

AWIMS Schedule

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|-------------|---|--------------------------------------|---------------------------|
| 8:00-8:30 | Registration and Light Refreshments | HL | |
| 8:30-8:40 | Opening Remarks | HL 116 | L. Capogna |
| 8:40-9:40 | Plenary Talk: <i>“The Case for T-Product Tensor Decompositions: Compression, Analysis and Reconstruction of Image Data”</i> | HL 116 | M. Kilmer |
| 9:40-10:40 | Contributed Talks A Contributed Talks B Contributed Talks C | HL 114 HL 154 HL 116 | |
| 10:40-11:00 | Coffee Break | HL | |
| 11:00-11:50 | Tutorial 1 Tutorial 2 | HL 116 HL 218 | E. Soljanin K. Lindsey |
| 12:00-1:00 | Lunch break | HH | |
| 1:00-2:00 | Plenary Talk: <i>“Nonlinear Wave Phenomena: the Ubiquitous Dispersive Equations”</i> | HL 116 | G. Staffilani |
| 2:00-2:50 | Tutorial 3 Tutorial 4 | HL 116 HL 218 | A. Arnold G. Spencer |
| 2-50-3:30 | Poster Session and Coffee Break | HL | |
| 3:30-4:10 | Contributed Talks D Contributed Talks E Contributed Talks F Contributed Talks G | HL 218 HL 114 HL 154 HL 202 | |
| 4:10-4:40 | Invited Talk: <i>“Career Benefits to Engagement in Professional Societies”</i> | HL 116 | C. Roberts |
| 4:40-5:40 | Panel: Women in Academia and Industry M. Kilmer, L. Ness, S. Olson, G. Staffilani, C. Topaz, L. Venkataramanan, S. Weekes | HL 116 | |
| 5:40 - 5:45 | Closing Remarks | HL 116 | |

HL = Higgins Laboratories

HH = Higgins House

Contributed Talks Schedule

Contributed Talks A

9:40 - 10:40 HL 114

Chair: Xiaodan Zhou

9:40 - 9: 55 Taryn Flock, University of Massachusetts Amherst
Title: The Nonlinear Brascamp-Lieb Inequality for Simple Data

10:00 - 10:15 Patricia Garmirian, Tufts University
Title: Sub-Diffusive Processes in Hilbert Space and their Associated Stochastic Differential Equations

10:20 - 10:35 Xueying Yu, University of Massachusetts Amherst
Title: Global Well-Posedness and Scattering for the Quintic NLS in Two Dimensions

Contributed Talks B

9:40 - 10:40 HL 154

Chair: Andrea Arnold

9:40 - 9: 55 Stephanie Dodson, Brown University
Title: Stability of Spiral Waves in Models of Cardiac Tissue

10:00 - 10:15 Sha Cao, Indiana University
Title: Development of a Deconvolution Algorithm for Digital Dissection of Tissue-Based Gene-Expression Data

10:20 - 10:35 Melissa McGuirl, Brown University
Title: A Topological Analysis of Model Sensitivity and Classification for Pattern Formation on Zebrafish

Contributed Talks C

9:40 - 10:40 HL 116

Chair: F. Patricia Medina

9:40 - 9: 55 Laurie Tupper, Williams College
Title: Changes in the Wind: Similarity and Clustering for Spatial Time Series Data

10:00 - 10:15 Anna Konstorum, Center for Quantitative Medicine, UConn Health
Title: Comparative Analysis of Dimension Reduction Techniques on Mass Cytometry Data

10:20 - 10:35 F. Patricia Medina, WPI
Title: Deep Learning in 3D LIDAR Point Cloud Data

Contributed Talks D

3:30 - 4:10 HL 218

Chair: Elisa Negrini

3:30 - 3:45 Minghao Rostami, Syracuse University

Title: Fast Algorithms for the Dense Matrices Arising from the Method of Regularized Stokeslets

3:50 - 4:05 Lina Ma, Trinity College

Title: Coarse Graining Langevin Dynamics

Contributed Talks E

3:30 - 4:10 HL 114

Chair: Lucia Carichino

3:30 - 3:45 Kaitlyn Hood, MIT

Title: A Hairy Situation: Modeling Fluid Flow Around Rigid Cylinders

3:50 - 4:05 Mario Bencomo, ICERM

Title: Discretization of Multiple Sources in a Finite Difference Setting for Wave Propagation Problems

Contributed Talks F

3:30 - 4:10 HL 154

Chair: Stephan Sturm

3:30 - 3:45 Alisa Knizel, Columbia University

Title: Continuous-Space Tasep in Inhomogeneous Environment

3:50 - 4:05 Weijie Pang, WPI

Title: Sensitivity of the Eisenberg-Noe Clearing Vector to Individual Interbank Liabilities

Contributed Talks G

3:30 - 4:10 HL 202

Chair: Min Wu

3:30 - 3:45 Wenjing Li, WPI

Title: Large Scale Ensemble Learning

3:50 - 4:05 Wei Dai, WPI

Title: Improving Public Security Based on WI-Fi Signal