



CANSSI Distinguished Postdoctoral Fellows Projects List

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1. [Comprehensive risk modeling and trajectory prediction of Diabetic Retinopathy using big data](#)
2. [Comprehensive statistical modelling for radiobiological changes measured via Raman spectroscopy](#)
3. [Copula-based dependence modeling for climate data](#)
4. [Development of innovative Bayesian methods to address statistical challenges in longitudinal electronic health record data](#)
5. [Fine-scale and functional mapping of brain imaging genetics, and aging](#)
6. [High-dimensional copula modeling with an application to healthcare](#)
7. [High-dimensional hierarchical models for infectious disease data](#)
8. [Real-time multi-scale estimation and uncertainty quantification in infectious disease models](#)
9. [Semi-supervised learning for high-dimensional functional data integration with measurement error](#)
10. [Statistical foundations of invariant representation learning, with applications to data-driven compression and algorithm design](#)

CANSSI Ontario - CANSSI CDPF in Theoretical Statistics Projects

1. [Discovery of extremal structure for heavy-tailed multivariate time series](#)
2. [Probability Models in Nonstandard Spaces](#)