Canadian Statistical Sciences Institute
Institut canadien des sciences statistiques

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CANSSI Distinguished Postdoctoral Fellowships
2027 Project List

CANSSI Distinguished Postdoctoral Fellowship (CDPF) recipients have the opportunity to participate in a major research project. Below are the eligible projects for awards that begin in 2027.

1. Statistical Theory for Continuous-Time Reinforcement Learning (Bin Li, University of Waterloo & Xiaofei Shi, University of Toronto)
2. When Is Fairness Repair Possible? Inference and Statistical Limits (Peijun Sang, University of Waterloo & Linglong Kong, University of Alberta)
3. Causal and Statistical Methods for Reliable Evaluation of Large Language Models (Linbo Wang, University of Toronto & Dingke Tang, University of Ottawa)
4. Efficiency Improvements for Simulation-based Solutions to Optimal Control Problems with Financial Applications (Mark Reesor, Wilfrid Laurier University & Lars Stentoft, Western University)
5. Developing and Evaluating Methods for Assessing Treatment-Effect Heterogeneity in Cluster Randomized Trials (Monica Taljaard, Ottawa Hospital Research Institute and University of Ottawa & Philippe Boileau, McGill University)
6. Sample-Efficient Explainable AI for Model Auditing (Simone Brugiapaglia, Concordia University & Marouane Il Idrissi, Université du Québec à Montréal)
7. Integrating Statistical Inference and Machine Learning for Complex Data with Measurement Error and Missing Values (Hua Shen, University of Calgary & Grace Y. Yi, Western University)
8. Correlated Measurement Error and Personalized Treatment Decisions with an Application in Glaucoma Care (Michael Wallace, University of Waterloo & Wenqing He, Western University)
9. Enhancing Inferences on Risk Factors and Trends in Recurrent Emergency Department Visits for Opioid Poisoning via Statistical Learning (Rhonda J. Rosychuk, University of Alberta & Candemir Cigsar, Memorial University of Newfoundland)
10. Dynamic Risk Measure Discovery Via Operator Learning (Silvana Pesenti, University of Toronto & Anastasis Kratsios, McMaster University)

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CANSSI is hosted at Simon Fraser University. L'INCASS est hébergé à l'Université Simon Fraser.

11. Scalable Post-Selection Inference for Heterogeneous High-Throughput Data with Applications to Genetic Studies (Elif Acar, University of Guelph & Kaiqiong Zhao, York University)
12. Wildfire Mitigation via Functional Time Series Analysis (Adam B. Kashlak, University of Alberta & Mina Aminghafari University of Calgary)
13. Inattentive Optimal Stopping in Actuarial Finance (Anne MacKay, Université de Sherbrooke & Jean-François Renaud, Université du Québec à Montréal)
14. Enhancing Statistical Privacy through Measurement Error Models (Kelly Ramsay, York University & Dylan Spicker, University of New Brunswick)
15. Climate-Driven Dynamics of Canadian Mortality (Jean-François Bégin, Simon Fraser University & Mathieu Boudreault, Université du Québec à Montréal)
16. Data-Driven Analysis of Cyber Risk and Insurance (X. Sheldon Lin, University of Toronto & Edward Furman, York University)
17. Regression Models for Non-Gaussian Repeated Measures Data with Application in Ecology and Epidemiology (Alex Stringer, University of Waterloo & Ben Bolker, McMaster University)
18. Statistical Methods for Digitizing Analog Magnetic Field Records and Revealing 140 Years of Earth's Magnetic History (Wesley S. Burr, Trent University & Gwendolyn Eadie, University of Toronto)
19. Predictive Neural Network Modelling of Spatio-Temporal Point Process Data with Self-Excitation Behaviour, with Applications to Crime Data Modeling (Devan Becker, Wilfrid Laurier University & Owen Ward, Simon Fraser University)
20. Clustering and Classifying Partially Observed Objects in Images through Functional Shape Representations (Jiguo Cao, Simon Fraser University & Cédric Beaulac, Université du Québec à Montréal)