

SUNMARC 2018 – PROGRAM

Note: All joint events are in SMLC Atrium or Auditorium. All parallel sessions are in the indicated rooms.

FRIDAY

5:30-6:30pm	Registration and Dinner - in Atrium
6:30pm	Welcoming remarks - in Auditorium
6:40-7:40pm	DEBORAH SULSKY (UNM). <i>What's the Point of the Material-Point Method?</i>
7:40-9:00pm	Moderators meeting. Faculty meeting. Games.

SATURDAY

	DSH 325	DSH 327	DSH 329
8:30-8:53am	Ryan Kelly (NAU) <i>Simulation and Investigation of N-body Systems</i>	David Hurowitz (UA) <i>The ABCs You Were Never Taught In School: The ABC Conjecture</i>	Joshua de Jong (CSU) <i>Labeled Adjacency Matrices</i>
8:53-9:16am	Samantha Brozak (ASU) <i>Modeling Nutrient-Plankton Reactions in Oceanic Chain Vortices</i>	Marcela Gutierrez (NAU) <i>An Infinite Tree of Primitive Pythagorean Quadruples, Part I</i>	Ryan Wood (NAU) <i>On Matrices Generated by Higher Order Reciprocity Symbols</i>
9:16-9:39am	Bibiana Seng (UNM) <i>Application of Statistical Clustering to Characterize Ocean Sites for Wave Energy Converter Placement</i>	Viola McCarty (NAU) <i>An Infinite Tree of Primitive Pythagorean Quadruples, Part II</i>	Luis Diaz (NAU) <i>Biased Graphs, Matroids, and Multi-net Structures</i>
10-minute break			
9:50-10:13am	Javier Urcuyo (ASU) <i>Data-driven model for mosquito population dynamics and the spread of Zika virus using environmental inputs</i>	Kody Gelvin (NAU) <i>Comparing function estimation techniques using data from an oxidative stress experiment Part 1</i>	Kaitlyn Lee (NAU) <i>New Complex Hadamard Matrix Constructions Part I</i>
10:13-10:36am	Alyssa Lyn Fortier (UA) <i>Its a Small World After All: Epidemics and Immunization on Euclidean-Distance-Preferred Small-World Networks</i>	Jaxon Quillen (NAU) <i>Comparing function estimation techniques using data from an oxidative stress experiment Part 2</i>	Mason Sargent (NAU) <i>New Complex Hadamard Matrix Constructions, Part 2</i>
Walk to SMLC			
11:00-12:00pm	CHRISTOPH BORGERS (Tufts). <i>Why instant runoff voting is almost as undemocratic as plurality voting, and what we might do instead</i>		
12:00-1:30pm	Lunch. Walk to DSH		

1:30-1:53pm	Tene Carter (UA) <i>Finding Model Parameters from Noisy Data</i>	Alyssa Burgueno (ASU) <i>p-adic Numbers with an Emphasis on q-Volkenborn Integration and its Applications to Quantum Physics</i>	Matthew Daunt (NAU) <i>The Othello Distribution</i>
1:53-2:16pm	Gabriella Dalton (UNM) <i>Methods of Estimating Methane Emissions at Albuquerque's Former Los Angeles Landfill</i>	Justin Sima (NAU) <i>Prime Vertex Labelings for Perfect Ternary Trees, I</i>	Michael Rozinski (NAU) <i>Constructing a Multiplayer Rating System Part 1</i>
2:16-2:39pm	Andrew Hollis (UNM) <i>Clustering and Summarization for Large Document Sets</i>	Riley Waechter (NAU) <i>Prime Vertex Labelings for Perfect Ternary Trees, II</i>	Jordan Wright (NAU) <i>Constructing a Multiplayer Rating System, Part II</i>
Walk to SMLC			
3:10-4:10pm	ALEJANDRO ACEVES (SMU) and GABRIEL HUERTA (SNL). <i>Opportunities in Mathematics and Statistics.</i>		
4:15-5:15pm	Graduate Student/Postdoc Panel.		
5:20pm	Shuttle to Indian Pueblo Cultural Center. Dinner.		

SUNDAY

	DSH 325	DSH 327	DSH 329
8:30-8:53am	Ari Rappaport (UNM) <i>Exploration of Black Box Multigrid for Linear Systems Modeling Resistive MHD</i>	Kaitlynn Trimble (ASU) <i>An Application of Geometric Series: Annuities</i>	Emalina Bidari and Brandon Samz (NAU) <i>Structure of braid graphs for reduced words in Coxeter groups of types A and B</i>
8:53-9:16am	Ethan Coldren (CSU) <i>A Quadratic-time Algorithm for Persistent Homology in the Number of Points on a Circle</i>	Sai Sandilya Babbepalli Venkata (ASU) <i>Applications of Calc 2 to ping pong</i>	Sean Willmot (CSU) <i>On Vietoris-Rips Complexes of Planar Curves</i>
9:16-9:39am	William van Noordt (CSU) <i>Mesh-Morphing on a Rectangular Domain via an Iterative Gradient-Ascent Algorithm</i>	Robert Hollenback (ASU). Talk given by Carla Van de Sande. <i>"Pi" Equivalence for a Triangle</i>	Jadyn Breland (NAU) <i>Braid Arrangements and Pointed Multinet Structures, Part I</i>
9:39-10:02am		Laney Bowden (CSU) <i>The Least Symmetric Triangle</i>	Jordan Wright (NAU) <i>Braid Arrangements and Pointed Multinet Structures, Part II</i>
Walk to SMLC			
10:30-11:30am	KEN MCLAUGHLIN (CSU). <i>Mad Limits at the Edge of Reason.</i>		
11:30-12:30pm	Lunch and Departure		