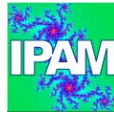


Modern Math Workshop

Sponsored by the NSF Math Institutes



October 10, 2012

Time	Graduate Students and PhD's	Undergraduates
Noon-1:00	Registration & Lunch	
1:00-1:25	SAMSI-Dr. James Nagy	Mini-Course 1 & 2 Concurrent
1:30-1:55	MBI-Dr. Paul Hurtado	
2:00-2:25	MSRI-Dr. Micah Warren	
2:30-2:40	Break	
2:45-3:10	IMA-Dr. Gabriela Martinez Lopez	Mini-Course 1 & 2 Concurrent
3:15-3:40	ICERM-Dr. Jessica Purcell	
3:45-4:10	Break/Snacks	
4:15-5:00	Keynote: Dr. Mariel Vasquez	
5:15-6:25	Math Institutes Panel	
6:30-8:00	Math Institutes Reception	

Room Locations

613 – *Mini-Course 1: Sage Software Workshop*

Dr. William Stein, University of Washington and Dr. Alejandra Alvarado, Purdue University

614 – *Mini-Course 2: Inferring Gene Regulatory Networks: An Algebraic Geometry-Systems Biology Connection*

Dr. Brandilyn Stigler, Southern Methodist University

611 – Lunch, Snacks, Reception

612 – All other talks and sessions

Dr. James Nagy, Statistical and Applied Mathematical Sciences Institute (SAMSI) and Emory University
Large Scale Scientific Computing Problems in Medical Imaging

Dr. Paul Hurtado, Mathematical Biosciences Institute (MBI)
Immune-Pathogen Dynamics & Modeling Simple Multispecies Interactions

Dr. Micah Warren, Mathematical Sciences Research Institute (MSRI) and Princeton University
Optimal Transport and Geometry

Dr. Gabriela Martinez Lopez, Institute for Mathematics and its Application (IMA)
Optimization Problems with Probabilistic Constraints

Dr. Jessica Purcell, Institute for Computational and Experimental Research in Mathematics (ICERM) and Brigham Young University
Low-dimensional Topology, Geometry, and Dynamics

KEYNOTE

Dr. Mariel Vazquez, San Francisco State University
DNA Unknotting and Unlinking

Math Institutes Panel

Dr. Jill Pipher, Director, ICERM

Dr. Suzanne Lenhart, Associate Director of Education, Outreach & Diversity, NIMBioS

Dr. Alissa Crans, Director of Educational Activities, MSRI

Dr. Chehrzad Shakiban, Associate Director, IMA

Dr. Helen Chamberlain, Associate Director, MBI

Dr. Snehalata Huzurbazar, Deputy Director, SAMSI

Dr. Christian Ratsch, Associate Director, IPAM

Moderator: Kelly Sturner, Education & Outreach Coordinator, NIMBioS

We invite you to a reception immediately following the panel discussion. Meet representatives from the NSF Math Institutes and Microsoft. Refreshments will be served.

October 11, 2012

Time	All Participants
9:00-9:25	IAS-PCMI-Dr. Rafe Mazzeo
9:30-9:55	NIMBioS-Dr. Calistus Ngonghala
10:00-10:25	IPAM-Dr. Tatiana Toro
10:30-10:55	Break
11:00-noon	Information Session with Sponsors

Room Location
612 – All events

Dr. Rafe Mazzeo, Institute for Advanced Study-Park City Mathematics Institute (IAS-PCMI) and Stanford University

The World of Modern Geometry - Some Problems and Applications

Dr. Calistus Ngonghala, National Institute for Mathematical and Biological Synthesis (NIMBioS)

The Role of Stochasticity and Safety Nets in Breaking Disease-induced Poverty Traps

Dr. Tatiana Toro, Institute for Pure and Applied Mathematics (IPAM) and University of Washington

Interactions between Analysis and Geometry

Information Session with Sponsors

Dr. Sastry G. Pantula, Division Director, Division of Mathematical Sciences, National Science Foundation
TBD Representative, National Geospatial Intelligence Agency

