E. Milliken, Brown University

ES

Amador Martínez, Karimar 9:30 AM, CC-12

The Role of Hedgehog Signaling on T Regulatory Cell Function in the CNS

Research Mentor: Jorge Alvarez
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Mayaguez
 Co-Authors: Jorge Alvarez and Trini Ochoa, University of Pennsylvania

AB

Aponte, Natalia 9:00 AM, CC-11

What are the kinetics for the return of Xist RNA to the inactive X (Xi) during T cell activation?

Research Mentor: Montserrat Anguera
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Montserrat C. Anguera, University of Pennsylvania

BB

Arboniés, Valeria 10:30 AM, CC-23

Counter Publishing Practices: How Independent Publishers in Puerto Rico and Mexico Reshape the Latin American City

Research Mentor: Arlene Davila
 Research Institution: New York University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Arlene Davila, New York University

HU

Archuleta, Chloe 2:45 PM, CC-13

Factor VIII mutants for hemophilia A inhibitor studies

Research Mentor: Rodney Camire
 Research Institution: University of Pennsylvania
 Home Institution: Colorado School of Mines
 Co-Authors: Rodney Camire and Benjamin Samelson-Jones, University of Pennsylvania

AB

Arizaga, Fidel 9:00 AM, CC-13

Identifying Stages of Cell Division Through a Convolutional Neural Network

Research Mentor: Meredith Betterton
 Research Institution: University of Colorado Boulder
 Home Institution: UC Santa Cruz
 Co-Authors: Saad Ansari, Dante Begay, Michael Nothem and Meredith Betterton, University of Colorado Boulder

PS

Arrington, Myles 12:15 PM, CC-26

The Development and Utilization of Spatial Skills in Children and College Students

Research Mentor: Jamie Jirout
 Research Institution: University of Virginia
 Home Institution: University of Maryland, College Park
 Co-Authors: Jamie Jirout and Sierra Eisen, University of Virginia

SS

Asfaw, Zerubabbel 3:00 PM, CC-13

The common variant of HNF1A gene, I27L, alters clinical features of patients with HNF1A- MODY

Research Mentor: Louis Philipson
 Research Institution: University of Chicago
 Home Institution: Franklin and Marshall College
 Co-Authors: Louis Philipson and Lisa Letourneau, University of Chicago

AB

Astorino, Morgan 5:00 PM, CC-24

How do changes in zoning influence the location of green spaces?

Research Mentor: Scott Frickel
 Research Institution: Brown University
 Home Institution: Rutgers University
 Co-Authors: Thomas Marlow and Scott Frickel, Brown University

SS

Azziz, Annabel 4:45 PM, CC-15

Maintenance of Imprinting at the Dlk1-Dio3 Locus in Induced Pluripotent Stem Cells

Research Mentor: Eftychia Apostolou
 Research Institution: Weill Cornell Graduate School
 Home Institution: Fordham University
 Co-Authors: Boaz Aronson, Laurianne Scourzic and Eftychia Apostolou, Weill Cornell Graduate School

BB

Báez-Caraballo, Francelis 10:45 AM, CC-23

Impact of Mandatory Minimum Reforms in the United States over Racial-Ethnic Disparities in Sentence Length from 2000-2015

Research Mentor: Terry-ann Craigie
 Research Institution: Brown University
 Home Institution: UPR-Mayaguez
 Co-Authors: Terry-Ann Craigie, Brown University

SS

Barclay, Kara 3:00 PM, CC-12

Protein Methylation in Estrogen Receptor Alpha Signaling

Research Mentor: Ryan Blawski

Research Institution: Weill Cornell Medical College

Home Institution: Amherst College

Co-Authors: Ryan Blawski, Weill Cornell Graduate School

BB

Barraza, Isabel 2:45 PM, CC-23

Electrochemical activation of small molecules of energy and environmental impact

Research Mentor: Thomas Jaramillo

Research Institution: Stanford University

Home Institution: University of Texas at El Paso

Co-Authors: Joel Sanchez and Thomas Jaramillo, Stanford

University

EN

Barrera, Maribel 11:15 AM, CC-14

Quantification and examination of “offset” patterns in heat maps used for analysis of transcription factor activity

Research Mentor: Robin Dowell

Research Institution: University of Colorado Boulder

Home Institution: University of North Texas

Co-Authors: Robin Dowell, University of Colorado Boulder

BB

Barrientos, Eric 11:15 AM, CC-15

Roles for Novel PIM1 Substrates in Prostate Cancer

Research Mentor: Michael Garabedian

Research Institution: New York University

Home Institution: Arizona State University

Co-Authors: Sophie Ruff, Susan K. Logan and Michael J.

Garabedian, New York University

BB

Beasley, Tykira 9:00 AM, CC-26

The Drunken Jaguar of Courage: An Iconographic Study of an Ancient Maya Drinking Vessel

Research Mentor: Adriana Greci Green

Research Institution: University of Virginia

Home Institution: Elizabeth City State University

Co-Authors: Adriana Greci Green, University of Virginia

SS

Bechtel, John 9:15 AM, CC-11

*Sterility as a Modulator of Healthspan and Age Related Pathologies in *Caenorhabditis elegans*.*

Research Mentor: Sylvia Lee

Research Institution: Cornell University

Home Institution: Wisconsin Lutheran College

Co-Authors: Siu Sylvia Lee and Amaresh Chaturbedi, Cornell

University

BB

Bennett, Grant 12:00 PM, CC-24

Black Engineering and Computing Leadership in Higher Education

Research Mentor: Ebony McGee

Research Institution: Vanderbilt University

Home Institution: Morehouse College

Co-Authors: Ebony O. McGee, Devin T. White and Monica L.

Ridgeway, Vanderbilt University

SS

Berglund, Alysia 12:30 PM, CC-27

Age Differences in Implicit and Explicit Attitudes Toward Mental Health Treatment

Research Mentor: Bethany Teachman

Research Institution: University of Virginia

Home Institution: University of Hawaii Manoa

Co-Authors: Alexandra J. Werntz and Bethany A. Teachman,

University of Virginia

SS

Berryman, Glenesha 5:45 PM, CC-27

Do You Hear Me, Do You Feel Me? We Gon’ Be Alright: Black Cultural Production in the Trump Era

Research Mentor: Obery Hendricks

Research Institution: Columbia University

Home Institution: East Carolina University

Co-Authors: Obery Hendricks and Farah Jasmine Griffin,

Columbia University

HU

Bordes, Taylor 3:15 PM, CC-14

Investigation of HIV-1 Nucleocapsid Binding to Viral RNA

Research Mentor: Micheal Summers

Research Institution: University of Maryland, Baltimore County

Home Institution: Spelman College

Co-Authors: Canessa Swanson, Michael Summers, Darin

Gilchrist, Brittany Lafaver and Noel Getachew, University

of Maryland, Baltimore County

AB

Bostick, Maya 10:00 AM, CC-13

Who Helps Who and How? Comparing the Helping Orientations of Black and White Men Working in Elite Jobs

Research Mentor: Stephanie Creary

Research Institution: University of Pennsylvania

Home Institution: Spelman College

Co-Authors: Stephanie J. Creary, Brianna Barker Caza, LTC

Hise O. Gibson, Laura Morgan Roberts and Arran Caza,

University of Pennsylvania

SS

Boza, Juan 5:00 PM, CC-21

Construction of a Hybrid Fourier Ptychography Microscope Incorporating LEDs and X-rays

Research Mentor: Peter Johnsen

Research Institution: University of Colorado Boulder

Home Institution: Florida International University

Co-Authors: Margaret Murnane, University of Colorado Boulder

PS

Bracero, Sabrina 4:00 PM, CC-16*Sphingosine 1-Phosphate and Inflammation*

Research Mentor: Susan Schwab
 Research Institution: New York University
 Home Institution: College of William & Mary
 Co-Authors: Susan Schwab and Audrey Baeyens, New York University

BB**Brandom, Amyre** 5:15 PM, CC-27*Ethel Robinsons' Divine Nine Sorority Influence*

Research Mentor: Jennifer Betts
 Research Institution: Brown University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Jennifer Betts, Brown University

HU**Bugay, John Paul** 5:00 PM, CC-15*Developing a Degron System to Conditionally Deplete Transcription Factors in Pluripotent Cells*

Research Mentor: Matthias Stadfeld
 Research Institution: New York University
 Home Institution: San Francisco State University
 Co-Authors: Matthias Stadfeld and Ly-Sha Ee, New York University

BB**Burnette, Timothy** 3:00 PM, CC-23*Measuring the Effects of Drought in Plant Communities: Developing Functional Traits and Measuring Trait Variability in Xeric Tallgrass Prairie.*

Research Mentor: Katharine Suding
 Research Institution: University of Colorado Boulder
 Home Institution: Grinnell College
 Co-Authors: Julie Larson, Isabel Schroeter and Katharine Suding, University of Colorado Boulder

ES**Butts, Thalia** 4:00 PM, CC-27*Do It for the Culture: Limitations of the HBCU Experience in "The Quad"*

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Claflin University
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Buxenstein, Caroline** 5:00 PM, CC-26*Bodies Behind the Lines: A Look at Quarantine in Albert Camus' The Plague*

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Calcano, Gabriela** 5:00 PM, CC-13*Oxycodone with or without conditioned place preference alters hippocampal mossy fiber leu-enkephalin levels in a sex-dependent manner.*

Research Mentor: Batsheva Reich
 Research Institution: Weill Cornell Graduate School
 Home Institution: Brandeis University
 Co-Authors: Batsheva Reich and Teresa Milner, Weill Cornell Medical College

BB**Candelaria Jimenez, Astrid** 12:00 PM, CC-14*Characterization of anti-Cav nanobodies using dimerization-dependent fluorescent proteins*

Research Mentor: Henry Colecraft
 Research Institution: Columbia University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Travis Morgenstern and Henry Colecraft, Columbia University

BB**Canelo, Ricardo** 9:15 AM, CC-23*How School Racial Demographics And Perceived Fit Seem To Affect Beginning Teacher Self-Efficacy*

Research Mentor: Peter Youngs
 Research Institution: University of Virginia
 Home Institution: New York University
 Co-Authors: Peter Youngs, University of Virginia

SS**Cannata, Angela** 3:15 PM, CC-12*Zinc Dynamics in Kinase Cell Signaling*

Research Mentor: Amy Palmer
 Research Institution: University of Colorado Boulder
 Home Institution: CSU Northridge
 Co-Authors: Kelsie J. Anson and Amy Palmer, University of Colorado Boulder

BB**Cannon, Alysa** 10:30 AM, CC-27*Pupillary Synchronization as a Predictor of Music Popularity*

Research Mentor: Feng Sheng
 Research Institution: University of Pennsylvania
 Home Institution: Temple University
 Co-Authors: Feng Sheng and Michael Platt, University of Pennsylvania

SS**Carr, Katherine-Ann** 5:45 PM, CC-21*Diagnosing the Morphology of Galaxies using Machine Learning.*

Research Mentor: Meg Urry
 Research Institution: Yale University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Meg Urry and Aritra Ghosh, Yale University

PS

Carrera, Maria 11:30 AM, CC-15

Defining the role of LSD1 in epithelial homeostasis and carcinogenesis

Research Mentor: Brian Capell
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Mayaguez
 Co-Authors: Brian Capell, Amy Anderson and Shaun Egolf,
 University of Pennsylvania

BB

Carter, Davell..... 12:30 PM, CC-15

Determining the Effect of a SOS Mimetic Peptide that Selectively Targets KRAS G12C Mutated Cancers

Research Mentor: Dafna Bar-Sagi
 Research Institution: New York University
 Home Institution: Jackson State University
 Co-Authors: Daniel Yoo, Andrew Hauser, Dafna Bar-Sagi and
 Paramjit Arora, New York University

AB

Ceballos, Victor..... 11:45 AM, CC-17

Understanding The Effects of Adipocyte ODC1 on Obesity-Driven Breast Cancer

Research Mentor: Paul Cohen
 Research Institution: Weill Cornell Medical College
 Home Institution: Franklin and Marshall College
 Co-Authors: Paul Cohen and Olivia Maguire, Weill Cornell
 Medical College

AB

Chapekis, Athena..... 10:45 AM, CC-26

Trends in Absolute Mobility and Loss

Research Mentor: David Grusky
 Research Institution: Stanford University
 Home Institution: Miami University
 Co-Authors: David Grusky and Maximilian Hell, Stanford
 University

SS

Chau, Isabelle 5:30 PM, CC-13

Mapping the Cell Types and Brain Regions Affected by Early Amyloid-Beta Pathology in a Transgenic Mouse Model

Research Mentor: Makoto Ishii
 Research Institution: Weill Cornell Medical College
 Home Institution: Stanford University
 Co-Authors: Makoto Ishii, Weill Cornell Medical College

AB

Cheji, Hind..... 3:00 PM, CC-26

Emboldened Heart: A Reading of Love as Conversion in Yazid Ibn Muawiya' Arabic Poem "Araka Toroban".

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Chikukwa, Ratidzai 3:15 PM, CC-26

Rethinking Domestic Music-Making in the Nineteenth Century: Performance Practice in Jane Austen Novels

Research Mentor: Timothy Rommen
 Research Institution: University of Pennsylvania
 Home Institution: CSU Fullerton
 Co-Authors: Timothy Rommen, University of Pennsylvania

HU

Chong, Michelle 11:15 AM, CC-22

Laser Locking and Stabilization for Exciting Atoms to Rydberg States and Simulating Spin Models

Research Mentor: Monika Schleier-Smith
 Research Institution: Stanford University
 Home Institution: University of Chicago
 Co-Authors: Monika Schleier-Smith and Ognjen Markovic,
 Stanford University

PS

Cirillo, Victoria 11:30 AM, CC-21

An Investigation Into Three Ultraluminous X-Ray Sources in NGC 891

Research Mentor: Vikram Dwarkadas
 Research Institution: University of Chicago
 Home Institution: Fordham University
 Co-Authors: Vikram Dwarkadas, University of Chicago

PS

Colon-Plaza, Sarah 9:30 AM, CC-11

Caspase activity without cell-death during regeneration in Drosophila melanogaster after exposure to IR

Research Mentor: Tin Tin Su
 Research Institution: University of Colorado Boulder
 Home Institution: Florida International University
 Co-Authors: Tin Tin Su, University of Colorado Boulder

BB

Contreras, Veronica 11:45 AM, CC-21

Differential RF Filter Design Using Surface-Acoustic-Wave Resonators

Research Mentor: Dimitra Psychogiou
 Research Institution: University of Colorado Boulder
 Home Institution: UC Davis
 Co-Authors: Dimitra Psychogiou, University of Colorado
 Boulder

EN

Coto, Andrea..... 11:15 AM, CC-23

"The Effect of Manufacturing Variables on the Mechanical Properties of Biopolymer-bound Soil Composites"

Research Mentor: Michael Lepech
 Research Institution: Stanford University
 Home Institution: San Jose State University
 Co-Authors: Michael Lepech, Mia Allende and Isamar Rosa,
 Stanford University

EN

Coto Villanueva, Miguel..... **11:30 AM, CC-23**

Chromium Redox Flow Battery for Safe, Affordable Grid Energy Storage

Research Mentor: Michael Marshak
 Research Institution: University of Colorado Boulder
 Home Institution: San Francisco State University
 Co-Authors: Michael Marshak, Brian Robb and Jona Koka,
 University of Colorado Boulder

PS

Cruz, Bianca **12:15 PM, CC-14**

Engineering Double Emulsion “Droplet-in-Droplet” Microreactors: Optimized Production, Flow Cytometry Sorting, & Single Droplet Deposition for High Throughput Cellular Analysis

Research Mentor: Polly Fordyce
 Research Institution: Stanford University
 Home Institution: California State Polytechnic University,
 Pomona
 Co-Authors: Kara Brower, Sandy Klemm, Catherine Carswell-
 Crumpton, Lisa Nichols and Polly Fordyce, Stanford
 University

AB

Cruz-Vazquez, Paula **10:45 AM, CC-12**

Towards identifying genes in oculomotor neurons

Research Mentor: David Schoppik
 Research Institution: New York University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Kristen D’Elia, Basak Rosti, Marlisa Shaw,
 Jeremy Dasen and David Schoppik, New York University

BB

Curry, Samuel **2:45 PM, CC-16**

Knocking down the Microtubule Detyrosinating Enzyme Vasohibin/SVBP in Rat Adult Cardiomyocytes and the effects on Contractility

