

UROYOÁN R. WALKER-RAMOS

Committed to academic quality, professional, motivated to lead a strong academic community and empower a high level of education. Proven ability and the desire to reach and influence alumni, through a philosophy that champions the value of teamwork. Motivated to strengthen relationships to enhance the organization's presence and reputation while demonstrating the commitment in promoting a diverse environment.

Nominated to become UPRM Chancellor (March 2010, September 2011)
Recognized by the House of Representatives of Puerto Rico (April 2010)
Invited Speaker for Carvin's High School Graduation (May 2005)
Certificate of Teaching Excellence (Spring 1999, Fall 2000)

EDUCATION

Ph.D., Louisiana State University, Mathematics, 2001
M.A., Louisiana State University, Pure Mathematics, 1998
B.S., University of Puerto Rico at Mayagüez, Pure Mathematics, Cum Laude, 1996

EXECUTIVE AND ADMINISTRATIVE EXPERIENCE

Director of Operations and Logistics
February – October 2011
Fundación Mayagüez 2010, Inc.

Director of Operations and Logistics
October 2009-November 2010
XXI Central American and Caribbean Sports Games, Mayagüez 2010

Special Assistant to the Chancellor for Infrastructure Affairs
January 2007-September 2009
University of Puerto Rico at Mayagüez

Mathematics Coordinator for PR, Presidential Award for Excellence In Mathematics and Science Teaching, June 2003-present
National Science Foundation (NSF)

Science Coordinator for PR, Presidential Award for Excellence In Mathematics and Science Teaching, January 2008-present
National Science Foundation (NSF)

Associate Dean of Administration
February-December 2006
University of Puerto Rico at Mayagüez

Mathematics Liaison in Mayagüez
January 2004-May 2006
PR-MSP AIACiMa

Coordinator, Center Professional Enhancement
Spring 2006
University of Puerto Rico at Mayagüez

Associate Director of Graduate Studies
January 2004-December 2005
University of Puerto Rico at Mayagüez

Graduate Program Coordinator, Department of Mathematics
August 2003-January 2004
University of Puerto Rico at Mayagüez

Associate Chair of Mathematics
 July 2002-May 2003
 University of Puerto Rico at Mayagüez

President
 April 2005-March 2007
 Asociación Puertorriqueña de Maestros de Matemáticas

Vice-President
 April 2004-April 2005
 Asociación Puertorriqueña de Maestros de Matemáticas

ACADEMIC AND FACULTY
 EXPERIENCES

Professor (July 2009-present), Associate Professor (July 2004- June 2009), and
 Assistant Professor (July 2001 – June 2004)
 University of Puerto Rico at Mayagüez

Faculty Representative to the UPR Governing Board
 May-September 2013
 University of Puerto Rico

UPRM Faculty Representative to the University Board
 July 2012-May 2013
 University of Puerto Rico

Academic Senator for the College of Arts & Sciences
 July 2011-May 2013
 University of Puerto Rico at Mayagüez

Teaching Assistant of Mathematics
 Fall 1997 - Spring 2001
 Louisiana State University (LSU)

COMMITTEE WORK

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF PUERTO RICO AT MAYAGÜEZ

President, Department's Chair Search Committee
 March-September 2012

Member, Personnel Committee
 July 2012-present

Member, Curriculum Committee
 August 2002-February 2006

President, XX Seminario Interuniversitario de Investigación Matemática
 (SIDIM) Committee, March 2004-February 2005

President, Professional Development Committee
 July 2001-January 2004

President, Graduate Affairs Committee
 July 2003-January 2004

Faculty Advisor, "Asociación de Estudiantes de Matemáticas y Ciencias de
 Computación" (AEMCC)
 July 2002-June 2004

UNIVERSITY OF PUERTO RICO AT MAYAGÜEZ

Member, Disciplinary Board
 August 2012-May 2013

Member Curricular Affairs Committee, UPRM Academic Senate
July 2011-May 2013

Director, Travesía...una pausa musical
June 2008-September 2009

Director Ejecutivo, Programa de Práctica Intramural
August 2008-September 2009

President, Comité Casa Abierta 2008
August 2007-March 2008

Comité Timón Académico, Oficina de Mejoramiento Continuo y Avalúo
January 2006-September 2009

