

Jonathan Mostovoy: Curriculum Vitae

Biographical Information

Born: May 2, 1998 – Toronto, Canada

Nationality/Citizenship: Canadian

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Current

Incoming M.Sc. Student; *Mathematics Departments*; The University of Toronto.

Areas of Interest

Game Theory • Stochastic Calculus & Probability • Mathematical Finance • Number Theory • Mathematical Physics • Combinatorics & Discrete Mathematics

Education

2018 M.Sc.; *Mathematics*; The University of Toronto.

2017 B.Sc.; *Mathematics, Economics, Statistics & Finance*; The University of Toronto.

2015 RESEARCH; *Game Theory & Economics*; The Hebrew University of Jerusalem.

Grants, Honours and Awards

2017 University of Toronto's Mathematics Department Graduate Internal Scholarship

2016 Ted Mossman Scholarship

2016 Zac Kaye Leadership Fund Scholarship

2015 Bernard Persiko and Darren Kendal Merit Scholarship

2015 Thomas A. Russell Scholarship

2015 Hilda Clara Hiltz Residence Award

2015 Harry Farrar Loudon House Bursary

2015 World Science Conference - Israel: Canadian Delegate

2015 AP Scholar with Distinction

2015 Timmis Scholar Award

2015 National AP Scholar

Research, Graduate Level Projects and Sample Work

ORIGINAL RESEARCH:

2015 A Game Theoretic Approach to Nuclear Negotiations: http://mathfin.ca/docs/Game_Theory.pdf

TEXTBOOKS (WORKING):

2017a Mathematical Finance: http://mathfin.ca/docs/Math_Finance.pdf

2017b Stochastic Processes: <http://mathfin.ca/docs/Stochastic.pdf>

GRADUATE LEVEL COURSE PROJECTS:

2016a Financial Econometrics: Time Series Analysis of the VIX: <http://mathfin.ca/docs/VIX.pdf>

2016b Financial Market Microstructure Project - Referee Report: <https://goo.gl/Q109Bo>

2016c High Frequency Trading Literature Review: <https://goo.gl/xFBxK5>

OTHER SAMPLE WORK:

2017a Complex Analysis: http://mathfin.ca/docs/Complex_Analysis.pdf

2017b Nonlinear Optimization: <http://mathfin.ca/docs/Optimization.pdf>

2017c (Mostly Functional) Analysis: <http://mathfin.ca/docs/Analysis.pdf>

2017d Time Series Analysis: http://mathfin.ca/docs/Time_Series.pdf

2016a Non-measure-theoretic Probability: <http://mathfin.ca/docs/Probability.pdf>

2016b Introductory Real Analysis: http://mathfin.ca/docs/Real_Analysis.pdf

University of Toronto Coursework

UNDERGRADUATE LEVEL:

Mathematics: Real & Complex Analysis, Nonlinear Optimization, Single & Multivariate Calculus, Linear Algebra, Ordinary & Partial Differential Equations, Number Theory, and Combinatorics.

Statistics: Probability, General Statistics, and Regression Analysis.

Economics: Microeconomics, Macroeconomics, Econometrics, and Game Theory.

Other: Chemistry, European History, Political Science, Philosophy, Hebrew, and Jewish Studies.

GRADUATE LEVEL:

Mathematics: Complex Analysis, and Mathematical Finance.

Statistics: Time Series Analysis, and Stochastic Processes.

Economics: Financial Econometrics, and Financial Market Microstructure.

Hebrew University Coursework

GRADUATE LEVEL:

Mathematics: Game Theory.

Economics: Econometrics, Auction Theory, Political Economy, Behavioural Economics, Macroeconomics, and Microeconomics.

Time line (Age Explanation)

- 2015-2017 A heavy course load and a summer semester allowed for the completion of my four year B.Sc. degree in two academic years. I successfully finished all my undergraduate coursework, and received admission to the M.Sc. in Mathematics Program (Ph.D stream) whilst still 18 years of age.
- 2015-2015 Summer study semester at Hebrew University of Jerusalem.
- 2012-2015 Accelerated high school study: completed full program in 3 years.
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Additional Notes

Please refer to my [Professional CV](http://mathfin.ca/docs/JM_PCV.pdf): http://mathfin.ca/docs/JM_PCV.pdf for further achievements, work and interests outside of academia. Please refer to my [Transcript](#) for a complete list of courses taken with their respective course codes.

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Professional CV http://mathfin.ca/docs/JM_PCV.pdf