Research Mentor: Ben Prosser
 Research Institution: University of Pennsylvania
 Home Institution: Morehouse College
 Co-Authors: Christina Chen and Benjamin L. Prosser,
 University of Pennsylvania

BB

Daughtry, MarChé..... **2:45 PM, CC-25**

Reframing Understandings of Disability Through Exploring Disabled Peoples’ Experiences with BDSM Play

Research Mentor: Tey Meadow
 Research Institution: Columbia University
 Home Institution: Williams College
 Co-Authors: Tey Meadow, Columbia University

SS

Davis, Liesel..... **12:15 PM, CC-11**

Pharmacogenetic Modulation of Oxytocin Neurons Affects Maternal Behavior in Mice

Research Mentor: Ioana Carcea
 Research Institution: New York University
 Home Institution: University of California Los Angeles UCLA
 Co-Authors: Ioana Carcea and Robert Froemke, New York
 University

BB

de Leon, Emily **11:15 AM, CC-24**

Americans by Fé: Prosperity Gospel Pentecostalism and Latino Assimilation

Research Mentor: Tony Tian-Ren Lin
 Research Institution: University of Virginia
 Home Institution: DePaul University
 Co-Authors: Tony Tian-Ren Lin, University of Virginia

HU

DeAngelis, Gabrielle **3:30 PM, CC-25**

Understanding Notions of Anti-Blackness Among Dominican Residents in the Northeastern United States

Research Mentor: Kevin Escudero
 Research Institution: Brown University
 Home Institution: Clark University
 Co-Authors: Kevin Escudero, Brown University

SS

Diaz, Jasmine **5:15 PM, CC-16**

The crystallization and purification of the DGKa Protien

Research Mentor: Ku-Lung Hsu
 Research Institution: University of Virginia
 Home Institution: Heritage University
 Co-Authors: Ku-Lung Hsu, University of Virginia

BB

Diaz, Jessikah **4:45 PM, CC-26**

Biopoetical Bodies: Tracing the Malleability of the Material Female Form in Wordsworth and Wollstonecraft

Research Mentor: Timothy Campbell
 Research Institution: University of Chicago
 Home Institution: University of California Los Angeles UCLA
 Co-Authors: Timothy Campbell, University of Chicago

HU

Dickerson, Edward **3:15 PM, CC-13**

Restoration of Joint Motion by rhPRG4 in Mutant Mice that Recapitulate CACP Syndrome in Humans

Research Mentor: Gregory Jay
 Research Institution: Brown University
 Home Institution: North Carolina A&T State University
 Co-Authors: Gregory D. Jay and Ling X. Zhang, Brown
 University

AB

Dorfeuille, Andy **2:45 PM, CC-15**

Biophysical Characterization Of A Redox Deficient Variant in Human Primase

Research Mentor: Walter Chazin
 Research Institution: Vanderbilt University
 Home Institution: Morehouse College
 Co-Authors: Walter J. Chazin and Lauren E. Salay, Vanderbilt University

BB

Dos-Santos, Reinaldo **2:45 PM, CC-21**

Investigation of Toughening Mechanisms for Polymer Films

Research Mentor: Yifu Ding
 Research Institution: University of Colorado Boulder
 Home Institution: Florida Atlantic University
 Co-Authors: Yifu Ding, University of Colorado Boulder

EN

Douglas, Raquel **4:45 PM, CC-24**

Reimagine: The Effect of the 2015 Houston METRO Network Reform on Access to Public Transit

Research Mentor: Mark Dean
 Research Institution: Columbia University
 Home Institution: Williams College
 Co-Authors: Mark Dean, Columbia University

SS

Dunn, Kameron **3:30 PM, CC-26**

Pain and Process: Inexpressibility in the Works of David Foster Wallace

Research Mentor: Mark Algee-Hewitt
 Research Institution: Stanford University
 Home Institution: Southeastern Oklahoma State University
 Co-Authors: Mark Algee-Hewitt, Stanford University

HU

Elliott, Eliza **2:45 PM, CC-24**

Loss of Righting Reflex and Alcohol Drinking Behaviors in High and Low Open Field Activity Strains of Mice

Research Mentor: Marissa Ehringer
 Research Institution: University of Colorado Boulder
 Home Institution: Hollins University
 Co-Authors: Marissa Ehringer and Winona Booher, University of Colorado Boulder

SS

Eruaga, Isaiah **3:00 PM, CC-15**

Regulation of translesion synthesis polymerases ϵ and κ in response to DNA replication stress

Research Mentor: Tony Huang
 Research Institution: New York University
 Home Institution: CSU Fullerton
 Co-Authors: Tony Huang, New York University

BB

Fausto, Alejandra **3:30 PM, CC-14**

Detection of dsRNA by Vaccinia virus E3L protein and Black Beetle virus B2 protein

Research Mentor: Susan Weiss
 Research Institution: University of Pennsylvania
 Home Institution: CSU Northridge
 Co-Authors: Yize Li and Susan Weiss, University of Pennsylvania

AB

Feliciano, Adariana **5:15 PM, CC-17**

The Effect of Lactate and Itaconate on Lung Epithelial Cell Metabolism and Function

Research Mentor: Gokhan Mutlu
 Research Institution: University of Chicago
 Home Institution: UPR-Mayaguez
 Co-Authors: Gokhan Mutlu, University of Chicago

BB

Flint, Jade **9:15 AM, CC-26**

The art of feasting: a Mesoamerican tradition of communal consumption

Research Mentor: Adriana Greci Green
 Research Institution: University of Virginia
 Home Institution: Howard University
 Co-Authors: Adriana Greci Green, University of Virginia

HU

Franco-Argueta, Kelvin **11:45 AM, CC-23**

Entering The World of Electronics

Research Mentor: Nathan Swami
 Research Institution: University of Virginia
 Home Institution: Old Dominion University
 Co-Authors: Swami, University of Virginia

EN

Frazer-Klotz, Zoe **12:00 PM, CC-26**

The Effects of waitlisting on Ingroup Association

Research Mentor: Shige Oishi
 Research Institution: University of Virginia
 Home Institution: Haverford College
 Co-Authors: Shige Oishi and Nick Buttrick, University of Virginia

SS

Freeman, Daniel **12:15 PM, CC-16**

Early Correlative Analyses of a Melanoma Trial

Research Mentor: Pratip Chattopadhyay
 Research Institution: New York University
 Home Institution: Clemson University
 Co-Authors: Pratip Chattopadhyay and Anabel Miller, New York University

AB

Gardner, Gwen..... **3:15 PM, CC-23**

Shear velocity and attenuation in the Hawaiian region from Rayleigh wave dispersion

Research Mentor: Donald Forsyth
 Research Institution: Brown University
 Home Institution: Cornell University
 Co-Authors: Donald Forsyth and Youyi Ruan, Brown University

ES

Gekow, Alex **3:00 PM, CC-21**

Permanent Ferroelectric Domain Inversion of Submicron Lithium Niobate Thin Film on Substrate

Research Mentor: Hong Tang
 Research Institution: Yale University
 Home Institution: UMass Amherst
 Co-Authors: Hong Tang and Juanjuan Lu, Yale University

PS

Gellineau, Hendryck..... **12:30 PM, CC-14**

Engineering more Efficient Gated CAR T Cell Vectors

Research Mentor: David Scheinberg
 Research Institution: Weill Cornell Graduate School
 Home Institution: Cornell University
 Co-Authors: David Scheinberg and Pedro Silberman, Weill Cornell Graduate School

AB

Gilliam, Nora..... **3:45 PM, CC-14**

Helicobacter Pylori Genetic Adaptation in Response to Gastric Inflammation and Other Environmental Factors

Research Mentor: Timothy Cover
 Research Institution: Vanderbilt University
 Home Institution: Indiana University Purdue University
 Co-Authors: Rhonda R. Caston, Holly M. Algood, M. Blanca Piazuolo, John T. Loh and Timothy L. Cover, Vanderbilt University

BB

Gladney, Gabriella..... **10:30 AM, CC-26**

Black Like Me: How Identity Politics have Shaped the Black Vote

Research Mentor: Keisha John
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Balfour, University of Virginia

SS

Gomez, Andrea..... **12:30 PM, CC-11**

Time-Dependent Role of Gadd45 on Gene Expression and Behavioral Flexibility

Research Mentor: Hongjun Song
 Research Institution: University of Pennsylvania
 Home Institution: University of Pennsylvania
 Co-Authors: Hongjun Song, Guo-li Ming, Kimberly Christian and Yijing Su, University of Pennsylvania

BB

Gomez, Steven..... **10:15 AM, CC-27**

*“A Framework to Think of Ourselves as a Nation”:
 Constructing Historical Memory in Colombia*

Research Mentor: Pablo Piccato
 Research Institution: Columbia University
 Home Institution: Princeton University
 Co-Authors: Pablo Piccato, Columbia University

HU

Gonzalez, Caroline **5:45 PM, CC-13**

Rapid Picture Naming using the Mobile Universal Lexicon Evaluation System (MULES) in Parkinson's Patients

Research Mentor: Laura Balcer
 Research Institution: New York University
 Home Institution: Dartmouth College
 Co-Authors: Laura J. Balcer, New York University

AB

Gonzalez, Ivette..... **5:15 PM, CC-13**

Multigenerational Impact of Developmental Nicotine Exposure on HDAC2 Abundance in Striatum and Frontal Cortex in Mice

Research Mentor: Jerry Stitzel
 Research Institution: University of Colorado Boulder
 Home Institution: San Diego State University
 Co-Authors: Heidi C. O'Neill, Jordan M. Buck and Jerry Stitzel, University of Colorado Boulder

BB

Gonzalez Di Tillio, Maria..... **3:00 PM, CC-16**

Characterizing the Role of Adam17 Y42N Mutant in Congenital Heart Disease

Research Mentor: Jose Lora
 Research Institution: Weill Cornell Medical College
 Home Institution: Harvard University
 Co-Authors: Jose Lora and Carl Blobel, Weill Cornell Medical College

BB

Green, Janelle..... **5:45 PM, CC-26**

*“O Men of Athens, My Dear Fellow Clergymen”:
 The Black Apologist in A Whitewashed Genre*

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Claflin University
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Guerra Schleske, Paulina..... **9:45 AM, CC-11**

Histone Modifications in the Pancreatic Islets of Intrauterine Growth Restricted Rats Modulate Transcription Factor Binding

Research Mentor: Yu-Chin Lien
 Research Institution: University of Pennsylvania
 Home Institution: Duke University
 Co-Authors: Rebecca Simmons, University of Pennsylvania

BB

Gutierrez, Frank **11:15 AM, CC-13**

The Role Of Metadata Analysis On Nascent Transcription
 Research Mentor: Robin Dowell
 Research Institution: University of Colorado Boulder
 Home Institution: CSU Los Angeles
 Co-Authors: Robin Dowell, Mary Allen, Ignacio Tripodi and Margaret Gruca, University of Colorado Boulder

BB

Halloran, Dakota **10:45 AM, CC-27**

More Human than Human: Being and the Removal of Artificiality in Blade Runner
 Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Hanna, Cassandra **5:15 PM, CC-24**

The Urban Redevelopment of Pittsburgh's Hill District
 Research Mentor: Andrew Kahl
 Research Institution: University of Virginia
 Home Institution: Fisk University
 Co-Authors: Andrew Kahl, University of Virginia

HU

Haoud, Caroline **3:15 PM, CC-15**

Investigating The Mechanism Of Histone Chaperone-Dependent RAD51 Loading During DNA Double Strand Break Repair

Research Mentor: Jessica Tyler
 Research Institution: Weill Cornell Medical College
 Home Institution: Columbia University
 Co-Authors: Faith Fowler and Jessica Tyler, Weill Cornell Graduate School

BB

Harmon, Nia **11:30 AM, CC-13**

Profiling global chromatin proteome and histone post-translational modifications upon knockdown of SWI/SNF via mass spectrometry

Research Mentor: Benjamin Garcia
 Research Institution: University of Pennsylvania
 Home Institution: Florida State University
 Co-Authors: Benjamin Garcia, Mariel Coradin and Kelly Karch, University of Pennsylvania

BB

Harris, Kennedy **4:45 PM, CC-12**

Characterization of Bacteriophage Lysin PlyKp17 Against Multi-Drug Resistant Klebsiella pneumoniae

Research Mentor: Vincent Fischetti
 Research Institution: Weill Cornell Medical College
 Home Institution: Tuskegee University
 Co-Authors: Assaf Raz and Vincent Fischetti, Weill Cornell Medical College

AB

Harris, Lauren **12:00 PM, CC-23**

Electrode Modifications for Detecting ATP and Adenosine
 Research Mentor: Barbara Jill Venton
 Research Institution: University of Virginia
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: B. Jill Venton and Jason Borgus, University of Virginia

PS

Harris, Marek **12:00 PM, CC-17**

Identifying novel cancer cell vulnerabilities associated with the mutant splicing factor U2AF1
 Research Mentor: John Ferrarone
 Research Institution: Weill Cornell Graduate School
 Home Institution: Stanford University
 Co-Authors: John Ferrarone and Harold Varmus, Weill Cornell Graduate School

AB

Hassane, Kinaya **3:45 PM, CC-27**

All Art is Propaganda: African American Art Collectors' Role in Mediating the Relationship between Black Art and Liberation Politics

Research Mentor: Tina Campt
 Research Institution: Columbia University
 Home Institution: Bowdoin College
 Co-Authors: Tina Campt, Columbia University

HU

Hayward-Lara, Gabriela **3:30 PM, CC-12**

BMP Signaling is Lit: Using YFP-tagged BMP receptors to track zebrafish development

Research Mentor: Mary Mullins
 Research Institution: University of Pennsylvania
 Home Institution: Princeton University
 Co-Authors: Mary Mullins and Benjamin Tajer, University of Pennsylvania

BB

Hernandez, Antonio **3:15 PM, CC-21**

Building a Low-Cost Cosmic Microwave Background Receiver

Research Mentor: Kamaljeet Saini
 Research Institution: University of Virginia
 Home Institution: Piedmont Virginia Community College
 Co-Authors: Kamaljeet Saini and John Effland, University of Virginia

EN

Hernandez, Kevin **5:00 PM, CC-12**

Determining The Specificity of Human Antibodies That Block H5N1 Avian Influenza Virus Infection

Research Mentor: Scott Hensley
 Research Institution: University of Pennsylvania
 Home Institution: North Carolina State University
 Co-Authors: Scott Hensley and Tyler Garretson, University of Pennsylvania

AB

Hernandez, Samuel 11:45 AM, CC-13

Modeling Epigenetic Heterogeneity and Age for Forensic Testing

Research Mentor: Christopher Mason
 Research Institution: Weill Cornell Medical College
 Home Institution: Knox College
 Co-Authors: Jonathan Foux and Christopher E. Mason, Weill Cornell Medical College

BB

Herran, Keren 11:30 AM, CC-22

Using Electronic Health Record Data and Geospatial Census Data to Create Effective Decision Tree Model for Readmission Risk after Orthopedic Surgery

Research Mentor: Jason Moore
 Research Institution: University of Pennsylvania
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Selah Lynch and Jason Moore, University of Pennsylvania

PS

Hester, Katelynn 9:15 AM, CC-27

Chahta Ahaya Moma: Cultural Shifts in the Choctaw Nation During the 18th and 19th Centuries

Research Mentor: Christian McMillen
 Research Institution: University of Virginia
 Home Institution: Southeastern Oklahoma State University
 Co-Authors: Christian McMillen, University of Virginia

HU

Hickman, Mia 3:30 PM, CC-27

Get Out of Wakanda: Comparing Black Audience reactions from Black Panther and Get Out

Research Mentor: Gertrude Fraser
 Research Institution: University of Virginia
 Home Institution: Morgan State University
 Co-Authors: Gertrude Fraser, University of Virginia

SS

Hinojo, Andy 11:30 AM, CC-12

The Effect of Higher Serum Levels of Endogenous 17Beta-Estradiol on Cerebral Ischemia Injury in Young Cyclic Female Rats

Research Mentor: Ami Raval
 Research Institution: University of Miami
 Home Institution: Iowa State University
 Co-Authors: Ami Raval, University of Miami

BB

Holness, Micah 4:00 PM, CC-24

Mindful Awareness Effects on Nicotine Addiction

Research Mentor: Ernestine Jennings
 Research Institution: Brown University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Ernestine Jennings, Shira Dunsiger and Beth Bock, Brown University

SS

Hsu, Jesse 11:45 AM, CC-22

Atomic Layer Deposition of Two-Dimensional Silica

Research Mentor: Eric Altman
 Research Institution: Yale University
 Home Institution: Ithaca College
 Co-Authors: Eric Altman, Yale University

EN

Hunter, Chanelle 11:45 AM, CC-15

Characterization of Receptor Expression and Aberrant Gli2 Signaling in Osteosarcoma Cells

Research Mentor: Julie Sterling
 Research Institution: Vanderbilt University
 Home Institution: University of Central Florida
 Co-Authors: Julie Sterling and Erik Beadle, Vanderbilt University

AB

Hwang, Jongin 5:30 PM, CC-17

Regulation of pancreatic beta-cell function by lipid post-translational modifications (PTMs): Role of ATP sensitive potassium (KATP) channels

Research Mentor: William Coetzee
 Research Institution: New York University
 Home Institution: University of Georgia
 Co-Authors: William Coetzee, Erkan Tuncay and Huaqian Yang, New York University

AB

Ibrahim, Reem 5:15 PM, CC-15

Proteomic Analysis of Extracellular Vesicles from Human Bone Marrow-derived Mesenchymal Stem Cells

Research Mentor: Ruhul Abid
 Research Institution: Brown University
 Home Institution: Smith College
 Co-Authors: Ruhul Abid and Karla Braga, Brown University

AB

Ikeokwu, Frances 4:00 PM, CC-25

Finding Community: Can Extracurricular Activities Be a Protective Factor for the Mental Health of Students of Color at a Predominantly White Institution?