Intellectual Property Committee
August 2005-September 2009

Member, National Council on Accreditation of Teacher Education (NCATE)
Steering Team
March 2005-August 2006

Graduate Council
January 2004-December 2005

Member, Middle States Task Force 5, Standard 7, Institutional Assessment
Spring 2004

Member, Middle States Task Force 6, Standards 8 & 9, Student Admissions
and Student Support Services
Spring 2004

NATIONAL LEVEL

President, Academic, Student & Research Affairs Committee
Member, Finance, Infrastructure & Retirement System Committee
Member, Audit Committee
Member, Technology Committee, UPR Governing Board
May-September 2013

Academic Affairs Committee, UPR University Board
September 2012-May 2013

Mayaguez City Anniversary Celebration Committee, Municipality of
Mayagüez
June 2010-October 2012

Cost Management and Investment for Students Success
Acceso al Éxito
October 2008-September 2009

National Selection Committee, Presidential Award for Excellence in
Mathematics and Science Teaching
National Science Foundation
August 2008, July 2012

President, Who Wants to be a Mathematician,
American Mathematical Society
Fall 2005

Member, The College Board Examiners for the Mathematics Achievement
Test, August 2003-present

Member, SIDIM Committee, Interuniversity Seminar on Mathematics
Research
February 2002-Present

PROFESSIONAL DEVELOPMENT

Simulacro de Manejo de Emergencias
Agencia Estatal para el Manejo de Emergencias y Administración de Desastres
April 2010

Introduction to the Incident Command System (IS-00100.a)
ICS for Single Resources and Initial Action Incidents (IS-00200.a)
National Incident Management System: An Introduction (IS-00700.a)
National Response Framework: An Introduction (IS-00800.b)
National Incident Management System (NIMS)
Emergency Management Institute, FEMA
December 2009

Webinar: Swine Flu: Campus Planning & Preparation
May 2009

Webinar: Strategies for Controlling Cost and Enhancing Revenue
April 2009

Webinar Course on Research Commercialization
National Council of Entrepreneurial Technology Transfer
Spring 2009

Foro Académico: Exigencias de la Profesión Magisterial en el Siglo XXI
Comisión de Educación, Juventud, Cultura y Deportes, Senado de Puerto Rico
August 2008

Coloquio sobre Propiedad Intelectual en el RUM
Biblioteca General UPR-Mayagüez, Mayagüez, PR
March 2008

State Coordinator's Meeting
Presidential Awards for Excellence in Mathematics and Science Teaching
National Science Foundation (NSF), Washington, DC
January 2008

2^{da} Reunión de la Red de Innovación Universitaria
Administración Central de la Universidad Interamericana de Puerto Rico
San Juan, PR
October 2007

XVIII Congresso Unione Matematica Italiana
Bari, Italy
September 2007

2^{do} Encuentro Repensando la Educación Subgraduada
Rincón of the Seas, Rincón, PR
April 2007

Seguridad y Salud en el Uso de Andamios
Administración de Seguridad y Salud Ocupacional de Puerto Rico
Canóvanas, PR
March 2007

Financiamiento para la Comercialización de Tecnologías
Mayagüez, PR
January 2007

Reglamento para Ascensores y Equipos Relacionados-Reglamento 18
Reglamento para Calderas y Recipiente a Presión-Reglamento 17
Administración de Seguridad y Salud Ocupacional de Puerto Rico
Hato Rey, PR
November 2006

Heartsaver® First Aid: Environmental Emergencias, Adult/Child AED
Betto's Ambulance, Mayagüez, PR
October 2006

Taller de Gerencia Académica V
Colegio de Ingenieros y Agrimensores de Puerto Rico
Mayagüez, PR
April 2006

Repensando la Educación Subgraduada
Isabela, PR
March 2006

Professional Development Materials for Teachers of Grades 5-10
Learning and Teaching Linear Functions Facilitation Institute
San Diego, CA
March 2006

Leadership Seminar on Mathematics Professional Development
Teachers Development Group 2006, Portland, OR
February 2006

