

Fri November 17

CANSSI Showcase 2023

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Short Talks Speakers

Antonio Herrera Martin



Antonio Herrera Martin is a postdoctoral fellow at the University of Toronto. He is involved in the Astrostatistics group as part of a CANSSI Collaborative Research Team, as well as a member of CHIME (Canadian Hydrogen Intensity Mapping Experiment), which is involved in the study of FRBs (Fast Radio Bursts).

His primary research interest is in the study of data analysis methods for astrophysical data. Throughout his career, Antonio has researched a wide range of topics in physics and astronomy including from the evolution of the universe, Dark Matter in gravitational lensing, inference of parameters for gravitational waves, and the search of extrasolar planets using microlensing data. He received his PhD in Physics and Astronomy from the University of Glasgow. Outside of work he enjoys practicing pixel art and dancing.

Benjamin Bloem-Reddy

Ben Bloem-Reddy is Assistant Professor of Statistics at the University of British Columbia. He works on problems in statistics and machine learning, with an emphasis on probabilistic approaches. Most of his ongoing work is motivated by some form of scientific knowledge acquisition, and the interrelated roles of models, experiments, data, inference, and prediction. Some recent examples include: Uses and benefits of symmetry; statistical hypothesis tests for symmetry; causal inference and discovery. Prior to UBC, Ben completed his PhD at Columbia University and held a postdoctoral position at the University of Oxford. Ben is a proud father of two children, and he enjoys hiking, running, gardening, and generally being outdoors as much as possible.



Gracia Dong



Gracia is a CANSSI-funded postdoctoral fellow, through the CDPF program, at the University of Victoria and the University of Toronto under the supervision of Dr. Laura Cowen and Dr. Patrick Brown. Her current research focus is on estimating hidden and marginalized populations including the unhoused and those at risk of opioid addiction.

Gracia is also involved with the Centre for Global Health Research in Toronto, where she works on modelling the short-term health effects of environmental risk factors such as temperature and air pollution, and the Vancouver Island Health Authority in Victoria, where she works on identifying disparities and inequities in healthcare access.

She completed her graduate studies at the University of Waterloo, under the supervision of Dr. Christiane Lemieux, where her research was based on quasi-Monte Carlo (QMC) methods and computation statistics, with a focus on QMC for high-dimensional function estimation and error reduction for numerical integration.

Tianyu Guan

Tianyu Guan is an Assistant Professor at the Department of Mathematics and Statistics at Brock University. She had her PhD in Statistics from Simon Fraser University. Her research interests include Sports Analytics, Functional Data Analysis, and Machine Learning. She is currently a Principal Investigator of the CANSSI Collaborative Research Team in Sports Analytics. She has a passion for sports and her goal is to use sports data to help teams and players gain an edge.



