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.