Research Mentor: Noelle Hurd
 Research Institution: University of Virginia
 Home Institution: Edward Waters College
 Co-Authors: Noelle Hurd, Jamie Albright and Audrey Wittrup, University of Virginia

SS

Irwin, Laura 2:45 PM, CC-26

What Honour For The Female Sex: Representations Of Women's Power And Influence In The Luttrell Psalter

Research Mentor: Christopher Baswell
 Research Institution: Columbia University
 Home Institution: Saint Edward's University
 Co-Authors: Christopher Baswell, Columbia University

HU

Jackson, Amber **2:45 PM, CC-22**

Optimizing Norbornene Functionalized Hyaluronic Acid ElectroSpinning

Research Mentor: Beverly Miller
 Research Institution: University of Virginia
 Home Institution: George Mason University
 Co-Authors: Beverly Miller and Steven Caliarì, University of Virginia

EN

Jackson, Katelyn **5:00 PM, CC-11**

Antibiotic-Induced Changes in the Early Life Microbiota Composition and Susceptibility to Asthmatic Disease

Research Mentor: Martin Blaser
 Research Institution: New York University
 Home Institution: Mississippi State University
 Co-Authors: Martin Blaser, Timothy Borbet and Timothy Maher, New York University

BB

Jackson, Katelyn **12:00 PM, CC-21**

The Orbital Dynamics of Exosolar Planets

Research Mentor: Phillip Arras
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Phillip Arras, University of Virginia

PS

Jacobs, Malek **10:00 AM, CC-11**

Investigating the Role of BVES in Intestinal Wound Healing

Research Mentor: Yash Choksi
 Research Institution: Vanderbilt University
 Home Institution: Cornell University
 Co-Authors: Yash Choksi and Christopher S. Williams, Vanderbilt University

BB

Jalloh, Mariama **3:15 PM, CC-25**

Please Don't Cut Me: The Psychological Effects of Female Genital Mutilation

Research Mentor: Dr. Denise Walsh
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Denise Walsh, University of Virginia

SS

Jarrett, Isria **5:30 PM, CC-16**

Characterization of Novel Clostridium difficile Virulence Targets: A Structural Biology Approach

Research Mentor: D. Borden Lacy
 Research Institution: Vanderbilt University
 Home Institution: Belmont University
 Co-Authors: D. Borden Lacy and Heather Kroh, Vanderbilt University

BB

Jean, Erin **11:15 AM, CC-11**

Identification and Annotation of Pathogenic Gene Variants with Possible Implementation in High Functioning Autism Spectrum Disorder

Research Mentor: Maya Bucan
 Research Institution: University of Pennsylvania
 Home Institution: Hampton University
 Co-Authors: Jing Zhang, Lars Anderson and Maja Bucan, University of Pennsylvania

BB

Jean-Pierre, Makheni **3:30 PM, CC-11**

The Role of CtBP2 in Mediating Bcl-xL Promotion of Metastasis

Research Mentor: Yi-Chieh Nancy Du
 Research Institution: Weill Cornell Medical College
 Home Institution: SUNY Stony Brook
 Co-Authors: Yi-Chieh Nancy Du and Tiantian Zhang, Weill Cornell Medical College

AB

Jeewajee, Swarna **12:00 PM, CC-15**

Transcriptional Determinants of L-Asparaginase Response in Leukemia

Research Mentor: Robert Williams
 Research Institution: Weill Cornell Medical College
 Home Institution: Massachusetts Institute of Technology
 Co-Authors: Kivanc Birsoy and Robert Williams, Weill Cornell Medical College

BB

Jenkins Taylor, Vashti **10:00 AM, CC-26**

My Experience Learning to Curate Art featuring "Empty Eyes: An Analysis of the 'Death Eye' Motif in Pottery and Hieroglyphs"

Research Mentor: ADRIANA GRECI GREEN
 Research Institution: University of Virginia
 Home Institution: Florida A&M University
 Co-Authors: Adriana Greci Green, University of Virginia

HU

Jeronimo, Carlos **5:15 PM, CC-11**

The Role Of Cofilin Mediated F-Actin Clearance at the Immunological Synapse Upon T-Cell Activation

Research Mentor: Morgan Huse
 Research Institution: Weill Cornell Graduate School
 Home Institution: Lehman College CUNY
 Co-Authors: Morgan Huse and Elisa Sanchez, Weill Cornell Graduate School

BB

Ji, Jonathan **11:30 AM, CC-24**

Cruising Churches: Queer World-Making within Christianity

Research Mentor: Erica Robles-Anderson

Research Institution: New York University

Home Institution: New York University

Co-Authors: Erica Robles Anderson, New York University

HU

Johnson, Jafira **2:45 PM, CC-11**

Investigating Mechanisms of Action of a Novel Nucleoside Analog to Treat PEL and Pancreatic Adenocarcinoma.

Research Mentor: Ethel Cesarman

Research Institution: Weill Cornell Graduate School

Home Institution: University of Maryland, Baltimore County

Co-Authors: Ethel Cesarman and Jouliana Sadek, Weill

Cornell Graduate School

BB

Johnson, Jaleese **3:15 PM, CC-27**

How I See Myself: Black Women's Instagram Usage and Body Image

Research Mentor: Shanta Robinson

Research Institution: University of Chicago

Home Institution: Xavier University of Louisiana

Co-Authors: Shanta Robsinson, University of Chicago

SS

Jones, Erielle **11:45 AM, CC-24**

Faith Vision of Capital: Amiliorating White Debt in Multicultural Churches

Research Mentor: Tony Tian-Ren Lin

Research Institution: University of Virginia

Home Institution: University of Missouri-Columbia

Co-Authors: Tony Tian-Ren Lin, University of Virginia

SS

Karabinas, Isabella **9:45 AM, CC-12**

The Effects of Chronic Stress on Effort Valuation and Glutamatergic Signaling

Research Mentor: Puja Parekh

Research Institution: Weill Cornell Medical College

Home Institution: Oregon State University

Co-Authors: Puja Parekh, Weill Cornell Medical College;

Jonathan Witztum, Weill Cornell Graduate School;

Conor Liston, Weill Cornell Medical College

AB

Karod, Madeline **3:30 PM, CC-23**

Spatial Investigation of Atmospheric Ammonia and Ammonium Dynamics in Providence, RI

Research Mentor: Meredith Hastings

Research Institution: Brown University

Home Institution: Simmons College

Co-Authors: Meredith Hastings and Wendell Walters, Brown University

ES

Kattoura, Nicholas **11:30 AM, CC-26**

Resisting Victimhood: Demystifying the Western Opposition to Leila Khaled's Armed Insurgency

Research Mentor: Paula Chakravartty

Research Institution: New York University

Home Institution: Oberlin College

Co-Authors: Paula Chakravartty, New York University

HU

Keita, Nasitta **3:45 PM, CC-25**

Natural Mentorship, Racial Identity, and Positive Youth Development: How Extended and Fictive Kin Teach Black Adolescents About Race

Research Mentor: Noelle Hurd

Research Institution: University of Virginia

Home Institution: University of Wisconsin Madison

Co-Authors: Noelle Hurd, Janelle Billingsley and Audrey

Wittrup, University of Virginia

SS

Khalid, Mohammed **11:15 AM, CC-26**

Mass Media's Ideology of Middle Eastern Terror and the Impossibility of the Individual

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Home Institution: Community College of Baltimore County

Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Khalizova, Nailya **3:30 PM, CC-13**

Determining the Signaling Pathways in Endothelial Dysfunction During Cerebral Malaria

Research Mentor: Ana Rodriguez

Research Institution: New York University

Home Institution: Hunter College

Co-Authors: Ana Rodriguez and Marisol Zuniga, New York

University

BB

Khan, Asma **10:00 AM, CC-27**

Colonial Pinball: The Impossibility of a National Identity in Pachinko

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Home Institution: Community College of Baltimore County

Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Kijakazi, Dalia **12:15 PM, CC-25**

Beyond the Jade: Celts in Mesoamerica

Research Mentor: Adriana Greci-Green

Research Institution: University of Virginia

Home Institution: Spelman College

Co-Authors: Adriana Greci Green, University of Virginia

HU

Knight, Rayshawn 9:15 AM, CC-13*Structure and Dynamics of the HIV-1 Capsid-SP1 Junction Helix*

Research Mentor: Mike Summers
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Western Carolina University
 Co-Authors: Carly Sciandra, Arthur Chinery, Hana Flores and Emily Cannistraci, University of Maryland, Baltimore County

PS

Krikorian, Georgia 4:45 PM, CC-14*Group II mGluR Modulation in Psychiatric Disorders*

Research Mentor: Joshua Levitz
 Research Institution: Weill Cornell Medical College
 Home Institution: Smith College
 Co-Authors: Joshua Levitz and Vanessa Gutzeit, Cornell University

AB

Lane, Amanda 10:15 AM, CC-26*The Colima Dog Effigy: Companion in Life and Death*

Research Mentor: Adriana Greci Green
 Research Institution: University of Virginia
 Home Institution: Whittier College
 Co-Authors: Adriana Greci-Green, University of Virginia

HU

LaRiccia, Dante 12:30 PM, CC-25*Fortunes and Tellers: Bank Speculation, the Public, and the Baltimore Riots of 1835*

Research Mentor: Daniel Jütte
 Research Institution: New York University
 Home Institution: New York University
 Co-Authors: Dante LaRiccia and Daniel Jutte, New York University

HU

Laureore, Emily 11:15 AM, CC-27*How did the Structure of WHO Impede Its Response to the Ebola Outbreak in 2014 and Has It Improved Since?*

Research Mentor: Keisha John
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Michael Smith, University of Virginia

PE

Lawrence, Aliana 3:45 PM, CC-17*Defining the Associations Between Lifestyle Factors and Colorectal Cancer Risk in the Southern Community Cohort Study*

Research Mentor: Shaneda Warren Andersen
 Research Institution: Vanderbilt University
 Home Institution: Spelman College
 Co-Authors: Shaneda Warren Andersen, Vanderbilt University

AB

Lerch, Cameron 3:00 PM, CC-22*Encoding Multidirectional Memory in Sheared Amorphous Solids*

Research Mentor: Corey O'Hern
 Research Institution: Yale University
 Home Institution: Missouri University of Science & Technology
 Co-Authors: Corey O'Hern and Meng Fan, Yale University

PS

Lojano, Andres 10:00 AM, CC-12*Inflammation and White Matter Degeneration after Traumatic Brain Injury in Swine*

Research Mentor: Michael Grovola
 Research Institution: University of Pennsylvania
 Home Institution: Hunter College
 Co-Authors: Michael Grovola and Kacy Cullen, University of Pennsylvania

AB

Luck, Cuyler 11:15 AM, CC-16*Quantifying minimal residual disease in breast cancer dormancy*

Research Mentor: Lewis Chodosh
 Research Institution: University of Pennsylvania
 Home Institution: Pennsylvania State University
 Co-Authors: Lewis Chodosh, Francesco Marino, Joe Kim, Amulya Sreekumar and George Belka, University of Pennsylvania

BB

Lund, Ethen 12:15 PM, CC-23*Developing Ni-based Bulk Metallic Glasses for Additive Manufacturing*

Research Mentor: Jan Schroers
 Research Institution: Yale University
 Home Institution: Pomona College
 Co-Authors: Sungwoo Sohn and Jan Schroers, Yale University

EN

Lysandrou, Maria 11:30 AM, CC-14*MRI Image Analysis of Prostate Cancer By Using Deep Learning*

Research Mentor: Pegah Khosravi
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Chicago
 Co-Authors: Iman Hajirasouliha and Pegah Khosravi, Weill Cornell Graduate School; Bilal Chughtai, Weill Cornell Medical College

AB

Macias, Alejandro 5:45 PM, CC-17

A Metabolic Feedback Loop in Adipocytes Sustains Glucose Homeostasis in Females

Research Mentor: Kathryn Wellen
 Research Institution: University of Pennsylvania
 Home Institution: CSU Northridge
 Co-Authors: Sully Fernandez, John Viola, AnnMarie Torres, Sophie Trefely and Martina Wallace, University of Pennsylvania

BB**Maltos, Elena 9:45 AM, CC-13**

Underrepresented and Overlooked: The Civil and Social Consequences of Felony Disenfranchisement in the Latino Community

Research Mentor: Claudrena Harold
 Research Institution: University of Virginia
 Home Institution: Heritage University
 Co-Authors: Claudrena Harold, University of Virginia

HU**Manz, Samantha 9:00 AM, CC-27**

Cartography of Struggle: Mapping Settler Colonialism and Gendered Violence Against Indigenous Women

Research Mentor: Celia Naylor
 Research Institution: Columbia University
 Home Institution: Macalester College
 Co-Authors: Celia Naylor, Columbia University

HU**Marmol, Yorkiris 11:30 AM, CC-11**

Single-neuron Responses to Body Movement in the Macaque Ventral Visual Pathway

Research Mentor: Ben Deen
 Research Institution: Weill Cornell Medical College
 Home Institution: Vassar College
 Co-Authors: Ben Deen, Cornell University

BB**Martinez, Cristian 3:30 PM, CC-21**

Synthesis and Characterization of Pro-Pro-Gly and Pro-Pro-azGly Collagen Model Peptides

Research Mentor: David Chenoweth
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: David Chenoweth, Alexander Kasznel and Samuel Melton, University of Pennsylvania

PS**Matthews, Grace 5:45 PM, CC-22**

The Effect of the Substrate on the MoS2 Catalyzed Hydrogen Evolution Reaction

Research Mentor: Judy Cha
 Research Institution: Yale University
 Home Institution: North Carolina State University
 Co-Authors: Josh Pondick, David Hynek and Judy Cha, Yale University

EN**Mazariegos, Eric 9:30 AM, CC-26**

Personages Replete With Preciousness: Synthesis, Stylization, and Application of Olmec and Maya Feather Iconography

Research Mentor: Terrence D'Altroy
 Research Institution: Columbia University
 Home Institution: University of California Los Angeles UCLA
 Co-Authors: Terence N. D'Altroy, Columbia University

HU**McDuffie, Joshua 3:45 PM, CC-23**

Experimental study on the seismic response of embankments on liquefiable soils improved with stone columns

Research Mentor: Shideh Dashti
 Research Institution: University of Colorado Boulder
 Home Institution: North Carolina A&T State University
 Co-Authors: Juan Carlos Tiznado and Shideh Dashti, University of Colorado Boulder

EN**McElroy, Asha 10:15 AM, CC-12**

The Impact of the Orexin System on Inflammatory Markers in a Binge Study

Research Mentor: Kimberli Richardson
 Research Institution: Howard University
 Home Institution: North Carolina A&T State University
 Co-Authors: Kimberlei A. Richardson, Dexter L. Lee and Uthayathas Subramaniam, Howard University

AB**McKinney, Jessica 12:00 PM, CC-25**

When Flesh is Remembered: A History of Trophies.

