WiMSoCal 2017

Saturday, February 11, 2017
University of Southern California

Schedule

Location: JFF
8:15 – 8:45 Registration, coffee and continental breakfast

Location: JFF Auditorium LL105
8:45 – 9:00 Brief welcome

Talk Session I
Location: JFF 239
9:00 – 9:20 Bahar Acu, USC
The Weinstein Conjecture
9:30 – 9:50 Lyla Fadali, Occidental College
Exploring topological quantum field theories using surfaces
10:00 – 10:20 Nancy Scherich, UC Santa Barbara
Mapping the Braid Groups into Lattices
10:30 – 10:50 Erica Flapan, Pomona College
Intrinsically asymmetric 2-colorings of spatial graphs

Location: JFF 240
9:00 – 9:20 Nicolle Sandoval Gonzalez, USC
Categorifying the Boson Fermion Correspondence
9:30 – 9:50 Hayan Nam, UC Irvine
Counting simultaneous core partitions
10:00 – 10:20 Sarah Yoseph, Claremont Graduate University
An Enumeration process of n-quandles
10:30 – 10:50 Nivedita Bhaskar, UCLA
Reduced Whitehead groups of prime exponent algebras over p-adic curves

Location JFF 241
9:00 – 9:20 Valerie Poynor, California State University, Fullerton
Combining functional data with hierarchical Gaussian process models
9:30 – 9:50 Dina Sinclair, Harvey Mudd College
Incorporating the Center for Disease Control and Prevention into Vaccine Pricing Models
10:00 – 10:20 Joyce Yang, Harvey Mudd College
Examining Change points in Stock Data
10:30 – 10:50 Jessica Jaynes, California State University, Fullerton
Using blocked fractional factorial designs to construct discrete choice experiments for healthcare studies

Location: JFF 316

9:00 – 9:20 Rachel Levy, Harvey Mudd College
Curious about Math in Industry? Introducing the BIG Math Network

9:30 – 9:50 Tina Woolf, Claremont Graduate University
An Asynchronous Parallel Approach to Sparse Recovery

10:00 – 10:20 Anna Ma, Claremont Graduate University
Iterative Methods for Solving Factorized Linear Systems

10:30 – 10:50 Kimberly Ayers, Pomona College
Skew Product Flows and Hybrid Systems

Location: JFF Second Floor

11:00 – 11:20 Coffee

11:20 – 12:15 Breakout Sessions (Various rooms in JFF)

Location: JFF Ground Floor Lobby and Patio

12:15 – 1:30 Lunch

12:45 – 1:30 Panel discussion (Auditorium LL 105)

Location: JFF Auditorium LL 105

1:30 – 2:30 Keynote Address
Sami Assaf, USC
Thinking in the box

Location: JFF Second Floor

2:30 – 3:00 Coffee

Talk Session II

Location: JFF 239

3:00 – 3:20 Catherine Pfaff, UC Santa Barbara
Geodesics in Outer Space

3:30 – 3:50 Priyanka Rajan, UC Riverside
Alexandrov Spaces with Integral Current Structure

4:00 – 4:20 Sherilyn Tamagawa, UC Santa Barbara
The Factorization Structure of 3-Manifolds

4:30 – 4:50 Kira Wyld, Harvey Mudd College
Sudoku on the torus

5:00 – 5:20 Anna Varvak, Soka University of America
We must explicitly teach how to read mathematics textbooks

Location: JFF 240

3:00 – 3:20 Ezgi Kantarci, USC
Quasisymmetric Schur Functions

3:30 – 3:50 Sian Fryer, UC Santa Barbara
Totally Nonnegative Matrices

4:00 – 4:20 Ilknur Egilmez, USC
Cylinder Modules for Current Algebra $U_{sl_2}[t]$

4:30 – 4:50 Tamara Gomez and Phoebe Coy, UC Santa Barbara
A Combinatorial Model of Skew Symmetric Quantum Matrices

Location: JFF 241

3:00 – 3:20 Melike Sirlanci, USC
Estimating Blood Alcohol Concentration / Breath Alcohol Concentration from Transdermal Alcohol Concentration Based On a Diffusion Equation with Random Coefficients

3:30 – 3:50 Marjorie Jones, Pepperdine University
A Discrete Stage-Structured Model of Newt Population Declines Due to Severe Drought

4:00 – 4:20 Courtney Davis, Pepperdine University
Using Mathematical Models to Predict the Effects of Manual Crayfish Removal on Newt Persistence

4:30 – 4:50 Kathryn Dover, Harvey Mudd College
Geometry of Machine Learning

5:00 – 5:20 Tatiana Tatarinova, USC
Deep learning approach to genome annotation

Location: JFF 316

3:00 – 3:20 Guher Camliyurt, USC
Unique Continuation Principle

3:30 – 3:50 Cynthia Flores, California State University, Channel Islands
Control and stability of the linearized dispersion-generalized BO equation on a periodic domain

4:00 – 4:20 Hyun-Jung Kim, USC
Time-homogeneous parabolic Wick-Anderson model in one space dimension: regularity of solution

4:30 – 4:50 Fanhui Xu, USC
On the rate of convergence of Strong Euler approximation

Location: JFF Ground Floor Lobby and Patio

5:00 – 6:00 Wine & Cheese

This WiMSoCal Symposium is supported by the USC David and Dana Dornsife College of Letters, Arts, and Sciences, Women in Science and Engineering (WISE) at USC and NSF CAREER award # 53-4855-1000. It is held in cooperation with the Association for Women in Mathematics and Charlotte's Web at USC.