State Coordinator's Meeting
Presidential Awards for Excellence in Mathematics and Science Teaching
National Science Foundation (NSF), Washington, DC
January 2006

Primer Simposio Sobre la Retención en los Cursos de Pre cálculo y Métodos
Cuantitativos en la UPR
UPR-Mayagüez, Mayagüez, PR
November 2005

11^{va} Conferencia Anual del College Board
Paradise Puerto Rico Resort, Rio Grande, PR
November 2005

Mathematical Leadership Institute, West Ed Academy
Denver, CO
September 2005

The Mathematical Knowledge for Teaching (K-8): Why, What and How?
Mathematical Sciences Research Institute
Asilomar, CA
May 2005

VI Encuentro Internacional y I Nacional de Educación y Pensamiento:
Reforma Educativa: currículo, constructivismo, desarrollo de competencias y
humanismo, Guadalajara, Jalisco, México
March 2005

Seminario Interuniversitario de Investigación Matemática (SIDIM)
UPR-Mayagüez
February 2005

State Coordinator's Meeting Presidential Awards for Excellence in Mathematics and Science Teaching
National Science Foundation (NSF), Washington, DC
January 2005

PROFESSIONAL MEMBERSHIPS

American Mathematical Society • Mathematical Association of America •
Asociación Puertorriqueña de Maestros de Matemáticas.

SCHOLARSHIP**PUBLICATIONS**

Books

Cálculo para la Ciencias Biológicas y Más, John Wiley & Sons Inc., P. Rodríguez, E. Lorenzo, F. Santiago, U. Walker 2007.

Articles

Plan de transportación utilizado durante la celebración de los XXI Juegos deportivos Centroamericanos y del Caribe: "Mayagüez 2010", Dimensión: Revista del Colegio de Ingenieros y Agrimensores de Puerto Rico, H. Carlo, L. Lugo, J.C. Rivera, U. Walker, Año 25, Vol. 2, 2011.

RUMbo a los Cien Años de Historia: Un nuevo enfoque en la construcción y remodelación de edificios y estructuras del Recinto Universitario de Mayagüez de la Universidad de Puerto Rico, Dimensión: Revista del Colegio de Ingenieros y Agrimensores de Puerto Rico, A. González, N. Méndez, F. Maldonado, U. Walker, Año 23, Vol. 1, 2008.

Construcción en el RUM...Rumbo a los Cien Años de Historia, A. González, U. Walker, N. Méndez, October 2007.

The Art of Asking Thought Provoking Questions in the Mathematics Classroom, C. Bellido, U. Walker-Ramos, K. Wayland, MSPnet December 2005.

On k-Conjugacy Classes of Maximal Tori in Semi-Simple Linear Algebraic Groups, Ph.D. Thesis, Louisiana State University, Baton Rouge, LA 2001.

Skolem-Noether for Algebras with Involutions, Proceedings of the XX SIDIM, February 2005.

El Arte de Generar Buenas Preguntas Matemáticas, C. Bellido, U. Walker, K. Wayland, El Sol. 2005.

Generando Preguntas Conceptuales, C. Bellido, U. Walker, K. Wayland, Proceedings of the XX SIDIM, February 2005.

Análisis de solicitantes, matrícula y egresados de los programas graduados del Recinto Universitario de Mayagüez 1993-2004, <http://grad.uprm.edu/informe93-04.htm>, 2004.

Informe de Tiempo Promedio de Graduación para los Estudiantes Graduados del Recinto Universitario de Mayagüez de la Universidad de Puerto Rico, <http://grad.uprm.edu/tiempogrado.pdf>, 2004.

Resultados Clásicos Acerca de Sumas de Cuadrados, Boletín APMM octubre 2003.

SELECTED PRESENTATIONS

Motivación Intrínseca. Mi Rol dentro del Pasado, Presente y Futuro de la Educación en Puerto Rico, July 2013.

Transformando la Enseñanza-Aprendizaje de las Matemáticas a través de la Tecnología: el Maestro ante Retos y Desafíos, December 2012.