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**McManus, Collin 5:15 PM, CC-12**

Investigating the Role of Mammalian Cell Entry Proteins in Bacterial Lipid Transport

Research Mentor: Damian Ekiert
 Research Institution: New York University
 Home Institution: Rutgers University
 Co-Authors: Damian Ekiert and Georgia Isom, New York University

BB**McNish, Brianna 3:45 PM, CC-26**

"Say Make Me, Remake Me": Disembodied Selfhood in Toni Morrison's Jazz

Research Mentor: Herman Beavers
 Research Institution: University of Pennsylvania
 Home Institution: University of Connecticut
 Co-Authors: Herman Beavers, University of Pennsylvania

HU

Mekbib, Hannah Mariam..... 5:45 PM, CC-16

The Last Frontier: Chemical Exchange Effects On NMR Spectroscopy

Research Mentor: Arthur Palmer
 Research Institution: Columbia University
 Home Institution: Boston University
 Co-Authors: Arthur Palmer, Columbia University
BB

Melder, Theodore 12:00 PM, CC-22

Optimization of Diethylation for Enhancing cPILOT Workflow

Research Mentor: Renā Robinson
 Research Institution: Vanderbilt University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Renā Robinson and David Vassallo, Vanderbilt University
PS

Mendoza, Alicia..... 3:45 PM, CC-16

Identifying a Role for Soluble Guanylyl Cyclases during Nitric Oxide-Mediated Stress Response in C. elegans

Research Mentor: Evgeny Nudler
 Research Institution: New York University
 Home Institution: Ohio State University
 Co-Authors: Evgeny Nudler and Manjunath Gowder, New York University
BB

Mercado, Nathan 5:30 PM, CC-11

Interferon-Stimulated Gene ELF-1 Initiates Innate Antiviral Response in Eukaryotic Cells

Research Mentor: Meike Dittmann
 Research Institution: New York University
 Home Institution: UC Riverside
 Co-Authors: Meike Dittmann and Clara Si, New York University
AB

Mercedes, Marquisele 4:00 PM, CC-17

Word of Mouth: Social Influence and Medicare Advantage Plan Enrollment Decisions

Research Mentor: Ira Wilson
 Research Institution: Brown University
 Home Institution: Hunter College
 Co-Authors: Maricruz Rivera-Hernandez and Ira Wilson, Brown University
AB

Miller, Michelle..... 3:45 PM, CC-24

An Analysis of Mock Training Session as a Predictor of Motion Artifacts in fMRI Scans of Young Children

Research Mentor: Jessica Connelly
 Research Institution: University of Virginia
 Home Institution: Fairfield University
 Co-Authors: James Morris, University of Chicago; Jessica Connelly and Amalia McDonald, University of Virginia
SS

Mitchell-Velasquez, Erick..... 12:30 PM, CC-16

The Role of CDK7 in Transcription Regulation in Prostate Cancer

Research Mentor: Irfan Asangani
 Research Institution: University of Pennsylvania
 Home Institution: CSU Northridge
 Co-Authors: Irfan Asangani, Qu Deng, Reyaz ur Rasool and Ramakrishnan Natesan, University of Pennsylvania
AB

Montelongo, Javier 3:30 PM, CC-15

Identification of Factors Which Regulate Long Non-coding RNA Binding to Chromatin in Drosophila.

Research Mentor: Maya Capelson
 Research Institution: University of Pennsylvania
 Home Institution: California Lutheran University
 Co-Authors: Maya Capelson, University of Pennsylvania
BB

Montes, Christian 5:45 PM, CC-23

The Extension of Imaging by Integrating Stitched Spectrograms

Research Mentor: Gregory Beylkin
 Research Institution: University of Colorado Boulder
 Home Institution: CSU Stanislaus
 Co-Authors: Dan Adams, University of Colorado Boulder
PS

Moore, Kelsey 5:00 PM, CC-27

Silhouette of Sandscapes: Envisioning the Grit of Black Womanhood During the Great Migration

Research Mentor: Jennifer Morgan
 Research Institution: New York University
 Home Institution: New York University
 Co-Authors: Jennifer Morgan, New York University
HU

Morales, Jasmin 9:30 AM, CC-23

The Lost Ochoas: Social Class and STEM Persistence at an Elite University

Research Mentor: Anthony Jack
 Research Institution: Harvard University
 Home Institution: UC Santa Barbara
 Co-Authors: Anthony Jack, Harvard University
SS

Moreno-Flores, Omar 12:00 PM, CC-13

Modeling the Lymphoid Populations in the Bone Marrow

Research Mentor: Julie Sterling
 Research Institution: Vanderbilt University
 Home Institution: Heritage University
 Co-Authors: Julie Sterling and David Florian, Vanderbilt University
AB

Moss, Marissa.....4:45 PM, CC-27

“The Negro harlot:” Examining the Racial Dimensions of Policing in the Historic Vice Districts of Chicago (1920-1940)

Research Mentor: Christopher Todd
 Research Institution: University of Chicago
 Home Institution: Indiana University-Bloomington
 Co-Authors: Christopher Todd, University of Chicago
HU

Musleh, Aya.....5:00 PM, CC-14

Analysis of Dendritic Spines in Cerebellar Purkinje Cells and Neocortical Pyramidal Cells in a Mouse Model of Autism

Research Mentor: Christian Hansel
 Research Institution: University of Chicago
 Home Institution: University of Redlands
 Co-Authors: Dana H. Simmons, Daniel F. Gill and Christian Hansel, University of Chicago
BB

Nandar, PwintPhyu.....3:45 PM, CC-21

Investigating the Vapor Intrusion Issue: Developing an Active and Fast Air Sampling Method for Chlorinated Solvents

Research Mentor: Eric Suuberg
 Research Institution: Brown University
 Home Institution: University of California Los Angeles UCLA
 Co-Authors: Mengke Zhang, Zachary Saleeba and Eric Suuberg, Brown University
ES

Negi, Sonakshi.....5:45 PM, CC-25

How Beginning Teachers’ Experiences with Teacher Evaluation Seem To Affect their Teaching Self-Efficacy and Fit with their Schools?

Research Mentor: Peter Youngs
 Research Institution: University of Virginia
 Home Institution: George Mason University
 Co-Authors: Peter Youngs, University of Virginia
SS

Negri, Alberta.....4:45 PM, CC-11

Exploring the Mediators Between Incarceration and STI/HIV Prevalence

Research Mentor: Maria Khan
 Research Institution: New York University
 Home Institution: University of Cincinnati
 Co-Authors: Maria Khan, MacRegga Severe, Joy Scheidell and Kailyn Pearce, New York University
AB

Nesper, Jonathan4:00 PM, CC-21

Control of Te Vacancies in Mo1-xWxTe2 Crystals

Research Mentor: Despina Louca
 Research Institution: University of Virginia
 Home Institution: University of Central Florida
 Co-Authors: Despina Louca and John Schneeloch, University of Virginia
PS

Newsome, Emmanuel.....5:15 PM, CC-23

X-Ray Spectral Extraction for Stripe 82 Survey

Research Mentor: Meg Urry
 Research Institution: Yale University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Meg Urry and Tonima Ananna, Yale University
PS

Nguyen, David.....9:45 AM, CC-23

Addressing the Leaky Pipeline: An Outcome Evaluation of the Community College to PhD Scholars Program

Research Mentor: Shanta Robinson
 Research Institution: University of Chicago
 Home Institution: University of California Los Angeles UCLA
 Co-Authors: Shanta Robinson, University of Chicago
SS

Nguyen, Kimberly.....5:30 PM, CC-15

Using reporter assays and CRISPR-Cas9 editing to investigate causality of SNPs associated with gene expression in induced pluripotent stem cells

Research Mentor: Yoav Gilad
 Research Institution: University of Chicago
 Home Institution: New York University
 Co-Authors: Yoav Gilad and Kenneth Barr, University of Chicago
BB

Nociari, Juliana.....5:30 PM, CC-12

Kinetic Analysis of Mycobacterium Tuberculosis Proteasome Inhibitors

Research Mentor: Gang Lin
 Research Institution: Weill Cornell Graduate School
 Home Institution: New York University
 Co-Authors: Gang Lin, Wenhui Zhan and Carl Nathan, Weill Cornell Graduate School
BB

Noor, Mahlaqua10:15 AM, CC-11

To Die or Not To Die: Investigating Cytokine-Mediated Cell Death of Intestinal Organoids

Research Mentor: Ken Cadwell
 Research Institution: New York University
 Home Institution: Jacobs University Bremen
 Co-Authors: Jessica Neil, Yu Matsuzawa-Ishimoto and Ken Cadwell, New York University
BB

Norman Ing, Nainoa.....3:15 PM, CC-22

Total Synthesis of Paecilomycine A

Research Mentor: Steven Townsend
 Research Institution: Vanderbilt University
 Home Institution: Chaminade University of Honolulu
 Co-Authors: Steven Townsend and Johnny Nguyen, Vanderbilt University
PS

Olais, Jose 5:30 PM, CC-25

Classroom Composition: The Importance of Classroom Engagement and Feelings of Supportiveness in ELL students.

Research Mentor: Sara Rimm-Kaufman
 Research Institution: University of Virginia
 Home Institution: Northern Arizona University
 Co-Authors: Sara Rimm-Kaufman and Ashley Hunt,
 University of Virginia

SS

Olivieri, Joseph 11:30 AM, CC-27

Typhoid Fever Vaccination in the Early 20th Century American Military

Research Mentor: Robert Aronowitz
 Research Institution: University of Pennsylvania
 Home Institution: San Diego State University
 Co-Authors: Robert Aronowitz and Sara Ray, University of
 Pennsylvania

HU

Omar, Javier 3:30 PM, CC-24

Examination of Physiological Measures of Stress in a Healthy Cohort

Research Mentor: Michael Platt
 Research Institution: University of Pennsylvania
 Home Institution: Emory University
 Co-Authors: Arjun Ramakrishnan and Michael Platt,
 University of Pennsylvania

SS

Ortega, Yohaniz 11:45 AM, CC-12

Uncovering Molecular Mechanism Underlying Pontocerebellar Hypoplasia

Research Mentor: Naiara Aquizu
 Research Institution: Johns Hopkins University
 Home Institution: UPR-Humacao
 Co-Authors: Marco Flores and Naiara Aquizu, University of
 Pennsylvania

AB

Ortiz Alvarez de la Campa, Melanie 2:45 PM, CC-17

Impact of the Host Metabolism on Bacterial Antibiotic Responses

Research Mentor: Peter Belenky
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Peter Belenky and Jenna Wurster, Brown
 University

AB

Osea-Boaman, Karen 2:45 PM, CC-14

Synthetic Transcription Factors to Alter DNA Methyltransferase 3 Beta Expression Levels

Research Mentor: Garrett Kaas
 Research Institution: Vanderbilt University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Garrett Kaas and David Sweatt, Vanderbilt
 University

BB

Otero Gonzalez, Estrella 3:00 PM, CC-11

T-Cell-Based Immunotherapy in Brain Tumors

Research Mentor: Yi Fan
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Yi Fan and Yanling Wang, University of
 Pennsylvania

AB

Pacheco, Marguerite 3:15 PM, CC-16

Cardiomyocyte Mechanotransduction Pathway Response to Dynamic Stimulation

Research Mentor: Kenneth Margulies
 Research Institution: University of Pennsylvania
 Home Institution: Smith College
 Co-Authors: Kenneth Margulies and Alexia Vite, University of
 Pennsylvania

AB

Paniccia, Gabrielle 3:45 PM, CC-13

Investigating the role of S-adenosylmethionine synthetase enzyme in growth and sexual differentiation of malaria parasites

Research Mentor: Björn Kafsack
 Research Institution: Weill Cornell Graduate School
 Home Institution: SUNY Stony Brook
 Co-Authors: Chantal Harris and Björn Kafsack, Weill Cornell
 Graduate School

BB

Paramo, Carlos 12:15 PM, CC-27

Competition and Innovation: Drug Discovery in the Pharmaceutical Industry

Research Mentor: Gaurab Aryal
 Research Institution: University of Virginia
 Home Institution: UC Berkeley
 Co-Authors: Gaurab Aryal and Katya Khmel'nitskaya,
 University of Virginia

SS

Parker, Sarah 10:15 AM, CC-23

Conservative Philanthropy and Higher Education: The Role of the Philanthropy Roundtable

Research Mentor: Timmons Roberts
 Research Institution: Brown University
 Home Institution: University of Central Florida
 Co-Authors: J. Timmons Roberts and Robert Brulle, Brown
 University

SS

Patterson, Samuel 10:00 AM, CC-23

Evaluating The Effect of the District Primary Education Program On Indian Education

Research Mentor: Emmerich Davies
 Research Institution: Harvard University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Emmerich Davies, Fernanda Ramirez-Espinoza,
 Francisco Lagos and Sophie Litschwartz, Harvard
 University

SS

Paucar, Yoselin..... **12:15 PM, CC-17**

Evaluating the Metabolic Function of STAT3 in a Non-Small Cell Lung Cancer Model

Research Mentor: David Levy
 Research Institution: New York University
 Home Institution: John Jay College of Criminal Justice CUNY
 Co-Authors: David Levy and Lara Brambilla, New York University

AB

Pena, Isabel..... **5:30 PM, CC-24**

The New O.C.: Race, Space and Immigration in Postsuburban California

Research Mentor: Lisa McGirr
 Research Institution: Harvard University
 Home Institution: Williams College
 Co-Authors: Lisa McGirr, Harvard University

HU

Perez Torres, Melina **5:45 PM, CC-12**

Chronic Pain in Drosophila: Effects on Sleep and Circadian Rhythms

Research Mentor: Amita Sehgal
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Julie Williams and Amita Sehgal, University of Pennsylvania

BB

Ponce de Leon, Maria Luisa **4:00 PM, CC-23**

The Utility Of Near Shore Sediment Composition As An Indicator Of Coastal Eutrophication And Of Coastal Restoration Success Case Study Of Card Sound

Research Mentor: Kathleen Sullivan Sealey
 Research Institution: University of Miami
 Home Institution: San Jose State University
 Co-Authors: Kathleen Sealey, Caitlin Camarena, Krystle Young and Jacob Patus, University of Miami

ES

Posada, Luisa **3:45 PM, CC-11**

Exosome-mediated crosstalk between tumor cells and lymphatic endothelial cells

Research Mentor: Melody Swartz
 Research Institution: University of Chicago
 Home Institution: University of Florida
 Co-Authors: Lea Maillat, University of Chicago

BB

Posadas, Rebekah..... **10:30 AM, CC-12**

Long-term effects of neonatal injury on the development of primary afferents

Research Mentor: Gordon Barr
 Research Institution: University of Pennsylvania
 Home Institution: CSU San Bernardino
 Co-Authors: Wenqin Luo and Gordon Barr, University of Pennsylvania

BB

Pruitt, Kimara..... **5:15 PM, CC-21**

Protoplanetary Disk Simulation

Research Mentor: Shane Davis
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Shane Davis, University of Virginia

PS

Qualls, Anita **4:00 PM, CC-11**

Elucidating the Functional Impact of the p.E1099K Mutation on NSD2 Isoforms in Driving Pediatric Acute Lymphoblastic Leukemia Relapse

Research Mentor: William Carroll
 Research Institution: New York University
 Home Institution: University of Georgia
 Co-Authors: William Carroll and Jason Saliba, New York University

AB

Ramirez, Jennifer **5:30 PM, CC-23**

A comparison of beamforming techniques for biomedical ultrasound

Research Mentor: Kenneth Bader
 Research Institution: University of Chicago
 Home Institution: UPR-Mayaguez
 Co-Authors: Kenneth Bader and Samuel Hendley, University of Chicago

EN

Ramos-Jordan, Katerina..... **5:45 PM, CC-24**

Hungry to Belong: Rethinking the Puerto Rican Body Within the Streets of El Barrio

Research Mentor: Leticia Alvarado
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Leticia Alvarado, Brown University

HU

Ranjbaran, Ali..... **12:15 PM, CC-15**

Gene Expression Analysis of Acute Myeloid Leukemia

Research Mentor: Aris Tsigirgos
 Research Institution: New York University
 Home Institution: West Virginia University
 Co-Authors: Aristotelis Tsigirgos and Alireza Khodadadi-Jamayran, New York University

AB

Reese, Asia..... **2:45 PM, CC-27**

Gazing at Moonlight: An Analysis of Black Queer Representation and Spectatorship in Moonlight

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Spelman College
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Renald, Savanha 11:45 AM, CC-27

"I can't Breathe": How the Prison Industrial Complex Contributes to Toxic Air Pollution"

Research Mentor: Omar McRoberts
 Research Institution: University of Chicago
 Home Institution: University of Florida
 Co-Authors: Omar McRoberts, University of Chicago
SS

Rex, Madison 11:30 AM, CC-16

Effects of Evi1 expression on cell of origin-specific responses of AML cells to treatment

Research Mentor: Sheng Cai
 Research Institution: Weill Cornell Medical College
 Home Institution: University of Texas at Austin
 Co-Authors: Sheng Cai and Ross Levine, Weill Cornell Medical College
BB

Reyes Gallegos, Elizabeth 11:15 AM, CC-12

Is Boldness a Predictor of Anti-predatory Behavior in Barn Swallows?

