

LISA EVEREST
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EDUCATION

Massachusetts Institute of Technology <i>B.Sc. in Mathematics with Computer Science and B.Sc. in Management</i> GPA: 5.0/5.0	2015 – 2019
Princeton University • MAT215 Honors Single Variable Analysis (B+), concurrent with high school	2014 – 2015
The Lawrenceville School in Lawrenceville, NJ GPA: 4.02/4.0 <i>Cum Laude Society</i>	2011 – 2015

TEACHING EXPERIENCE

MIT Math Undergraduate Teaching Assistant <i>Mathematics for Computer Science (6.042)</i>	Fall 2018
MIT Math Tutor <i>Math Learning Center</i>	Fall 2016, Fall 2017
MIT High School Teacher in Math and Computer Science <i>Global Teaching Lab in Milan, Italy</i>	January 2017
MIT Physics Teaching Assistant and Grader <i>Physics I (8.011, TA and Grader), Physics I (8.012, Grader)</i>	Spring 2016, Fall 2016
MIT Computer Science Mentor <i>SWE #HelloWorld Middle-School Girls' Program</i>	Fall 2015

RESEARCH EXPERIENCE

Securities Extern at NERA Economic Consulting (New York, NY) • <u>White paper</u> : Explored cryptocurrencies, valuation methodologies and techniques, and their uses in a technical paper • <u>Contributions to cases</u> : Performed valuation of companies using DCF's	January 2018
Undergraduate Researcher at Imperial College of London Data Science Institute <i>Advisor: Professor Yves-Alexandre de Montjoye</i> • <u>Big data techniques</u> : Conducted analysis of anonymization and pseudonymization techniques for big data, such as salted hashing and k-anonymity • <u>Course design</u> : developed an effective course for business clients on these anonymization techniques	Summer 2017

PROFESSIONAL EXPERIENCE

Goldman Sachs (New York, NY) <i>Quantitative Analyst, Special Situations Group (Asset Management Division)</i> • <u>Portfolio management</u> : Analyses and pricing of various aspects of business portfolio, including FX exposure, public equity risk, and senior management reports of the entire business • <u>Deal modeling</u> : Extended knowledge beyond training to design creative solutions for obscure model failures • <u>Database uplift and support</u> : Developed strategic pipeline in Sybase database for automated business income statement • <u>Backend developer and product manager</u> : Pipe millions of companies' data into a MongoDB, join datasets based on key identifiers in Python, and aggregate data for display on UI; also handling PM work to integrate three teams globally – business, UX, and engineering – and present biweekly milestones to senior business leadership	March 2020 – Present
<i>Technology Analyst, Investment Banking Division</i> • <u>Frontend development</u> : Implemented UI features on a platform helping clients analyze and hedge their interest rate risk.	July 2019 – March 2020
<i>Technology Intern, Investment Banking Division</i> • <u>Model back-testing</u> : Tested implied VaR/Vol models against historical values with IBD Corporate Derivatives Strats.	Summer 2018
McDonald's (Columbus, OH) <i>Crew Member</i>	Summer 2015

RELEVANT COURSEWORK AND SKILLS

- **Mathematics**: Probability, Statistics, Real Analysis, Differential Equations, Linear Algebra, Discrete Math Seminar
- **Computer Science**: Algorithms, Machine Learning, Optimization Methods, Computability/Complexity Theory
- **Finance/Economics**: Financial Engineering, Financial Markets in the Macroeconomy, Managerial Finance, Accounting
- **Skills**: Python, R, Julia, Java, Javascript, SQL, HTML, MongoDB (basic), ExcelSolver/OpenSolver (basic)

PROJECTS

Generalizing Real-Rooted Polynomials to Real Stable Polynomials

Spring 2019

- Explored relationship of real-rooted and real stable polynomials and proved specific properties
- Applied real stable polynomials to prove the existence of an infinite sequence of a particular set of Ramanujan graphs

Optimization of Management Degree and Predicting 6.046 Course Enrollment

Spring 2019

- Linear Programming: Developed two optimization models, one with objective function to maximize utility and one to minimize number of semesters needed; linear program ran in Julia and a sensitivity analysis was performed
- Autoregressive models: Utilized in R with different lags and significant features to predict algorithms course enrollment

A Comparison of the Black-Scholes Model and Monte-Carlo Model for Options Pricing

Fall 2017

- Solved the Black-Scholes equation to derive the Black-Scholes Formula and proved Monte-Carlo simulation methods for options pricing
- Compared Black-Scholes with Monte-Carlo simulations on accuracy and efficiency

Optimization of MIT Varsity Softball Batting Order

Spring 2017

- Modeled softball game as a graph using historical data to make assumptions about states and transitions
- Determined optimal order with sensitivity analyses through game simulation and theoretical expected value of model

HONORS AND AWARDS

- Goldman Sachs Analyst/Associate Professional Development Council (2021 – present)
- MIT Vernon E. Altman Fund Scholarship (2015 – 2019)
- MIT NCAA Division III Varsity Softball Team (2015 – 2018)

Individual

NFCA National Academic Excellence (2016, 2017, 2018)
NEWMAC Academic All-Conference Team (2017, 2018)

Team

NCAA Division III World Series Finalist, Super Regional Champion, and Regional Champion (2016, 2018)

- Gordon Engineering Leadership Program (2017 – 2018)
- The Lawrenceville School Marcus D. French Memorial Prize (2012)

COMMUNITY INVOLVEMENT AND HOBBIES

- Goldman Sachs New Analyst and Intern Committee (2019 – present)
 - Director of Corporate Engagement pillar (2021 – present)
 - Director of Career Advancement pillar (2020 – 2021)
- Goldman Sachs MIT Hiring Volunteer (2021 – present)
- Hobbies: figure skating, speed skating, classical music, Ohio State football