WiMSoCal 2020

March 7 − 8, 2020
University of California, Irvine
Schedule

Saturday, March 7

Location: Emerald Bay AB, UCI Student Center
8:15 − 8:45
Breakfast

Location: Emerald Bay AB, UCI Student Center
8:45am − 9:00am
Welcome by the organizers

Parallel Talks Session I
9:00am − 11:00am

Location: Crescent Bay A, UCI Student Center

9:00 − 9:25
Melike Sirlanci, California Institute of Technology
Controlling Blood Glucose Levels of Intensive Care Unit Patients

9:30 − 9:55
Anita Penkova, University of Southern California
Mathematical model and experimentation for measuring the diffusion coefficient of intravitreally injected drugs in ex vivo and in vivo study

10:00 − 10:25
Kimberly Ayers, Carroll College
Stabilization of Quasi-Periodic Orbits of the Random Logistic Map

10:30 − 10:55
Hossien Erjaee, University of California, Irvine
Complexity and its Applications

Location: Crescent Bay B, UCI Student Center

9:00 − 9:25
Sharon Lanaghan and Kristen Stagg, CSU Dominguez Hills
Redesigning Calculus I with Standards Based Grading and Active Learning

9:30 − 9:55
Nicole Fider, University of Arizona
A tale of Tic-Tac-Toe: the day my students played

10:00 − 10:25
Felicia Tabing, University of Southern California
Combining Synesthesia, Mathematics, and Art

10:30 − 10:55
Alessandra Pantano, University of California, Irvine

Building college and STEM pathways for underserved youth by leveraging the mentoring power of undergraduate and graduate students

Location: Crescent Bay C, UCI Student Center

9:00 − 9:25
Yesim Demiroglu, Harvey Mudd College
Applications of Cayley Digraphs to Waring's Problem and Sum-Product Formulas

9:30 − 9:55
Shanna Dobson, California State University, Los Angeles
Higher Categorical Traces on Crys(X)

10:00 − 10:25
Sonali Vyas, California State University, Fullerton
Murder Mysteries and Machine Learning

10:30 − 10:55
Anna Ma, University of California, Irvine
Randomized Kaczmarz for Tensors

Location: Crescent Bay D, UCI Student Center

9:00 − 9:25
Tiffany Jones, University of Arizona
Analysis of a Novel Helmholtz Approximation Method over Micro and Macro Regions

9:30 − 9:55
Zhanerke Temirgaliyeva, University of Southern California
Global regularity and long-time behavior of the solutions to the modified 3D Boussinesq equations

10:00 − 10:25
Chunmei Wang, Texas Tech University
Primal-Dual Weak Galerkin Finite Element Methods for First-Order Transport Problems

10:30 − 11:55
Mahnaz Moradi Nargesi, Cal Poly Pomona
Convolution Properties of Classes of Analytic and Meromorphic Functions

Location: Emerald Bay AB, UCI Student Center
11:00am − 11:30am
Coffee

Location: Emerald Bay AB, UCI Student Center
11:30am − 12:30pm
Keynote Speaker 1
Erica Graham, Bryn Mawr College
Uncovering reproductive phenotypes: mechanistic reduction and comprehensive model evaluation

Location: Emerald Bay AB, UCI Student Center
12:30pm – 1:30pm
Lunch

Location: Emerald Bay AB, UCI Student Center
1:30pm – 2:30pm
Keynote Speaker 2
Aisha Najerá, RAND Corporation
With an eye towards public policy research through a mathematician's lens

Location: Emerald Bay AB, UCI Student Center
2:30pm – 2:45pm
Coffee

Location: Emerald Bay AB, UCI Student Center
2:45pm – 4:00pm
Breakout groups

Location: Crystal Cove State Park beach
4:00pm – 6:00pm
Walk on the beach
A bus will depart from the front of the student center, by Pereira Dr, at 4:00 pm, and will bring people to the Crystal Cove State Park beach. The same bus will take people back to campus (to the dinner location). Everybody is encouraged to ride the bus to avoid having to pay $15 at the entrance of the park. Should you choose to drive to the beach, plan to meet the rest of the conference participants at Beachcomber Cafe on 15 Crystal Cove, Newport Coast, CA 92657.

Location: Yosemite Room, Department of Continuing Education
6:15pm – 7:45pm
Dinner

Location: McDonnell Douglas Auditorium
8:00pm – 10:00pm
Dessert and wine reception, and screening of *"Secrets of the Surface, the mathematical vision of Maryam Mirzakhani"* with documentary creator George Csicsery.
Introduction by Prof. Wolfson (UCI).

Sunday, March 8

Location: Woods Cove A, UCI Student Center
7:30am – 8:30am
Mindfulness/Fulfillment/Meditation session

Location: Pacific Ballroom AB, UCI Student Center
8:15am – 9:00am
Continental breakfast

Parallel Talks Session II
9:00am − 11:00am

    Location: Crescent Bay A, UCI Student Center

        9:00 − 9:25
           Kelly Isham, University of California, Irvine
           On the number of subrings of prime power index in $\mathbb{Z}^n$
        9:30 − 9:55
           Zhanar Berikkyzy, University of California, Riverside
           Anti-van der Waerden numbers of graphs
        10:00 − 10:25
           Yujia Ding, Claremont Graduate University
           Accelerometer-Based Gait Segmentation: Simultaneously User and Adversary Identification
        10:30 − 10:55
           Junyuan Joanne Lin, Loyola Marymount University
           Algebraic Multigrid for Least Squares Problems on Graphs with Applications to Recommender System

    Location: Crescent Bay B, UCI Student Center

        9:00 − 9:25
           Kat Dover, University of California, Irvine
           Deconstructing Clustering Algorithms for High Dimensional Data
        9:30 − 9:55
           Lernik Asserian, University of Southern California
           Nonparametric Probability Distribution Estimation in the Prohorov Metric Framework and its Application to the Alcohol Problem
        10:00 − 10:25
           Maria Allayioti, University of Southern California
           M-estimation in a diffusion model with application to biosensor transdermal blood alcohol monitoring
        10:30 − 10:55
           Lora Weiss, University of California, Irvine
           Mathematical Modeling of Cancer Stem Cell Enrichment

Location: Pacific Ballroom AB, UCI Student Center
11:00am − 11:30am
Coffee

Location: Pacific Ballroom AB, UCI Student Center
11:30am − 12:30pm
Ranthony A.C. Edmonds, The Ohio State University
Let's Break it Down: Mathematical Atoms in Commutative Rings

Location: Emerald Bay AB, UCI Student Center
12:30pm

Wrap-up. Box lunches will be served.