Research Mentor: Angela Medina-García
 Research Institution: University of Colorado Boulder
 Home Institution: CSU Monterey Bay
 Co-Authors: Angela Medina-García and Rebecca Safran, University of Colorado Boulder
BB

Riley, Ciairra 3:00 PM, CC-14

Characterization of the Protein-RNA Interactions that Nucleate the HIV-1 Virus Assembly

Research Mentor: Michael Summers
 Research Institution: University of Maryland, Baltimore County
 Home Institution: CSU Long Beach
 Co-Authors: Michael Summers and Pengfei Ding, University of Maryland, Baltimore County
BB

Rivera-Fuentes, Nicole 3:45 PM, CC-12

Role Of Akt Signaling In Regulation Of Fiber Type Switch In Skeletal Muscle

Research Mentor: Paul Titchenell
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Paul Titchenell and Natasha Jaiswal, University of Pennsylvania
BB

Roach, Tiffany 5:15 PM, CC-14

Analysis of Global Changes in Brain Histone Post-Translation Modifications Following Rat THC Self-Administration

Research Mentor: Elizabeth Heller
 Research Institution: University of Pennsylvania
 Home Institution: Stockton University
 Co-Authors: Ajinkya Sase, Benjamin Garcia and Elizabeth Heller, University of Pennsylvania
AB

Robbins, Charles 11:45 AM, CC-16

Drug Resistance and Cell Death Mechanisms of Nonquiescent "Idling" Population State in BRAF-Mutated Melanoma

Research Mentor: Vito Quaranta
 Research Institution: Vanderbilt University
 Home Institution: Florida State University
 Co-Authors: Vito Quaranta, Corey Hayford and Bishal Paudel, Vanderbilt University
BB

Robertson, Victoria 12:00 PM, CC-27

Black Sanity: Understanding Mental Health Diagnoses Post-Emancipation

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Dillard University
 Co-Authors: Natalie Strobach, Johns Hopkins University
HU

Robusto, Brian 12:00 PM, CC-16

Keap1 Mutation Leads to Immunosuppression via Metabolic Interaction in Kras Driven Non-Small Cell Lung Cancer

Research Mentor: Thales Papagiannakopoulos
 Research Institution: New York University
 Home Institution: University of Florida
 Co-Authors: Thales Papagiannakopoulos, Anastasia-Maria Zavitsanou, Ray Pillai and Sergei Koralov, New York University
BB

Rodríguez, Eric 4:00 PM, CC-12

Understanding Mechanisms of CARD19-Dependent Cell Death

Research Mentor: Igor Brodsky
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Ponce
 Co-Authors: Elisabet Bjanés and Igor Brodsky, University of Pennsylvania
BB

Rodríguez-Villafañe, Andrea 3:00 PM, CC-17

Evaluation of the Anti-parasitic Effect of P. falciparum Specific Murine Antibodies In Vitro

Research Mentor: Jonathan Kurtis
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Alok Das Mohapatra, Anup Jnawali, Dipak Raj and Jonathan Kurtis, Brown University
AB

Roebke, Gwendalynn 12:15 PM, CC-22

Propagation of Light through Turbid Media

Research Mentor: Rafael Piestun
 Research Institution: University of Colorado Boulder
 Home Institution: University of Colorado Boulder
 Co-Authors: Rafael Piestun, University of Colorado Boulder
EN

Roehr, Gabrielle 9:45 AM, CC-26
Rebuilding Rome: Power, Propaganda, and the Past in the Age of Augustus
 Research Mentor: Michael Peachin
 Research Institution: New York University
 Home Institution: New York University
 Co-Authors: Michael Peachin, New York University
HU

Rosado-González, Gabriela..... 2:45 PM, CC-12
Rapid Production of Bispecific Antibody for T-cell Recruitment to EGFR Tumor Hallmark.
 Research Mentor: Andrew Tsourkas
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Andrew Tsourkas, University of Pennsylvania
AB

Rosario, Derick 12:30 PM, CC-17
Mechanisms and Consequences of Epithelial-Mesenchymal Plasticity in Pancreatic Cancer
 Research Mentor: Ben Stanger
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Ben Stanger and Robert Norgard, University of Pennsylvania
BB

Rosen, Mikaela 12:15 PM, CC-13
Single-Cell RNA-Seq Data Analysis of Dendritic Cells in Mice and Humans
 Research Mentor: Christina Leslie
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Richmond
 Co-Authors: Christina Leslie, Han Yuan and Yuri Pritykin, Weill Cornell Graduate School
AB

Ross, Charles..... 3:00 PM, CC-27
Blaxploitation in 21st Century Collegiate Athletics: An Analysis of the Effects of Controlling Images on Black Male Division I Student-Athletes
 Research Mentor: Josh Whitford
 Research Institution: Columbia University
 Home Institution: Allegheny College
 Co-Authors: Josh Whitford, Columbia University
SS

Rossell-Eddy, Diana 12:30 PM, CC-23
Development of UV-Visible and Photoluminescence Spectrometers and their Applications to Energy-Related Materials
 Research Mentor: Markus Raschke
 Research Institution: University of Colorado Boulder
 Home Institution: Front Range Community College
 Co-Authors: Markus Raschke and Jun Nishida, University of Colorado Boulder
PS

Rubin, Jeremy..... 12:30 PM, CC-22
Letting the LaxKAT Out of the Bag: Packaging, Simulation, and Neuroimaging Data Analysis for a Powerful Kernel Test
 Research Mentor: Russell Shinohara
 Research Institution: University of Pennsylvania
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Russell Shinohara, Simon Vandekar, Lior Rennert and Mackenzie Edmondson, University of Pennsylvania
PS

Rudic, Tamara..... 12:15 PM, CC-21
Energy transport on a cloudy planet
 Research Mentor: Tiffany Shaw
 Research Institution: University of Chicago
 Home Institution: Brown University
 Co-Authors: Tiffany Shaw, University of Chicago
ES

Ruiz Garcia, Janeth 9:45 AM, CC-27
Metates: Life and Death in Mesoamerican Civilizations
 Research Mentor: Adriana Greci Green
 Research Institution: University of Virginia
 Home Institution: University of Texas Permian Basin
 Co-Authors: Adriana Greci Green, University of Virginia
HU

Salim, Jamila..... 12:30 PM, CC-26
Spatial Toys: Perceptions and Implications of Caregiver Preferences
 Research Mentor: Jamie Jirout
 Research Institution: University of Virginia
 Home Institution: Syracuse University
 Co-Authors: Jamie Jirout and Sierra Eisen, University of Virginia
SS

Salimjonova, Dildora..... 5:00 PM, CC-25
Machine Translation: An Algorithm for a Culture
 Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: University of Maryland, Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University
HU

Samples, Anneliese 12:15 PM, CC-24
Level of Relationship Impacting Racism Confrontation
 Research Mentor: Sophie Trawalter
 Research Institution: University of Virginia
 Home Institution: North Carolina Central University
 Co-Authors: Sophie Trawalter and Hyeonjin Bak, University of Virginia
SS

Sanchez, Alexandra 11:45 AM, CC-25
Opinions on Display: A Case Study on Curators' Responses to Fetishism in Museums in Charlottesville
 Research Mentor: Gertrude Fraser
 Research Institution: University of Virginia
 Home Institution: Berry College
 Co-Authors: Gertrude Fraser, University of Virginia
SS

Sanchez, David..... **3:15 PM, CC-11**

Investigating Clear Cell Renal Cell Carcinoma Viability in Response to Glutathione Synthesis Inhibition and Chemotherapeutics

Research Mentor: Simon Celeste
 Research Institution: University of Pennsylvania
 Home Institution: University of Texas at San Antonio
 Co-Authors: Nicolas Skuli, Simone Celeste and Ankita Bansal,
 University of Pennsylvania

AB

Santiago Garcia, Angel..... **4:45 PM, CC-22**

Improving earthquake relocation to find faults in Nicaragua

Research Mentor: Karen Fischer
 Research Institution: Brown University
 Home Institution: UPR-Arecibo
 Co-Authors: Karen Fischer and Isabella Gama, Brown University

ES

Santos, Daniella **4:00 PM, CC-13**

Expression and Purification of MSP-7, MSP-9 and CG4 in E. coli for P. falciparum Malaria Vaccine Development

Research Mentor: Jonathan Kurtis
 Research Institution: Brown University
 Home Institution: UPR-Rio Piedras
 Co-Authors: Sunthorn Pond-Tor, Sovanny Pond-Tor and
 Jonathan Kurtis, Brown University

AB

Sarcone, Camila **5:45 PM, CC-15**

Investigating the Role of the PolyC Binding Proteins in Maintaining Pancreatic Beta Cell Identity

Research Mentor: Doris Stoffers
 Research Institution: University of Pennsylvania
 Home Institution: Florida International University
 Co-Authors: Doris A. Stoffers, Matthew W. Haemmerle,
 Austin L. Good and Stephen A. Liebhaber, University of
 Pennsylvania

BB

Saslafsky, Ariella..... **11:45 AM, CC-14**

Stochastic vs Deterministic Modeling: Does It Matter Which You Choose?

Research Mentor: Carlos Lopez
 Research Institution: Vanderbilt University
 Home Institution: University of Central Florida
 Co-Authors: Carlos Lopez, Alexander Lubbock and Geena
 Ildefonso, Vanderbilt University

BB

Scales, Nzali..... **5:30 PM, CC-27**

Black Girl Magic, White Boarder Paradigm: How Predominantly White All Girls Boarding Schools Inform the Racial Identity of Black Girls

Research Mentor: Mignon Moore
 Research Institution: Columbia University
 Home Institution: Spelman College
 Co-Authors: Mignon Moore, Columbia University

SS

Segura, Roberto **5:30 PM, CC-14**

PTH (1-34) Modulates CRT2/3 Nuclear Localization in the Osteoblast through PP1/PP2A Signalling

Research Mentor: Nicola Partridge
 Research Institution: New York University
 Home Institution: San Francisco State University
 Co-Authors: Nicola C. Partridge, New York University

BB

Sepulveda, Renato..... **4:45 PM, CC-25**

“SOS” Struggle, oppression, survival A look into the vicious cycle holding American communities captive

Research Mentor: Michael Smith
 Research Institution: University of Virginia
 Home Institution: Heritage University
 Co-Authors: Michael Joseph Smith, University of Virginia

PE

Sevillano, Gerald Jae..... **9:30 AM, CC-27**

Archipelagic Imaginings and Psychogeographic Mappings: (U)npacking (B)logger (E)xplorations in Little Manila

Research Mentor: Thuy Linh Tu
 Research Institution: New York University
 Home Institution: Princeton University
 Co-Authors: Thuy Linh Tu, New York University

HU

Shaw, Marlisa **11:45 AM, CC-11**

Identifying and Localizing Novel Genes in Zebrafish Spinal Cord Controlling Locomotion

Research Mentor: Jeremy Dasen
 Research Institution: New York University
 Home Institution: Pennsylvania State University
 Co-Authors: Kristen D’Elia, Basak Rosti, Paula Cruz-Vazquez,
 David Schoppik and Jeremy Dasen, New York University

BB

Shin, Sarah..... **4:45 PM, CC-16**

Notch/Wnt Signaling Crosstalk Regulates Skeletal Stem/Progenitor Cell Behavior During Early Fracture Healing

Research Mentor: Philipp Leucht
 Research Institution: New York University
 Home Institution: University of Missouri-Kansas City
 Co-Authors: Sooyeon Lee and Philipp Leucht, New York
 University

BB

Sidel, Hunter **3:00 PM, CC-25**

Silence in Sexology: Race, Nationalism and the Unnatural in German Empire c. 1884 - 1918

Research Mentor: Zeb Tortorici
 Research Institution: New York University
 Home Institution: Pitzer College
 Co-Authors: Zeb Tortorici, New York University

HU

Slayday, Riki..... **12:30 PM, CC-24**
Motivational shifts in information seeking behaviors across the life span
 Research Mentor: Laura Carstensen
 Research Institution: Stanford University
 Home Institution: San Diego State University
 Co-Authors: Laura Carstensen and Yochai Shavit, Stanford University
SS

Smith, Andrykah..... **5:15 PM, CC-25**
An Exploration of the Relationship Between Teacher Burnout and Students' Behavioral Engagement
 Research Mentor: Khara Turnbull
 Research Institution: University of Virginia
 Home Institution: North Carolina State University
 Co-Authors: Khara Turnbull and Sarah Wymer, University of Virginia
SS

Smith, Jamila..... **5:00 PM, CC-22**
Exploring the Potential of n-Alkanes in Leaf Waxes as a Proxy for Climate in the Tropical Andes
 Research Mentor: Lina Pérez-Angel
 Research Institution: University of Colorado Boulder
 Home Institution: SUNY College at Fredonia
 Co-Authors: Lina Pérez-Angel and Julio Sepúlveda, University of Colorado Boulder
ES

Smith, Kayla **11:30 AM, CC-25**
Black Revolutionary Theatre: How black arts cultivated community dialogue and sustained diasporic testimonies at Brown University
 Research Mentor: Jennifer Betts
 Research Institution: Brown University
 Home Institution: Spelman College
 Co-Authors: Jennifer Betts, Brown University
HU

Sobande, Oluwasemilore **11:15 AM, CC-25**
Mapping the Archive: Literary Approaches to Slavery and the Abject
 Research Mentor: Abosede George
 Research Institution: Columbia University
 Home Institution: Stanford University
 Co-Authors: Abosede George, Columbia University
HU

Soriano, Denise **9:30 AM, CC-13**
Marijuana Legalization and Racial-Ethnic Disparities in Incarceration Rates from 2000-2015
 Research Mentor: Terry-Ann Craigie
 Research Institution: Brown University
 Home Institution: DePaul University
 Co-Authors: Terry-Ann Craigie, Brown University
SS

Swann, Isaiah..... **12:00 PM, CC-12**
Transcriptionally-Regulated Genes Direct Gap Junction Specificity in the Motor Circuit of C. elegans
 Research Mentor: Sierra Palumbos
 Research Institution: Vanderbilt University
 Home Institution: University of Texas at Dallas
 Co-Authors: Sierra Palumbos, Rebecca McWhirter and David Miller III, Vanderbilt University
BB

Tavares, Agustin..... **12:00 PM, CC-11**
Comparison of the morphology of different hippocampal neuron types using tissue clearing, imaging, and reconstruction
 Research Mentor: Jayeeta Basu
 Research Institution: New York University
 Home Institution: University of Miami
 Co-Authors: Jayeeta Basu and Olesia Bilash, New York University
AB

Thang, Daniel..... **4:00 PM, CC-26**
Aesthetic Shadow: Repression in Confessions of a Mask
 Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University
HU

Thompson, Elizabeth **11:15 AM, CC-17**
Mechanisms of SOX2 Regulation in Squamous Cell Carcinoma
 Research Mentor: Markus Schober
 Research Institution: New York University
 Home Institution: University of Wisconsin Madison
 Co-Authors: Markus Schober and Steven Hoang-Phou, New York University
AB

Tirado, Brian **5:45 PM, CC-14**
The Effect of a Human LNK Polymorphism on Erythropoietin Receptor Signal Transduction
 Research Mentor: Meenakshi Madhur
 Research Institution: Vanderbilt University
 Home Institution: Mercer University
 Co-Authors: Meenakshi Madhur and Matthew Alexander, Vanderbilt University
BB

Torres, Jeremy **3:30 PM, CC-22**
Effects Of Ozone On The Photochemical And Photophysical Properties Of Dissolved Organic Matter
 Research Mentor: Fernando Rosario-Ortiz
 Research Institution: University of Colorado Boulder
 Home Institution: UPR-Mayaguez
 Co-Authors: Frank Leresche and Fernando Rosario-Ortiz, University of Colorado Boulder
ES

Tracey, Matthew 3:45 PM, CC-15

Identifying how the Integrator Complex Regulates RNA Polymerase II Transcripts

Research Mentor: Jeremy Wilusz
 Research Institution: University of Pennsylvania
 Home Institution: Pennsylvania State University
 Co-Authors: Deirdre Tatomer and Jeremy Wilusz, University of Pennsylvania

BB

Trinh, Kevin 5:15 PM, CC-22

Measuring Rayleigh Wave Phase Velocity in the Antarctic Upper Mantle from Ambient Seismic Noise

Research Mentor: Colleen Dalton
 Research Institution: Brown University
 Home Institution: Bowdoin College
 Co-Authors: Zhitu Ma and Colleen Dalton, Brown University

ES

Trovato, Daniel 5:30 PM, CC-26

Criminology: The Impossibility of Rehabilitation in Genet's A Thief's Journal.