Modelos Acutuales y Estrategias de Enseñanza Efectivas de Base Científica para el Aprendizaje de las Matemáticas, Escuelas Católicas de Puerto Rico, November 2012.

Matemáticas. Pearson, June 2011.

Come See the Mathematics Fair. AFAMac, June 2011.

Economic Impact of Mayagüez 2010 on Porta del Sol, Pontifical Catholic University of Puerto Rico, October 2010

The Design and Implementation of a University Environmental Management System: A Tool for Developing and Teaching Environmental Stewardship CoHemis International Conference on Green Communities, UPRM, June 2008.

Manejo de Emergencias: Plan de Desalojo, 8^{vo} Taller de Gerencia Académica, Mayagüez, PR, August 2007.

Shapes, Models and Reasoning, Heliophysics Projects Division, NASA's STEM for Administrators Institute 2007, Saint Thomas, US Virgin Islands, July 2007.

Making Mathematics Count, Our Star the Sun Summer Institute 2007 – NASA, San Juan, PR, June 2007.

Nuevos Criterios de Contraloría para Evaluar las Unidades del Sistema de la Universidad de Puerto Rico, Plan de Prevención y Anticorrupción, 6^{to} Taller de Gerencia Académica Mayagüez, PR, December 2006.

Teaching Mathematical Concepts, NASA's STEM Administrators Group 2006, Isla Verde, PR, July 2006.

La Mujer Puertorriqueña en las Matemáticas w/ Gustavo Santana* and Sandra González, Segundo Congreso de la Mujer en las Ciencias, UPR-Utuado, November 2005.

Las Matemáticas están entre Nosotros, Carvin School, Carolina, PR, November 2005.

El Futuro es Tuyo, Invited Speaker at Carvin School's Graduation Ceremony Universidad Interamericana de Puerto Rico-Recinto Metropolitano, May 2005.

Provocando el Pensamiento con Preguntas Conceptuales en Matemáticas (con Carmen Bellido y Keith Wayland), Convención de la Asociación Puertorriqueña de Maestros de Matemáticas (APMM), Universidad Interamericana de Puerto Rico-Recinto Metropolitano, April 2005.

Provocando el Pensamiento con Preguntas Conceptuales en Matemáticas (con Carmen Bellido y Keith Wayland), VI Encuentro Internacional y I Nacional de Educación y Pensamiento llevado a cabo en el Centro Universitario de Ciencias Económico Administrativas (CUCEA), Guadalajara, Jalisco, México, March 2005.

Preguntas Conceptuales SIDIM XX UPR-Mayagüez, February 2005.

Incentivando la Redacción y el Análisis en Matemáticas, Convención APMM en Universidad del Este, April 2004.

Incentivando la Redacción y el Análisis en Matemáticas, Olimpiadas del Cálculo en UPR-Cayey, April 2004.

Incentivando la Redacción y el Análisis en Matemáticas, On k -Conjugacy Classes of Maximal Tori, SIDIM XIX UPR-Cayey, February 2004.

Técnicas para Resolver Problemas en las Matemáticas, Ciencias e Ingeniería, Seminario de Desarrollo Profesional, Programa de Nivel Avanzado, The College Board, October 2003.

"Acerca de Fracciones Continuas", Programa Access, Universidad Interamericana de Puerto Rico en Bayamón, July 2003.

"La Magia y las Matemáticas" Convención de la Asociación Puertorriqueña de Maestros de Matemáticas, UPR-Humacao, Humacao, PR, April 2003.

On k -Conjugacy Classes of Maximal Tori, 984th American Mathematical Society Meeting, Louisiana State University, Baton Rouge, LA, March 2003.

Problemas de Conjugación para Álgebras con Representación Fiel Única SIDIM XVIII, Pontifical Catholic University of Puerto Rico, Ponce, PR February 2003.

Métodos Para Resolver Problemas de Temas Variados, UPR-Mayagüez "Campamento para Estudiantes Olímpicos", May-June 2002.

Skolem-Noether for Algebras with Involutions, XVII SIDIM. Universidad Interamericana de Puerto Rico-San Germán, February 2002.

Skolem-Noether for Frobenius Algebras at UPR-Mayagüez Mathematics Department Colloquium, September 2001.

