# LISA EVEREST

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## EDUCATION

**Massachusetts Institute of Technology** 2015 – 2019
*B.Sc. in Mathematics with Computer Science and B.Sc. in Management*
GPA: 5.0/5.0

**Princeton University** 2014 – 2015
- MAT215 Honors Single Variable Analysis (B+), concurrent with high school

**The Lawrenceville School** in Lawrenceville, NJ 2011 – 2015
GPA: 4.02/4.0 *Cum Laude Society*

## TEACHING EXPERIENCE

**MIT Math Undergraduate Teaching Assistant** Fall 2018
*Mathematics for Computer Science (6.042)*

**MIT Math Tutor** Fall 2016, Fall 2017
*Math Learning Center*

**MIT High School Teacher in Math and Computer Science** January 2017
*Global Teaching Lab in Milan, Italy*

**MIT Physics Teaching Assistant and Grader** Spring 2016, Fall 2016
*Physics I (8.011, TA and Grader), Physics I (8.012, Grader)*

**MIT Computer Science Mentor** Fall 2015
*SWE #HelloWorld Middle-School Girls' Program*

## RESEARCH EXPERIENCE

**Securities Extern** *at NERA Economic Consulting (New York, NY)* January 2018
- White paper: Explored cryptocurrencies, valuation methodologies and techniques, and their uses in a technical paper
- Contributions to cases: Performed valuation of companies using DCF's

**Undergraduate Researcher** *at Imperial College of London Data Science Institute* Summer 2017
*Advisor: Professor Yves-Alexandre de Montjoye*
- Big data techniques: Conducted analysis of anonymization and pseudonymization techniques for big data, such as salted hashing and k-anonymity
- Course design: developed an effective course for business clients on these anonymization techniques

## PROFESSIONAL EXPERIENCE

**Goldman Sachs (New York, NY)**
*Quantitative Associate, Special Situations Group (Asset Management Division)* December 2021 – Present
*Quantitative Analyst* March 2021 – December 2021
- Portfolio management: Analyses and pricing of various aspects of business portfolio, including FX exposure, public equity risk, and senior management reports of the entire business
- Deal modeling: Extended knowledge beyond training to design creative solutions for obscure model failures
- Database uplift and support: Developed strategic pipeline in Sybase database for automated business income statement
- Backend developer and product manager: 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

*Technology Analyst, Investment Banking Division* July 2019 – March 2020
- Frontend development: Implemented UI features on a platform helping clients analyze and hedge their interest rate risk.

*Technology Intern, Investment Banking Division* Summer 2018
- Model back-testing: Tested implied VaR/Vol models against historical values with IBD Corporate Derivatives Strats.

**McDonald's (Columbus, OH)**
*Crew Member* 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