STA4528HS L0101 & L9101 – Dependence Modelling With Application to Risk Management

This course introduces the theory of modelling dependence in statistical/stochastic models, including copulas and factor models. Typically, data of joint (rare) events are scarce making dependence modelling highly challenging. In financial and insurance risk management, however rare events are prevalent, and misspecification in the dependence structure may greatly impact risk management decisions. This course provides, additional to copulas and factor models, an overview of financial risk management including risk measures and regulation, such as the Basel accords, with a focus on dependence modelling. It further covers risk assessment and risk management under dependence uncertainty.

Qualifications
Academic background in Statistical Sciences. PhD student (or graduate) in actuarial science, statistics or biostatistics.

Duties
Your duties will include any or all of the following: grading term tests, invigilating term tests and final exams, grading homework and/or quizzes, setting tutorial quizzes.

Instructor: Silvana Pesenti

Estimated Course Enrolment: 30

Meeting Schedule:
Lectures: Tuesdays, 3pm-6pm;
Tutorials: N/A

Approximate Number of TA Hours: 20 hours (per position)

Approximate Number of Positions: 1

Rate of Pay: UG/SGS I/II - $46.24/hour (+4% vacation pay)

Final availability of the position(s) is contingent upon enrolment, budgetary consideration and the determination of appointments as governed by the collective agreement.

Application Process
Application information is available at https://www.statistics.utoronto.ca/employment-opportunities/cupe-positions-unit-1. The deadline to submit your application is November 27, 2020. For more information, you may contact:

Priya Sivathason
700 University Avenue, Room 9160-6
Toronto, Ontario, M5G 1X6
E-mail: job-apps@utstat.utoronto.ca

If during the application and/or selection process you require accommodation due to a disability, please contact job-apps@utstat.utoronto.ca.

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement. The Departmental Hiring Policy is available in the Department office and in the CUPE Local 3902 office. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas. Note: Although a graduate student’s preference as to the campus location of his/her TA appointment will be taken into account, both the initial TA appointment (or CI appointment) and the subsequent appointment obligation related to that appointment may be met through position(s) on any one of the three University of Toronto campuses (UTM, UTSC or St. George) in courses in the same discipline as the initial appointment. TAs will only be assigned to courses in fields in which they are or should be qualified to assist. Duties of this position shall be performed at the campus on which the position is located. Where the duties are intended to be performed at another location, such other location will be specified in the posting.