Artin Groups for Other Coxeter Groups at Rhode Island College, Providence, RI, March 2001.

Classical Results On Sums Of Squares Over the Integers at Baldwin-Wallace College, Ohio, February 2001.

TEACHING AND ADVISING

UNDERGRADUATE COURSES

At UPRM: Remedial Mathematics, Precalculus I, Precalculus II, Introduction to the Foundations of Mathematics, Calculus for the Biological Sciences I, Calculus for Biological Sciences II, Introduction to Geometry, Calculus I, Calculus II, Theory of Numbers, Introduction to Algebraic Structures, Introduction to Ordinary Differential Equations, Linear Algebra, Seminar on Pure Mathematics, and Student Teaching of Mathematics in Secondary School.

At LSU: Preparation for College Mathematics, College Algebra, Plane Trigonometry, Calculus with Business and Economics Applications, and Analytic Geometry & Calculus

GRADUATE COURSES

Abstract Algebra I, Abstract Algebra II, Theory of Functions of a Real Variable, Mathematics Graduate Seminar, and Thesis,

GRADUATE ADVISING

Gabriel Uribe, Acerca de las Formas Torcidas sobre los Grupos Lineales Algebraicos, Master's Thesis, June 2008.

UNDERGRADUATE ADVISING

Claudia Huyke. Sobre la Clasificación de Grafos de Iteraciones. Sponsored by PR-LSAMP (\$4,000), Summer 2011.

Darysabel Soto-Pujols and Juan A. Estrella Martínez. Análisis de estructuras algebraicas y técnicas para implantarse en la sala de clases. Sponsored by AIACiMa (\$2,000), Summer 2006.

Sandra González and Gustavo Santana. Explorando el Desarrollo del Pensamiento Matemático. Sponsored by AIACiMa (\$2,000), Summer 2005.

Abiud Lecler. Acerca de Sumas de Enteros Consecutivos. Sponsored by AIACiMa (\$1,000), Summer 2004.

Rodny Rodríguez. *On Solving the Pell Equation via Continued Fractions*. Sponsored by PR-LSAMP (\$1,000), Fall 2003.

Rodny Rodríguez. *On Approximating Irrationals via Continued Fractions*, sponsored by PR-LSAMP (\$1,000), Summer 2003.

ADDITIONAL RESEARCH - HIGH SCHOOL

Academia de Investigación Matemática en Escuela Superior. Sponsored by the Department of Education of Puerto Rico (\$126,480.00), July 2003-June 2004.

Directed two Science Fair Projects of Students from CROEM: Triangles on the Integral Lattice by José Conde, and Sums of Consecutive Numbers by Alexis Cruz, December 2002-March 2003.

SPECIAL GRADUATE SERVICES

Member of the Student's Graduate Committee:

Juan O. López-Gerena. Closure Operators, Torsion Theories, and Radicals in a Non-Abelian Environment (Gabriele Castelline-Advisor).

Angy Coronel. Teorías de torsión, radicales y operadores de clausura en la categoría de anillos (Gabriele Castelline-Advisor).

Gloria Ruiz. A wavelet-based solution of the Kuramoto-Sivashinsky equation (Alexander Urintsev-Advisor).

Joel Meléndez. Ultraproducts and Algebraic Structures (Luis Cáceres-Advisor).

Office of Graduate Studies Representative for Master's Thesis Defenses at UPR-Mayagüez:

Ms. Rhoda A. Moreno-Cedeño, Ms. Gloria M. Molina Vinasco (Civil Engineering); Mr. Miguel Reinaldo Bonnett del Álamo, Mr. Teddy Rodríguez, Mr. César Edgardo Echevarria, Mr. Carlos Cuellár, Mr. Franz Aguirre, Mr. Juan Carlos Agüero Flores, Mrs. Zigel Paola (Physics); Mr. David A. Ortiz, Mr. Jorge Villamizar, Mr. Miguel A. Rivas-Avilés (Computer Engineering); Mr. Leonardo Pacheco (Chemistry), Mr. Elkin González (Mathematics); Ms. Mabel Delice Ramírez Vélez (Electrical Engineering).