UNIVERSITY OF TORONTO SCARBOROUGH | ARTS & SCIENCE CO-OP

STATISTICS

ABOUT THE PROGRAM

There is a variety of program choices within the Statistics program at U of T Scarborough, allowing students to major in statistics or dig deeper into either the Machine Learning & Data Mining or Quantitative Finance streams.

The Statistics Co-op program at the University of Toronto Scarborough teaches students how to:

- Identify and collect or create appropriate data to solve a given statistical problem
- Process large quantities of data
- Adapt statistical methods and software applications to solve problems across multiple fields
- Identify, analyze, and interpret trends and relationships in data
- Present findings through graphs, charts, and tables
- Determine which statistical methods to apply to an organization's unique needs
- Communicate statistical ideas, methods, and results to technical and non-technical audiences
- Collaborate effectively and apply ethical practices in their professional work

Students in the Quantitative Finance stream learn how to:

- Adapt statistical methods and software applications to solve problems across multiple fields
- Identify, analyze, and interpret trends and relationships in data
- Understand the operation of financial markets and the uses of common financial instruments (fixed income, equity, derivatives)
- Apply models for pricing and hedging financial derivatives
- Apply financial econometric methods for assessing the risk and performance of investments

Students in the Machine Learning and Data Science stream learn how to:

- Apply statistical methods and software applications to solve problems across multiple fields
- Identify, analyze, and interpret trends and relationships in data
- Process large and complex data efficiently
- Adapt statistical and machine learning methods for addressing an organization's unique needs
- Develop effective and scalable code as part of a software engineering team

With potential applications across all industries including healthcare, technology, government, and business, our students arrive prepared to make sense of the world's never-ending stream of data.

SAMPLE JOB TITLES

Software Engineer
Junior Associate
Risk Analyst
Data Analyst

STUDENT PROFILE

JAY WANG

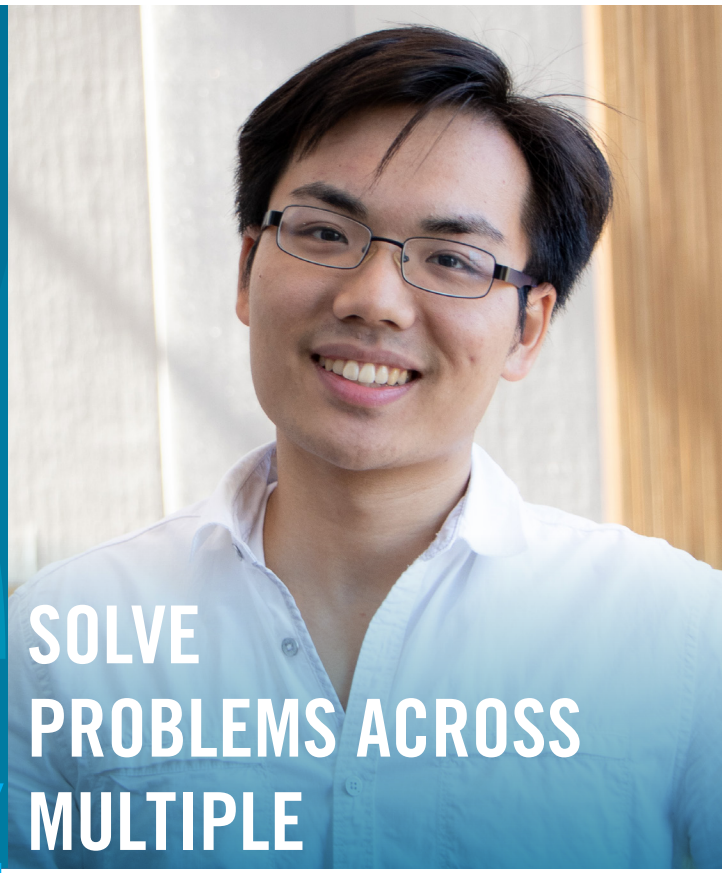
"As a risk analyst, I was heavily involved in portfolio back-testing and CAD-quoted stock modeling, which involved heavy quantitative analysis and was largely research-based."

COMPUTER SCIENCE / MATHEMATICS / STATISTICS

PROFILE : JAY WANG

Reflecting back on his 12-month work term in risk and data analysis with TD, Jay credits the hard skills developed through the Quantitative Finance stream of the Statistics program along with communication and leadership skills developed through extracurricular activities as keys to his success:

"As a data analyst, I worked on a data visualization project with Tableau, which —although quite technical— also required effective communication with clients as well. My work terms were extended twice because I was a strong team player who had developed strong relationships with my colleagues and had brought positive energy to the team."



"SOLVE PROBLEMS ACROSS MULTIPLE FIELDS."

CO-OP IN ACTION

"I feel very lucky to have learned about, connected with and received tremendous support from the co-op office – everyone I have had the pleasure to work with there has provided us with a very high degree of professionalism and has helped to make the student hiring process straightforward and even fun. I particularly appreciated the innovation and leadership demonstrated by the co-op office as we partnered with U of T Scarborough to create Rouge National Urban Park's first-ever mobile technology app - a project that was led and implemented by six students all hired and supported through the co-op program." – OMAR M, PARKS CANADA

PROGRAM:
Statistics,
Quantitative Finance Stream

Your next big hire is from the University of Toronto Scarborough Arts & Science Co-op program.

Tap into our full-support team to hire in as few as 10 business days: uoft.me/hirestudents

STATISTICS