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Twumasi-Ankrah, Nana Afia 12:30 PM, CC-13

Using Bioinformatics to Characterize the Genomic Attributes of Neisseria Gonorrhoeae Strain FA1090 and Its Genetically Modified Derivatives.

Research Mentor: Alison Criss
 Research Institution: University of Virginia
 Home Institution: Virginia Commonwealth University
 Co-Authors: Alison Criss, University of Virginia

AB

Sofia-Uzsoy, Ana 12:30 PM, CC-21

The radius and mass distribution of ultra-short period planets

Research Mentor: Leslie Rogers
 Research Institution: University of Chicago
 Home Institution: North Carolina State University
 Co-Authors: Leslie Rogers, University of Chicago

PS

Valdes-Valderrama, Andrea 5:15 PM, CC-26

Boricua en la Luna: Examining the Borderland Between Puerto Rico and the United States Through Literature

Research Mentor: Steven Gregory
 Research Institution: Columbia University
 Home Institution: UPR-Mayaguez
 Co-Authors: Steven Gregory, Columbia University

HU

Valentine, Aneesa 3:15 PM, CC-17

The infectivity of IBD patient-isolated gut mycobiota species.

Research Mentor: Iliyan Iliev
 Research Institution: Weill Cornell Graduate School
 Home Institution: Brooklyn College CUNY
 Co-Authors: Iliyan Iliev, Weill Cornell Graduate School

AB

Van, Destiny 4:00 PM, CC-15

Biomarkers of Sleep-Loss Vulnerability and Total Sleep Deprivation by Metabolomics

Research Mentor: Aalim Weljie
 Research Institution: University of Pennsylvania
 Home Institution: Spelman College
 Co-Authors: Arjun Sengupta and Aalim Weljie, University of Pennsylvania

AB

Vargas-Rivera, Maria 3:45 PM, CC-22

Cation Responsive Catalysis for the Synthesis of Biodegradable Polymers

Research Mentor: Jerome Robinson
 Research Institution: Brown University
 Home Institution: UPR-Aguadilla
 Co-Authors: Jerome Robinson and Kerry Casey, Brown University

PS

Vazquez Marrero, Victor 5:45 PM, CC-11

Detection of the bacterial type III secretion system by the human NAIP/NLRC4 inflammasome

Research Mentor: Sunny Shin
 Research Institution: University of Pennsylvania
 Home Institution: UPR-Rio Piedras
 Co-Authors: Sunny Shin and Valeria Reyes, University of Pennsylvania

BB

Vides, Christina 5:30 PM, CC-21

Modeling the Sensitivity of Exoplanet Coronagraphic Imaging Methods to a Continuous Wave Laser Source: an OIRSETI Experiment

Research Mentor: Bruce Macintosh
 Research Institution: Stanford University
 Home Institution: California State Polytechnic University, Pomona
 Co-Authors: Bruce Macintosh and Jean-Baptiste Ruffio, Stanford University

PS

Vish, Kimberly 4:00 PM, CC-14

Structural and Functional Studies of the E. coli Potassium Pump KdpFABC

Research Mentor: David Stokes
 Research Institution: New York University
 Home Institution: Siena College
 Co-Authors: Marie Sweet and David Stokes, New York University

BB

Voitiv, Andrew 4:00 PM, CC-22

Ti:Sapphire laser construction for characterization of thermo-plasmonic nanotips

Research Mentor: Markus Raschke
 Research Institution: University of Colorado Boulder
 Home Institution: University of Denver
 Co-Authors: Fabian Menges and Markus Raschke, University of Colorado Boulder

PS

Wacker, Amanda 3:30 PM, CC-16

Molecular Mechanisms Underlying Regression of Exercise-Induced Cardiac Hypertrophy

Research Mentor: Leslie Leinwand
 Research Institution: University of Colorado Boulder
 Home Institution: Florida State University
 Co-Authors: Leslie Leinwand, University of Colorado Boulder

BB

Walley, Vanetta 10:30 AM, CC-11

PP2A Regulatory Subunit Mutations that Increase Plant Size

Research Mentor: Alison DeLong
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Alison DeLong, Brown University

BB

Walters-Marrah, George 4:45 PM, CC-17

Atomic Structure of Allosteric Inhibitors Bound to the HIV Integrase Catalytic Core Domain

Research Mentor: Kushol Gupta
 Research Institution: University of Pennsylvania
 Home Institution: University of Central Florida
 Co-Authors: Kushol Gupta, Benjamin Mathier and David Nguyen, University of Pennsylvania

BB

Warsco, Alia 11:45 AM, CC-26

Bein' Lum: Language as a Legitimizing Force for an Illegitimate People

Research Mentor: Laurel MacKenzie
 Research Institution: New York University
 Home Institution: New York University
 Co-Authors: Laurel MacKenzie, New York University

HU

Washington, Jamar 10:45 AM, CC-11

Investigating The Roles of Myosin19 And Miro In Regulating F-Actin And The Mitochondrial Network

Research Mentor: Erika Holzbaur
 Research Institution: University of Pennsylvania
 Home Institution: University of Richmond
 Co-Authors: Erika Holzbaur-Howland, Andrew Moore and Stephen Coscia, University of Pennsylvania

BB

Weingart, Alexander 11:30 AM, CC-17

Phenotyping of the Airway Epithelium In Search For Subpopulation Of Cells Conferring Long Term Risk For Developing Lung Cancer

Research Mentor: Pierre Massion
 Research Institution: Vanderbilt University
 Home Institution: University of Vermont
 Co-Authors: Pierre P. Massion, Maria-Fernanda Senosain, Jonathan M. Lehman and Jamshedur S. Rahman, Vanderbilt University

AB

White, Jira 12:15 PM, CC-12

The Use of Double Mutant C. Elegans Strains in Uncovering Gene Redundancies in Glial Mediated Circuit Formation

Research Mentor: Shai Shaham
 Research Institution: Weill Cornell Medical College
 Home Institution: Claflin University
 Co-Authors: Georgia Rapti and Shai Shaham, Weill Cornell Medical College

BB

Whitmore, Myles 10:15 AM, CC-13

Comparative Analysis of National Security in the United States, Canada and Russia

Research Mentor: Michael Smith
 Research Institution: University of Virginia
 Home Institution: Morehouse College
 Co-Authors: Michael Smith, University of Virginia

PE

Whitten, Conner 3:00 PM, CC-24

Characterizing Neuronal Activation in the Ventral Hippocampus During Social Stimuli in Prairie Voles

Research Mentor: Zoe Donaldson
 Research Institution: University of Colorado Boulder
 Home Institution: CSU San Marcos
 Co-Authors: Jayme Temple and Zoe Donaldson, University of Colorado Boulder

SS

Williams, Marcus 9:00 AM, CC-12

Benzannulated Spiroketal Synthesis Via Exo-Glycal Scandium-triflate Mediated Spirocyclization Approach

Research Mentor: Jessica Hurtak
 Research Institution: Weill Cornell Medical College
 Home Institution: Fort Lewis College
 Co-Authors: Jessica Hurtak and Derek Tan, Weill Cornell Graduate School

BB

Williams, Marta 12:30 PM, CC-12

The Missing Link: How Insulin Enhances Dopamine Release

Research Mentor: Margaret Rice
 Research Institution: New York University
 Home Institution: Luther College
 Co-Authors: Margaret Rice and Jyoti Patel, New York University

BB

Williamson, Victoria 3:15 PM, CC-24

The Role of the VLPFC in Modulating Intergroup Spite: A tDCS Study

Research Mentor: Mina Cikara
Research Institution: Harvard University
Home Institution: University of Florida
Co-Authors: Mina Cikara and William Moore, Harvard University

SS

Wilson, Alexis..... 5:30 PM, CC-22

Examining the Relationship Between Sediment Grain Size and Toxic Arsenic Levels in the Ganges-Brahmaputra Delta in Bangladesh

Research Mentor: Steven Goodbred
Research Institution: Vanderbilt University
Home Institution: Cornell University
Co-Authors: Steven L. Goodbred and Jessica Raff, Vanderbilt University

ES

Wiratan, Linda 9:15 AM, CC-12

mRNA Transport between Mouse and Human Cells

Research Mentor: Craig Hunter
Research Institution: Harvard University
Home Institution: University of Maryland, Baltimore County
Co-Authors: Craig Hunter and Andrey Shubin, Harvard University

BB

Woodward, Helen 5:00 PM, CC-17

Determination of the extracellular T cell receptor-CD3 complex structure

Research Mentor: Aswin Natarajan
Research Institution: New York University
Home Institution: Gettysburg College
Co-Authors: Aswin Natarajan, Joshua Gutierrez and Michelle Krogsgaard, New York University

BB

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Poster Presentations by Number

1	Kenya Alfaro	AB	Sonic Hedgehog is mechanosensitive and regulates the proliferation and differentiation of cartilage-resident mesenchymal stem cells in osteoarthritis patients
2	Myles Bartholomew	AB	The Contribution of SHP-1 Signaling to Sepsis-Induced Changes In Not Only Immune Cell Function, but Overall Survival
3	Avni Bhalgat	AB	Overcoming Chemotherapeutic Resistance in Pancreatic Cancer
4	Kwadwo Bonsu	AB	Modulation of Pre-Senescent Fibroblasts via Physical Cues and Senescence-Associated Secretory Phenotype Paracrine Signaling
5	Brenden Bratton	AB	The role of cfdDNA in Aspiration Associated Lung Allograft Injury
6	Hamadi Brewer	AB	Maternal Immune Activation of the Corticostriatal Circuit in Rodents
7	Jingjia Chen	AB	Battling the Flu: Playing Tetris On A Molecular Level
8	Chazman Childers	AB	Identification of Pharmacomimetics of Flow-Mediated Endothelial Atheroprotection
9	Pablo Coello	AB	A Novel Platform Engineered for the Characterization and Interrogation of Gene Signaling Pathways Associated with Atherosclerosis
10	Laura Diaz	AB	Identifying the Localization of the GFP-tagged Manganese Transporter Slc30a10 in Mice Tissue
11	Lauren English	AB	The Role of Prdm16 in Ventral Telencephalon Progenitors in the Development of the Cholinergic System
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15	Myshal Morris	AB	Identifying New EGFR Driver Mutations In Non Small Cell Lung Cancer
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18	Nicole Reinhold-Larsson	AB	Transcervical infection of Chlamydia muridarum elicits a more robust immune response in mice than intravaginal infection
19	Brenna Remick	AB	Combining Immune Checkpoint Blockade with CAR T-cell Therapy

AB = Applied Biosciences
BB = Basic Biosciences

EN = Engineering
ES = Earth Science

HU = Humanities
PE = Policy & Ethics

PS = Physical Science
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21	Olivia Ringham	AB	Using human ileal enteroids to study impaired intestinal integrity induced by <i>C. parvum</i> infection
22	Maya Rowell	AB	Discovery of Receptor-Downregulating Antibodies for Cancer Immunotherapy
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28	Tonuza Ahmed	BB	The effect of CGRP 8-37 viral vector on reducing pain caused by spinal cord injury
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32	Summer Blanco	BB	Pollen Magnetofection: Developing a Novel Transformation Technique in <i>Aquilegia coerulea</i> (Columbine)
33	Kyle Boulanger	BB	Labeling of Glial Progenitors With Zirconium-DFO Complexes for Cell Tracking Using PET
34	Laura Briggs	BB	Developing methods to identify RNA-binding inhibitors of reverse transcription
35	Brandon Brown	BB	The Fight Against Nosocomial Strains of <i>Pseudomonas Aeruginosa</i> through quantifying Aggregates and Biofilms
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40	Annie Chen	BB	miRNA-34c expression in female brain regions as a mediator of the transgenerational effects of stress phenotypes using fluorescent in situ hybridization (FISH)
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43	Adrienne Corseri	BB	Testing the interactions between nociceptors and macrophages using co-cultures

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87	David Gonzalez-Medrano	EN	Synthesis of Multicomponent Transition Metal Oxalates and Oxides: Probing Phase Homogeneity of Energy Storage Precursors
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114	Annabelle Flores	SS	Do individual differences in incentive salience attribution reflect differences in reward representation?
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Testing the role of low threshold potassium channels in song learning using CRISPR.
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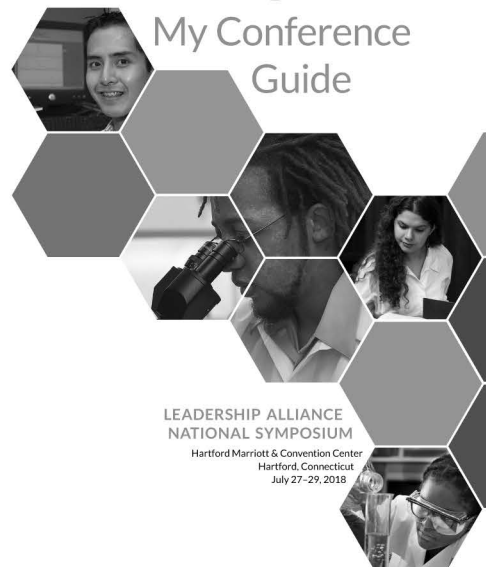
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Who's Who at the Symposium



Brittany Allison

Vanderbilt University

Brittany Allison, PhD, is currently a Postdoctoral Fellow in the Graduate School at Vanderbilt University, where she is the Leadership Alliance SYNERGI Program Coordinator. In this role, she aims to increase the number of underrepresented undergraduate students interested in research, by presenting workshops, mentoring, and coaching them on research skills. Dr. Allison also works closely with the Enhancing Graduate Diversity Education Program, where she makes substantive contributions to the program activities, initiatives, and events. In addition, she enjoys supporting and advising minority graduate students in leadership and advocacy, and promoting a more inclusive graduate atmosphere. Dr. Allison completed a PhD in chemistry from Vanderbilt in 2016 under Dr. Jens Meiler, where she studied computational design of protein-ligand interactions. While a graduate student, Dr. Allison received the National Science Foundation Graduate Research Fellowship (NSF-GRFP) Award. Originally from New Orleans, LA, she completed her undergraduate chemistry degree at Xavier University of Louisiana.



Amalia Ávila

Sales Manager, Biocytogen LLC.

Amalia Ávila, PhD helps to find solutions for academic and industry researchers interested in generating cell line/animal models using gene targeting technologies such as CRISPR/Cas9. In her role as Sales Manager for Biocytogen USA, she draws upon her experience as a postdoc and as a graduate student to understand the obstacles researchers face and facilitate alternatives to accomplish their goals. Previously she was a postdoctoral researcher at Yale University, where her main goal was to identify molecular players that regulate terminal red blood cell development.

