

ADVANCE PRiME Speaker Series:

Negotiating a Career in the Mathematical Sciences



Keynote addresses will take place over networking luncheons in the Sagamore Restaurant's Wabash Room of the Memorial Union. Research talks will start at 3:30 PM in Room 108 of the Recitation Building.



Friday, June 14, 2013

Luncheon Keynote: What's Your Legacy?

Research Talk: **DNA Topology and Tangle Equations**

Dr. Candice Price is an African-American Assistant Professor of Mathematics at the United States Military Academy (West Point). She graduated in Mathematics from the University of Iowa in 2012. Her research interests include mathematical biology and the application of topology to DNA.



Friday, June 21, 2013

Luncheon Keynote:Mathematics in an Interdisciplinary Research WorldResearch Talk:Sensitivity Analysis for Delay Differential Equation Models

Dr. Danielle Robbins is an African-American Data Analyst of Research and Evaluations at the Southwest Interdisciplinary Research Center. She completed her PhD in Biomathematics at North Carolina State University in August 2011. For her current work, she provides mathematical and statistical analysis of social behavioral data to help end health disparities in minority communities.



Friday, June 28, 2013

Luncheon Keynote:	Persistence, Balance and Flexibility in Negotiating a Career in the Mathematical Sciences
Research Talk:	Analyzing Complex Behavior in Fluid Flows and Signals

Dr. Sherry Scott is an Assistant Professor of Mathematics at Marquette University. She graduated in Applied Mathematics, receiving notoriety for being one of three African-American women to receive a doctorate in the mathematical sciences from from the University of Maryland in 2000. Her dissertation was entitled *Spectral Analysis of Fractal Noise in Terms of Wiener's Generalized Harmonic Analysis and Wavelet Theory*.



Friday, July 5, 2013

Luncheon Keynote:How to Find CollaboratorsResearch Talk:An Introduction to Noncommutative Invariant Theory

Dr. Chelsea Walton is an African-American NSF Postdoctoral Fellow at the Massachusetts Institute of Technology. She graduated in Mathematics from the University of Michigan in August 2011. Her research interests concern the generalization of algebraic geometry and invariant theory to rings which are noncommutative.



Friday, July 12, 2013

Luncheon Keynote:Career: The Whole Package (Work and Other Aspects of Life)Research Talk:Representations of Quiver Algebras

Dr. Shannon Talbott is an Assistant Professor of Mathematics of Native American descent at the College of Mount St. Joseph. She graduated in Mathematics from the University of Iowa in 2012. Her research interests concern the representation theory of finite-dimensional algebras.



Friday, July 19, 2013

Luncheon Keynote:American Pi: Changing the Stereotypes in MathematicsResearch Talk:On a Nonlocal Reaction Diffusion Equation:

Applications to Crime, Neural Networks, and Ecology

Dr. Nancy Rodriguez is a Mexican-American NSF Postdoctoral Fellow in Mathematics at Stanford University. She graduated in Mathematics from the University of California at Los Angeles in 2011. Her research interests concern systems of partial differential equations which model crime patterns from the sociological point of view.



Friday, July 26, 2013

Luncheon Keynote: Ph.D. Plus Epsilon: Life After Ph.D.

Research Talk: Hypergeometric Functions in Arithmetic Geometry

Dr. Adriana Salerno is a Venezuelan Assistant Professor of Mathematics at Bates College. She graduated in Mathematics from the University of Texas at Austin in 2009. Her research interests include number theory, arithmetic geometry, special functions, and communicating mathematics to the general public. Dr. Salerno runs a blog for the American Mathematical Society (AMS) entitled PhD + epsilon.

With funding from the ADVANCE – Purdue and the Center for Faculty Success and modeled after Faculty Advancement, Success and Tenure (FAST), Purdue University will host "ADVANCE PRIME: Purdue Research in Mathematics Experience." This summer program seeks to build a community of underrepresented minorities in the mathematical sciences, focusing on undergraduate and graduate students in mathematics, statistics, and mathematics education. For more information, contact Dr. Alejandra Alvarado at (765) 494-1423 or alvaraa@math.purdue.edu; or Dr. Edray Goins at (765) 494-1936 or egoins@math.purdue.edu.