

PUMA: Practicum for Undergraduate MATHematicians in Inverse Problems and Data Assimilation

Saturday November 23, 2024

- 8:00–8:50 *Check-in/Breakfast (hosted by IPAM)*
- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00–10:00 **Anna Ma** (University of California, Irvine (UCI))
Randomized Iterative Methods for Large-Scale Data
- 10:00–11:00 **Malena Espanol** (Arizona State University)
Tutorial Lecture: Intro to Inverse Problems: The Image Deblurring Problem (Part 2)
- 11:00–12:00 *Problem Session*
- 12:00–1:00 *Lunch (hosted by IPAM)*
- 1:00–2:00 **Malena Espanol** (Arizona State University)
Tutorial Lecture: Intro to Inverse Problems: The Image Deblurring Problem (Part 2)
- 2:00–3:00 *Problem Session*
- 3:00–3:30 *Break*
- 3:30–4:30 **Heather Zinn Brooks** (Harvey Mudd College)
Learning interaction kernels in opinion dynamics on networks
- 4:30–5:30 *Professional development session #1*

Sunday November 24, 2024

- 8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*
- 9:00–10:00 **Oscar Leong** (University of California, Los Angeles (UCLA))
Generative networks for inverse problems without ground-truth data
- 10:00–11:00 **Ricardo Baptista** (California Institute of Technology)
Tutorial Lecture: Data Assimilation Problems: Inverse Problems with time
- 11:00–12:00 *Problem Session*
- 12:00–1:00 *Lunch (hosted by IPAM)*
- 1:00–2:00 **Elisa Negrini** (University of California, Los Angeles (UCLA))
System Identification with Regularized Neural Networks
- 2:00–3:00 *Professional development session #2*



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