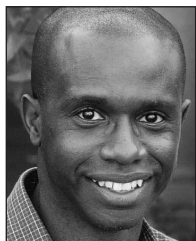
DNA, RNA and chromatin structure, and its potential applications in technology have long been a fascination for Dr. Ávila. As an undergraduate she studied DNA G-quadruplexes, which can be harnessed as drug delivery devices. Her doctoral research at Brown University as a National Science Foundation Fellow focused on characterizing trinucleotide repeat sequences that are involved in Huntington's disease. Dr. Ávila's research has been published in several peer-reviewed journals, including the Journal of Biological Chemistry, ACS Biochemistry, Blood, and the Journal of Biophysical and Biochemical Communications. Dr. Ávila is also committed to the advancement of underrepresented communities in science and technology, and looks to share her experiences and help others who are pursuing careers in STEM.



Earnestine Baker

University of Maryland, Baltimore County

Earnestine Baker is the retired Assistant to the Vice President of Institutional Advancement and serving currently as the Executive Director of the Meyerhoff Scholarship Program at the University of Maryland, Baltimore County (UMBC). She joined UMBC in 1983 as the Coordinator of Minority Recruitment in the Office of Admissions. Between 1987 and 1992 she served as Associate Director for Scholarships at the University. In 1992, Mrs. Baker was appointed Director of the Meyerhoff Scholars Program, a nationally recognized program for talented students interested in pursuing terminal degrees in the sciences, mathematics, and engineering and computer science. In July, 2009 – Science, the leading journal of scientific research, news and commentary, recognized UMBC's Meyerhoff Scholars Program as a national model demonstrating “what it takes” to help more minority students earn science degrees. Mrs. Baker served as the Director of the Meyerhoff Scholars Program at UMBC for ten years and was appointed the Executive Director of the Program in 2002.



Joseph Brown

Stanford University

Joseph Brown currently has two positions at Stanford University: Graduate Diversity Recruitment Officer for the School of Humanities and Sciences and Director of Diversity & Associate Director of the Diversity & First-Gen Office. He received his B.S. degree in physics from Southwest Texas State University and an Sc.M. degree in biomedical engineering from Brown University. After working for IBM as a marketing representative he was admitted to the PhD program in social psychology at Stanford University. His graduate work focused on the influence of stereotypes and prejudice on the intellectual identities and performance of women and minorities.



Don Brunson

Vanderbilt University

Dr. Don Brunson is the Assistant Dean of the Vanderbilt University Graduate School and the Director of the Graduate School's Enhancing Diversity in Graduate Education Program. He is responsible for leading recruitment and retention efforts for Ph.D. students from under-represented minority groups and other diverse student populations in all fields of study and women Ph.D. students majoring in science, technology, engineering, or mathematics fields. He was a MARC Honors Undergraduate Research Training Program at Morgan State University and attended the Massachusetts Institute of Technology (MIT) on a MARC graduate fellowship where he became the first African-American to earn a Ph.D. in Toxicology from MIT. After completing a two-year post-doctoral fellowship in the Department of Pharmacology and Molecular Sciences at the Johns Hopkins University School of Medicine, he altered his career path from scientific research to university administration and has held administrative positions at MIT, Morgan State University, and Vanderbilt University.



Makisha Cameron

CoinSetters

Born and raised in Hopkinsville, Kentucky, Makisha Cameron earned her Bachelor of Science degree in Psychology from Tennessee State University in 2006. While earning her Master of Science degree in Counseling Psychology from Tennessee State University, Makisha Cameron completed her Master's thesis which is now a published article titled "Media Influence on Body Image Dissatisfaction." Throughout her work with nonprofit mental health organizations and low socioeconomic communities within Tennessee and Florida, Makisha discovered her passion for helping other and giving back to the community. While attending Florida A&M University, Makisha Cameron promoted financial literacy, and progressive financial decision making within minority and low-income communities as a Minority and Retirement Securities fellow. As a graduate fellow Makisha presented research on Financial Self-Image at multiple conferences throughout the United States. Furthering her passion of giving back, Makisha is also a Certified Financial Education Instructor which gives her the opportunity to continue to educate communities. She graduated with a Master of Business Administration degree from Florida A&M University in 2017.



Raquel Castellanos

University of Pennsylvania

Raquel Castellanos is a first-generation Chicana scientist, born in the Bronx, New York. She is currently the Assistant Director of the Office of Research and Diversity Training at the Perelman School of Medicine at the University of Pennsylvania. She develops program initiatives geared towards increasing the number of underrepresented minority trainees in biomedical sciences across multiple career levels. She is passionate about mentoring and shares her own personal stories as a Latina in STEM to motivate students to pursue scientific careers. Raquel earned her Ph.D. in Biomedical Sciences and completed her postdoctoral training at the Albert Einstein College of Medicine.



Tracy Costello

National Postdoctoral Association

As the current Chair of the Board of Directors of the National Postdoctoral Association (NPA), Dr. Costello leads the NPA's efforts to enhance the postdoctoral experience at both the local and national level and provide a national voice for postdoctoral scholars. As Director of Postdoctoral Affairs at Moffitt Cancer Center, she is creating brand new programs to enhance the postdoc experience beginning with postdoc recruitment, implementation career and professional development training through one on one career exploration and coaching. She has served at NSF on both postdoc fellowship study sections and a committee of visitors and began serving on an NIH study section this year. Costello earned a BS, magna cum laude, in Mathematics and Physics from The University of Southern Mississippi before going to The University of Texas Graduate School of Biomedical Sciences in Biostatistics and Genetics. She received both predoctoral and postdoctoral R25 fellowships in cancer prevention during her graduate school and postdoctoral training before becoming a senior statistical analyst in health disparities research.



Arnaldo Diaz

University of Pennsylvania

Arnaldo Diaz Vazquez, PhD, is the Assistant Dean for Research Training Programs, Director of Recruitment and Retention of Diversity Scholars, and Adjunct Asst. Prof of Pharmacology. As Asst. Dean, Dr. Diaz works collaboratively with University leadership to develop and coordinate targeted recruitment and retention strategies aimed at increasing the number of underrepresented students obtaining PhDs in the biomedical sciences and provides academic and professional career development for underrepresented trainees across the full spectrum of undergraduate, graduate and post-graduate programs in the biomedical sciences. He directs the Summer Undergraduate Internship Program and the Post-Baccalaureate Research Education Program. Recently, Dr. Diaz became a Co-Director of the Penn IRACDA Program and oversees diversity programming between Penn and the partner teaching institutions. Diaz received his BS in Chemistry from the University of Puerto Rico-Rio Piedras, a PhD in Biochemistry from Texas A&M University, and postdoctoral training in Cancer Pharmacology at the University of Pennsylvania.



Mareshia Donald

Novartis Institutes for BioMedical Research

Mareshia Donald is Scientific Programs Manager and Diversity and Inclusion Partner at Novartis Institutes for BioMedical Research where she oversees Postbaccalaureate and Summer Scholars Programs. She holds bachelor's degrees in Neuroscience and Language Studies from the University of California at Santa Cruz and a Ph.D. in Neuroscience from Brandeis University. Mareshia's desire to live both professional and personal lives aligned with equity and sits as a Director on the board of the Housing Corporation of Arlington (MA) as well as the Executive Board of the Massachusetts Association for

Women in Science.



Denise Ellis

Alfred P. Sloan Foundation

Denise Ellis is the Program Manager for the Alfred P. Sloan Foundation's Minority Graduate Scholarship Programs, which NACME has administered since 2001. Since 2012, Mrs. Ellis has been responsible for the management of all aspects of the Minority Ph.D. (MPHD) and the Sloan Indigenous Graduate Partnership (SIGP) Programs, representing a portfolio of scholarship programs totaling \$50 million. Mrs. Ellis has more than 15 years of experience in educational and non-profit organizations, having served as financial administrator for the New York City Department of Education and as Budget Director for the US Fund for UNICEF prior to joining NACME. She holds a B.A. degree in Languages & Linguistics from the University of the West Indies and an M.B.A in Finance from Baruch College, City University of New York.



Leah Gibbons

American Society for Microbiology

Leah Gibbons is a Program Coordinator at the American Society for Microbiology (ASM), where she oversees the student presentations, travel award, and judge programs at the Annual Biomedical Research Conference for Minority Students (ABRCMS). ABRCMS is one of the nation's largest conferences for minority students interested in pursuing advanced education in STEM. Ms. Gibbons organizes the review, selection, and logistics of the over 2,300 abstract submissions, 900 travel award applications and 600 judges. For the past four years she has seen firsthand the impact that ABRCMS has made on attendees and is passionate about the diverse and inclusive community ABRCMS continues to serve.



Leislle Godo-Solo

Institute for Recruitment of Teachers

Ms. Godo-Solo has served as the Education Program Specialist/Associate Director of the Institute for Recruitment of Teachers (IRT) since 2002. In this role, Leislle recruits and selects IRT scholars, counsels those in education fields regarding their school lists, and advises and supports a group of 25-30 students as they prepare their graduate application materials. She holds a B.A. in Spanish from Cleveland State University and a M.A. degree in Spanish Literature from the University of Rhode Island. In 2007, Ms. Godo-Solo completed a Specialist of Education (Ed.S.) degree in Counseling and Student Affairs from Western Kentucky University. Her thesis, "Success Rates of Minority Educator Recruitment and Retention (MERR) Scholarship Recipients and Other Education Majors," documents the efficacy of the MERR Scholarship Program and the importance of teacher education pipelines. She is a proud alumna of IRT (class of '91) and deeply passionate about educational access as it pertains to recruitment and completion of graduate degrees, mentoring, and best practices regarding programs that ensure students' success in graduate school.



Ja'Wanda S. Grant

Xavier University of Louisiana

Dr. Ja'Wanda S. Grant currently serves as Special Assistant to the Provost for Scholar Development and Institutional Alliances and Founding Director of Xavier Exponential (Honors Program) at Xavier University of Louisiana (XULA). In these roles, she supports institutional pipeline programs, and coordinates advising for nationally competitive scholarships and awards. She successfully advised XULA's first Goldwater Scholar in 2018. Dr. Grant is PI of the Mellon Foundation "Community of Scholars" award and co-PI of the NIH BUILD Project Pathways training award, both supporting faculty-mentored undergraduate research and preparation for graduate and professional programs. Dr. Grant's administrative positions have encompassed holistic support of STEM student matriculation to college towards graduate and professional programs. She has a special interest in designing programs that bridge both academic and lived experiences through collaborations with STEM training programs, Career Services, Campus Activities, and residential Life.



Kat Haklin

Johns Hopkins University

A Postdoctoral Teaching Fellow for the Mellon Foundation Humanities Collaboratory at Johns Hopkins University. She recently received her Ph.D. in French Language and Literature from Johns Hopkins, where her academic study was funded by the Alexander Grass Humanities Institute and the Dean's Teaching Fellowship. Her research on representations of enclosed space and claustrophobia examines a range of cultural production from nineteenth-century France—from poetry and prose, to painting and caricature, to fashion and the history of dress. She holds a B.A. in Art History and French from DePauw University, and an M.A. in French Literature from Florida State University. During the 2018-2019 academic year, she will teach French language and literature courses as a Postdoctoral Teaching Fellow in the Department of Romance Languages and Literatures at Washington University in St. Louis.



Sara Xayarath Hernández

Cornell University

Sara Xayarath Hernández is the Graduate School Associate Dean for Inclusion & Student Engagement and a University Diversity Officer at Cornell University. She provides vision, leadership, and overall management for Graduate School initiatives and policies related to diversity and inclusion. Hernández leads the Office of Inclusion & Student Engagement (OISE) and the Graduate School's efforts to recruit, retain, and support a diverse graduate student body. OISE in collaboration with other Graduate School and university partners, leads student engagement and professional development programming that fosters community and develops skills to enhance academic success, improve retention and completion rates, and prepare students to pursue multiple career pathways. Hernández serves as the Co-Director and Co-PI for the Cornell AGEP Program and as Co-PI for Cornell's Alfred P. Sloan Foundation funded UCEM Program. She holds a Bachelor of Arts in Zoology from Ohio Wesleyan University and a Master of Regional Planning from Cornell University.



Amber B. Hodges

Morgan State University

Amber B. Hodges, PhD, is an Associate Professor in the Department of Psychology at Morgan State University. Her current research examines factors and barriers impacting STEM-efficacy and persistence in minority students. Dr. Hodges was a fellow in the Leadership Development Institute supported by the Quality Education for Minority Network and the National Science Foundation. Additionally, she earned a Post-Graduate Certificate in Academic Leadership from The Chicago School of Professional Psychology through the Opportunities for Underrepresented Scholars Program funded by the National Science Foundation. Dr. Hodges earned her Ph.D. in Psychology from the Graduate School and University Center, The City University of New York (CUNY). She holds an M. Phil in Psychology from the Graduate School and University Center, CUNY, and a B.S. in Psychology from Bennett College. She recently co-authored a chapter describing successful mentoring models undergirded by psychology theories.



Marcus Jones

Regeneron Pharmaceuticals, Inc.

Dr. Jones is the Sr. Manager, R&D Planning, Strategy & Operations at Regeneron Pharmaceuticals, Inc. Dr. Jones previously was an Assistant Professor in the Genomic Medicine and Infectious Disease departments at the J. Craig Venter Institute (JCVI), where he served as team leader for all transcriptomics and genome sequencing projects in the NIAID funded Pathogen Functional Genomics Resource Center (PFGRC) at JCVI. Dr. Jones holds a B.S. from Southern University & A&M College in Baton Rouge, Louisiana and in 2005 earned his Ph.D. in microbiology from the Sackler Institute at New York University School of Medicine. He was awarded as the Principal Investigator a research award from the Defense Threat Reduction Agency (DTRA) for \$5.1M to study antibiotic resistance, and he has co-authored more than 35 peer-reviewed articles.



W. Marcus Lambert

Weill Cornell Graduate School of Medical Sciences

Dr. W. Marcus Lambert is currently Director of Diversity and Student Services at Weill Cornell Graduate School of Medical Sciences and Adjunct Assistant Professor of Microbiology at New York City College of Technology. At Weill Cornell, he is responsible for diversity initiatives, science outreach, housing, and immigration services for more than 400 biomedical Ph.D. students. He serves as an advisor to a number of student and professional organizations and sits on university review boards for Title IX, Student Life, and Diversity. His current research interests include identifying determinants of STEM student success in higher education.



Olivia Mansion

University of Tampa

Olivia Mansion earned a Master's degree from Brown University. At Brown, she co-founded the International Writers' Blog and was the Communications Officer for the Society for Advancing Chicanos/Hispanics & Native Americans in Science (SACNAS). Ms. Mansion deeply believes in The Leadership Alliance's vision, and in previous years, she assisted with the logistics and operations for The Leadership Alliance's National Symposium. She is passionate about creating platforms for sharing people's personal stories and opening pathways for success for people who are historically underrepresented. Currently, she is the Manager of Operations at the Lowth Entrepreneurship Center at The University of Tampa. In this role, she creates and supports entrepreneurial programs and operations at the Entrepreneurship Center. Ms. Mansion was born in Venezuela, and lives in Tampa, Florida where she received her Bachelor's degree at The University of Tampa.



Antionette Mutcherson

CoinSetters

Since she could remember, Antionette Mutcherson, has had an entrepreneurial spirit. Mutcherson felt that she needed a piece of the puzzle to becoming the business woman that she always envisioned herself as. She decided to return to school and received her MBA from Florida Agricultural and Mechanical University in December 2017. Previously, Mutcherson received her Undergraduate Bachelor of Science degree from Clark Atlanta University in 2007 and an Associate Degree in Jewelry Design from the Fashion Institute of Technology in 2010. It was while at FAMU she was asked to serve as a Minority and Retirement Security (MARS) Fellow, Mutcherson taught Financial Literacy throughout the university, community, and attended several conferences to present financial literacy research. As a MARS Fellow, Mutcherson discovered her passion of both learning and educating others on the importance of understanding and implementing financial responsibility. Thus, she became a Certified Financial Education Instructor through National Financial Educators Council to maximize her opportunities to spread her newfound financial wisdom.



Michelle Nearon

Yale University

Dr. Michelle Nearon is Associate Dean for Graduate Student Development and Diversity at Yale University. She provides the strategic vision and leadership to build and maintain a supportive campus community where graduate students from diverse backgrounds and experiences are supported in their intellectual, social, and professional pursuits. Dr. Nearon earned her B.S. and M.S. degrees in aerospace engineering from the Massachusetts Institute of Technology and Brooklyn Polytechnic University, respectively. After completing her Master's degree she devoted approximately ten years to both the aerospace and automotive industries. She returned to academia and earned a Ph.D. in Mechanical Engineering at Stony Brook University with a specialty in fluid mechanics. She remained at Stony Brook University as a Turner Postdoctoral Fellow studying turbulence modeling before being offered an Assistant Professorship in the Department of Mechanical Engineering. She joined the Yale community in 2008.



