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 Analyst, Special Situations Group (Asset Management Division) March 2020 – November 2021
Quantitative Associate December 2021 – Present
- 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