

Jonathan Mostovoy

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Education

University of Toronto

Toronto, Canada

M.Sc. IN MATHEMATICS

Sep. 2017 - Apr. 2018

- Received provisional acceptance into Ph.D program.
- *Relevant Graduate Level Coursework:* Real Analysis I & II, Partial Differential Equations I & II, Probability I & II, Analytic Number Theory, General Relativity, and Combinatorial Theory.

University of Toronto

Toronto, Canada

HONOURS B.Sc. IN MATHEMATICS, ECONOMICS, FINANCE & STATISTICS: 3.6 CGPA

Sep. 2015 - Apr. 2017

- Completed Undergraduate degree at 18 years old, and wrote numerous academic resources.
- *Relevant Graduate Level Coursework:* Mathematical Finance, Complex Analysis, Stochastic Processes, Financial Econometrics, Financial Market Microstructure, and Time Series Analysis.
- *Relevant Undergraduate Level Coursework:* Real & Complex Analysis, Nonlinear Optimization, Single & Multi-Variate Calculus, Linear Algebra, Ordinary & Partial Differential Equations, Number Theory, Combinatorics, Probability, General Statistics, Regression Analysis, Microeconomics, Macroeconomics, Econometrics, and Game Theory.

Hebrew University of Jerusalem

Jerusalem, Israel

RESEARCHER

Jun. 2015 - Aug. 2015

- Conducted game theoretic and economic research under the advisement of Professor Eyal Winter. Modelled the negotiations before, and plausible consequences of the JCPOA (Iranian Nuclear Deal).
- Worked with an international team of undergraduate students on a theoretical Behavioural Game Theory paper on Risk Aversion.
- *Seminars in:* Finance, Auction & Game Theory, Econometrics, Political Economy, Behavioural Economics, and Micro/Macroeconomics.

Professional and Work Experience

University of Toronto

Toronto, Canada

TEACHING ASSISTANT

May. 2017 - Apr. 2018

- Led University of Toronto's Math Aid Centre. Courses presently TAing: 3rd year Complex Variables and 2nd year Linear Algebra.
- Taught tutorials, held office hours, and evaluated assignments & tests.

Machine Learning and Neural Networks

Toronto, Canada

CONSULTANT

Apr. 2017 - Oct. 2017

- Designed and implemented machine vision and neural networks algorithms for diagnosing breast cancer and cryptocurrency trading.
- Applied big data strategies to optimize computation on data sets, such as 250,000 medical images and cryptocurrency signals.
- Built a custom server with an architecture specifically designed for running intensive deep learning.

Social Media Spike

Toronto, Canada

FOUNDER

Jul. 2012 - Nov. 2015

- Founded a successful venture that helped small businesses enhance their online presence.
- Managed a team of subcontractors and developed innovative marketing strategies.

Leadership and Extracurricular Experience

Derivatives, Fixed Income Pricing & Credit Risk, and High Frequency Trading

Toronto & Victoria, Canada

RESEARCHER

Sep. 2016 - May. 2017

- Conducted joint and independent applied projects on the stochastic properties of the Volatility Index, the accuracy of models for Canadian Fixed Income securities, and analyzing evidence for asymmetric information from millisecond intraday (tick) trading data.

Debate Club, Model United Nations Club, and Conferences

Toronto & Victoria, Canada

HEAD, DIRECTOR, AND SECRETARY GENERAL

Sep. 2013 - Jan. 2016

- Created and taught workshops to assist and motivate members with their debating, lobbying, teamwork, and consensus building skills.
- Planned and led the following types of committees/conferences: UN General Assembly, Canadian House of Commons, and Commonwealth Heads of Government Meetings.

Honours and Awards

2017 University of Toronto's Mathematics Department: Full Graduate Scholarship

Toronto, Canada

2016 Zac Kaye Leadership Fund Scholarship, Ted Mossman Scholarship

Toronto, Canada

2015 World Science Conference - Israel: Canadian Delegate, Persiko and Darren Kendal Merit

Toronto & Victoria, Canada

Scholarship, Thomas A. Russell Scholarship, Hilda Clara Hiltz Residence Award, Harry Farrar Loudon House Bursary, AP Scholar with Distinction, National AP Scholar, Timmis Scholar Award, Awards for Exemplary Performance at Debate Conferences

Technical Proficiencies

FLUENT: MATLAB, R, \LaTeX , MS Office

PROFICIENT: Python, Stata, FactSet, WRDS, HTML

FAMILIAR: VBA, SQL, C++

Interests

Discrete Mathematics, Financial Markets, Opera, Jazz, Travel, Baseball, Alpine & Backcountry Skiing, Sailing, Tennis, Golf, Hiking, Art, and History.