Chris O'Brien

National Academies of Sciences Engineering and Medicine

Chris O'Brien received her BS degree at St. Joseph's University and a Master of Arts degree in Education at Villanova University. Chris taught for six years in the parochial school system of the Archdiocese of Philadelphia before working in fellowship program administration at the National Academies in Washington, DC. Chris' program oversight has included privately and federally funded fellowship programs at the predoctoral, dissertation, and postdoctoral levels. Since 1979, her responsibilities have been primarily in the administration of Ford Foundation Fellowships designed to increase and foster diversity as a teaching tool in higher education. Chris created the Fellowship Roundtable in 1995. This biannual meeting brings together fellowship administrators whose goal is to share best practices and discuss innovations in the administration of fellowships. The Fellowship Roundtable is in its 23rd year of serving as a resource to fellowship administrators.



Joel D. Oppenheim

New York University

Presently Dr. Joel D. Oppenheim is Professor Emeritus of Microbiology and also serves as the Diversity Advisor to the Office of Science Research at the NYU School of Medicine. From 1994 -2014 he was the Senior Associate Dean of the Medical Center where he oversaw all PhD and Postdoctoral programs. For the past 24 years he has served (and continues to serve) on the NYU School of Medicine's MD and MD/PhD Admissions Committees and previously chaired the PhD Admissions (1994-2014). He was the founder and director of the NYU's Summer Undergraduate Research Program (1990-2013) and of the "What Can You Be With a PhD?" Symposium (1995 – 2013), the largest university based career development program for predoctoral students and postdoctoral fellows in the country. He has served on many national advisory committees, grant study sections, as a reviewer of numerous reports involved with graduate education, pipeline issues and the recruitment and retention of underrepresented students to graduate programs. He also has served on the external advisory boards and program review boards of a number of state and national accrediting agencies, colleges and universities. In 2010 Dr Oppenheim was the recipient of the AAAS (American Association of the Advancement of Sciences) Life Time Mentoring Award, one of the nation's highest mentoring awards. Dr. Oppenheim was also one of the founding members of the Leadership Alliance in 1992.



Teresa Ramirez

Federation of American Societies for Experimental Biology

Teresa Ramirez, Ph.D., is currently a Program Manager at the Federation of American Societies for Experimental Biology. Dr. Ramirez was a post-doctoral research fellow at the National Institutes of Alcohol Abuse and Alcoholism. She is a first-generation Mexican-American and the first from her family to have graduated from college and to have obtained a doctoral degree. In 2002, she participated in the Leadership Alliance Summer program at Brown University. She received her B.S. degree in General Biology from California State University, Dominguez Hills in 2004. Then, she participated in a post-baccalaureate program at the National Cancer Institute in Frederick, MD. Dr. Ramirez has been a member of the Society for the Advancement of Chicanos/as and Native Americans in Science (SACNAS) for seventeen years. Her doctorate degree is in Molecular Pharmacology and Physiology from Brown University and was the founder/first president of the Brown University SACNAS Chapter. Her post-doctoral research focused on how aging and chronic alcohol exposure played a role in causing liver injury. She is passionate about sharing her love for science and firmly believes in the importance of mentorship.



Patricia Rea

University of Pennsylvania

Patricia Rea is the Associate Director for Admissions in the Graduate School of Arts and Sciences, and is responsible for recruitment and admissions of one of the largest schools at Penn. She is also the program director of The Leadership Alliance for the Humanities and Social Science programs. She has been at Penn over 30 years and has helped many new students navigate through the graduate experience from admissions, financial and graduation.



Rochelle Smith

Washington University in St. Louis

Rochelle Smith is the Assistant Provost for Diversity at Washington University. She serves as the Institutional and Summer Program Coordinator for Leadership Alliance there. She began her career at Washington University in 1999 and until 2006, created and managed programs for students from low income, first generation college backgrounds. In the Office of the Vice Provost, she has created initiatives including the Joint Post-Baccalaureate Program in Physics, Mathematics and Earth & Planetary Sciences (JPP). In 2016 Ms. Smith was promoted to work full time on her institutional portfolio as Assistant Provost for Diversity, developing turnkey STEM pipeline programs, serving as lead administrator of the Professional Leadership Academy and Network (PLAN) for Washington University staff and serving as co-chair of the Standing Committee for Facilitating Inclusive Classrooms, among other efforts. Ms. Smith earned an A.S. in biological sciences from South Suburban College, a B.A. in Psychology from Chicago State University and an M.S. in Applied Health Behaviors Research from Washington University School of Medicine.



David A. Stout

California State University, Long Beach

David A. Stout is an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow at the National Science Foundation (NSF) in the Directorate of Computer and Information Science and Engineering (CISE) within the Division of Information and Intelligent Systems (IIS), where he oversees multi-agency research efforts in health and healthcare technology. He is currently on sabbatical from his assistant professor position at California State University, Long Beach with a joint appointment in the Department of Mechanical and Aerospace Engineering and in the Department of Biomedical Engineering at California State University, Long Beach, where he the founding director of the Long Beach Bioengineering Laboratory at founder of the Department of Biomedical Engineering at CSULB. He received his B.Sc. degree in Aerospace Engineering with a minor in Chemistry from California State University, Long Beach in 2010, and a Ph.D. from Brown University in Biomedical Engineering in 2014.



Natalie Strobach

Johns Hopkins University

Dr. Natalie Strobach is the Director of Undergraduate Research and is responsible for advising and administration of the Woodrow Wilson Research Fellowship program, the Dean's Undergraduate Research Awards (DURA), and school-wide programs that provide undergraduates with funding to pursue original research. Dr. Strobach did her doctoral work in the Department of Comparative Literature at the University of California Davis. Dr. Strobach has a long history working closely with undergraduate student researchers. Prior to coming to Johns Hopkins, she directed the STEM-focused McNair program at the University of Wisconsin, and before that she was with the McNair program at the University of California - Davis. She is a McNair alum herself and is dedicated to expanding access to high-level research among Hopkins undergraduates. She is also director of the Johns Hopkins Humanities Collaboratory, and her current research is a study on collaborative pedagogical techniques as applied to undergraduate research programs serving underrepresented student populations.



D'Ondre Swails

Brown University

D'Ondre Swails earned his B.A. from Morehouse College in 2015, where he double majored in Philosophy and Sociology. His research interests are in Black aesthetics and self-representations of the Black experience in different art forms and media, especially Hip-Hop music, film, and television. He is also interested in cultural theory and the philosophy of language/linguistics. When not engaged in research, D'Ondre enjoys watching music videos, attending concerts, and taking road trips.



Brian P. Sullivan

Washington University in St. Louis

Mr. Sullivan is the Executive Director of the Medical Scientist Training Program at Washington University in St. Louis. Since joining the MD-PhD program in 1994, he has overseen the matriculation of 584 MD-PhD students, and the graduation of 471 physician-scientists. He was a founding officer of the MD-PhD Section of the AAMC GREAT Group; he also serves as the Secretary-Treasurer of the National Association of MD-PhD Programs. In 2002, Mr. Sullivan established BioMedRAP, a summer research program for minority and disadvantaged undergraduates. Mr. Sullivan earned a B.A. in Political Science and an M.A. in Spanish Literature from St. Louis University. He also earned an M.B.A. from Washington University in St. Louis.



Naoko Tanese

New York University

Naoko Tanese PhD, Professor of Microbiology, received her PhD in Biochemistry from Columbia University studying the replication of retroviruses with Dr. Stephen Goff, and trained as a postdoctoral fellow at UC Berkeley with Professor Robert Tjian where she performed innovative work on transcriptional regulatory mechanisms. Continuation of this research at NYU as an independent investigator has led to numerous scientific collaborations with faculty studying cancer, developmental biology, virology, neuroscience, and stem cells. Since joining the NYU faculty in 1993, Dr. Tanese was appointed Co-director of the Medical Scientist Training Program in 2010, and Director of Basic Science Faculty Mentoring in 2013. Through these channels she plays an instrumental role in advancing the careers of many young scientists. In May 2014, Dr. Tanese was appointed associate dean for Biomedical Sciences and director of the Sackler Institute of Graduate Biomedical Sciences, which oversees NYU School of Medicine's PhD, MD/PhD, and Summer Undergraduate Research Programs. She leads recruitment and retention for all programs to ensure that recruits receive outstanding training throughout their tenure, from coursework and matching with the right faculty mentors to career development.



Sheila Thomas

Harvard University

Sheila Thomas is a faculty member in the Division of Medical Sciences (DMS) PhD Programs and Department of Medicine at Harvard Medical School and Associate Dean for Academic Programs and Diversity for the Graduate School of Arts and Sciences (GSAS). Her research interests are in cancer cell signaling; and she is actively involved in teaching and advising students in the DMS PhD programs and actively sits on the admissions committees for PhD programs in the sciences and MD/PhD program and engages with admissions committees for PhD programs across the social sciences and humanities. As Dean, she oversees diversity efforts for Harvard's 57 PhD programs. She directs the Summer Honors Undergraduate Research Program (SHURP), Summer Research Opportunities at Harvard (SROH) and the Graduate School's post-baccalaureate program, GSAS Research Scholar Initiative (Economics, Life sciences and Population Health Sciences). Dr. Thomas received her BA in Biochemistry and Molecular and Cellular Biology from Northwestern University, her PhD in Molecular Genetics from University of Pennsylvania, and did her post-doctoral training at Fred Hutchinson Cancer Research Center.



Catherine L. Will

Johns Hopkins University

Catherine L. Will has been a Program/Projects Manager in the Office of Graduate Student Affairs at the JHU School of Medicine since 1994, where she is responsible for admissions processing and recruitment for biomedical PhD programs. Ms. Will is a Certified Diversity Trainer, with an emphasis on graduate student recruitment. Ms. Will has managed the highly successful Summer Internship Program since 1995. She also manages the Postbaccalaureate Research Education Program (PREP) and Health Careers Opportunity Program (HCOP) Doctoral Diversity program. Ms. Will's work on disability recruitment programming has drawn the attention of the AAAS Project on Science, Technology and Disability. She has been an invited speaker on diversity at GMAC and the National Association of Graduate Admission Professionals (NAGAP). Ms. Will is a Baltimore community activist in the areas of civil rights and social justice, education, housing, poverty alleviation, and has served on several JHU-community task forces addressing these issues.

The Leadership Alliance Executive Office Staff



Medeva Ghee, PhD

Executive Director

Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

Dr. Medeva Ghee is the Executive Director of the Leadership Alliance and a faculty member in the Department of Behavioral and Social Sciences at Brown University. As Director of the Leadership Alliance, she is responsible for leading the 36-member consortium dedicated to increasing the participation of underrepresented students in competitive graduate and doctoral training programs and ultimately developing leaders and role models in academia, the public and private sectors. She is the Director and Principal Investigator on a number of programs to prepare students for Ph.D. training and to consider careers in the professoriate and broader research workforce. Dr. Ghee previously worked with the Clinton HIV I AIDS Initiative as a Laboratory Systems Specialist. In this capacity, she provided technical assistance and strategic advice on the development of laboratory plans and systems to support national HIV I AIDS prevention, care and treatment programs in the Initiative's partner countries in Sub-Saharan Africa. Informed by these experiences, she developed a course on multidisciplinary approaches to support HIV I AIDS care and treatment programs in Sub-Saharan Africa that is offered to Brown undergraduates and Master's degree students. A graduate of North Carolina State University with a bachelor's degree in zoology, she earned her M.S. and Ph.D. in microbiology from New York University School of Medicine. Her postdoctoral research was conducted with a team of CNRS researchers in Paris, France, where she employed biochemical and gene therapy technologies to investigate the impact of protein aggregation in Parkinson's disease. At Brown, Dr. Ghee is actively engaged in mentoring and has served as a faculty advisor for Brown undergraduate independent thesis projects and mentor for graduate students. She was honored by the Samuel M. Nabrit Black Graduate Student Association with the Ruth J. Simmons Award for Leadership.



Chloe Poston, PhD

Associate Director

Dr. Chloe N. Poston is a proud graduate of Clark Atlanta University, where she earned a B.S. in Chemistry. Dr. Poston earned both her Masters and Doctoral degrees in Chemistry from Brown University. Her thesis research was focused on mass spectrometry-based proteomic analysis of the mitochondrial-associated endoplasmic reticulum (MAM). Her work highlighted the connections between the role of calcium trafficking from the ER to the mitochondria and neurodegenerative disease. During her studies at Brown, Chloe served as the President of the Nabrit Black Graduate Student Association, the Chair of the Graduate Students of Color Conference, and a member of the University Diversity Advisory Board.

During her Post-Doc at Eli Lilly and Company in the biological mass spectrometry group, Dr. Poston explored her interests in science policy, diversity, and education through her blog, The Poston Collective. Dr. Poston continued to pursue this interest as an AAAS Science and Technology Policy Fellow at the National Science Foundation where she focused on projects related to scientific communication and broadening participation in science, serving as the executive secretary for the Federal Coordination in STEM Education Broadening Participation Subcommittee. In this role, Dr. Poston worked with 13 government agencies to identify opportunities to encourage individuals from underrepresented groups to pursue and remain in STEM careers. Dr. Poston leveraged the government knowledge she gained in her fellowship as a science policy consultant where she focused on issues related to diversity in the biomedical research workforce.



William Wittels, PhD

Manager of Undergraduate & Graduate Programs

Dr. William Wittels is the Manager of Undergraduate and Graduate Programs for the Leadership Alliance. In that capacity, he helps to manage the Leadership Alliance's Summer Research Early Identification Program, and Leadership Alliance Mellon Initiative. He also assists in program evaluation and strategic planning across the organization. Prior to joining The Leadership Alliance, he was a member of the Tobin Project, where he fostered multi-year research initiatives on the role of the media in preventing (or abetting) special interest influence in democracies and on the practice and theory of strategic threat assessment. He also managed their Graduate Student Fellowship and created their Prospectus Development Workshop. He has held teaching fellowships at Duke University as well as Humboldt University in Berlin. He received his Ph.D. and Certification for Teaching Politics from the Department of Political Science at Duke. While there, he was also affiliated with the Kenan Institute of Ethics.



Maria DoVale

Conference & Events Specialist

Maria DoVale is the Conference & Events Specialist for the Leadership Alliance. It is Ms. DoVale's primary responsibility to plan, organize, coordinate and develop sessions that promote networking, mentoring and professional development for undergraduate students, graduate students and our doctoral scholars. As the Ex-Officio of the Leadership Alliance Symposium Planning Committee, she works alongside colleagues from various member institutions who provide suggestions on different aspects of program planning for the Symposium. Ms. DoVale comes to us with a wealth of experience in administration, event planning and management augmented with exemplary technical, organizational and customer service skills. Prior to her appointment with the Leadership Alliance, Ms. DoVale worked for 5½ years at the Providence Warwick Convention & Visitors Bureau helping to promote the state of Rhode Island as well as the city of Providence as a convention destination. Prior to this appointment, she worked for American Express corporate travel for eight years. Ms. DoVale holds a B.A. in Travel & Tourism Management from Johnson & Wales University.



Barbara Kahn

Coordinator of Undergraduate Programs

Barbara Kahn is the Coordinator for Undergraduate Programs for the Leadership Alliance. In this capacity, she coordinates the combined application process for the 21 undergraduate summer research sites and supervises the Alliance summer research program at Brown University. Prior to her appointment with the Leadership Alliance, Ms. Kahn was part of the professional development team at Brown University's Annenberg Institute for School Reform, a center promoting quality education in urban communities. She came to Brown University from Chaffee & Partners, a public relations and advertising firm in Providence, R.I. Ms. Kahn holds a B.S. in Education from Boston University.



Ashleigh LoVette

Project Assistant

In addition to being Project Assistant for The Leadership Alliance, Ashleigh LoVette is a doctoral candidate in Behavioral and Social Sciences within the School of Public Health at Brown University. With an interest in global health, she has spent time completing research and working in Ghana and South Africa. Her research aims to promote mental health and well-being among young people, with special attention to strength-based approaches and cultural humility. Ashleigh's current research interests include understanding how we conceptualize and measure resilience, particularly in the context of HIV and AIDS.



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