



Western
Science



science



Applications are invited for PhD study at Western University on the topic

Geometry and Statistics of Multivariate Risk Measures

under the supervision of [Ricardas Zitikis](#) (Western) and co-supervision of [Edward Furman](#) (York U)

PhD starting date: September 1, 2023

PhD Program: Statistics – Financial Modelling

Only Canadian Citizens and Permanent Residents will be considered

- The PhD study will be sponsored by the NSERC Alliance – Mitacs Accelerate grant under the title “New Order of Risk Management: Theory and Applications in the Era of Systemic Risk” in partnership with Aviva Canada, Canada Life, CANNEX Financial Exchanges, Sun Life Financial, and Wawanesa Insurance.

There will be plenty of opportunities to test theory in practice!

- Applicants are expected to have considerable training in subjects such as Calculus/Analysis, Mathematical Statistics, and Probability, and should also have great interest in methods of Machine Learning, Optimization, and Programming.

Aspiring Data Scientists are most welcome to apply!

A brief description of the PhD topic: Life is multifaceted, and thus numerous interdependent risks are measured and managed simultaneously. Research has shown that there are often “paths” in the resulting data distributions that are either mathematically exceptional or statistically significant, or both. Aided with relevant risk measures, we shall search for, and quantify, such paths and use them to assess and manage various risks, such as those arising in biological, engineering, financial, and social systems.

If interested, email to rzitikis@uwo.ca for further details