

Home Address:
2081 Westridge Road
Los Angeles, CA 90049

Jeffrey Sperling
(310) 701-5688 | jsper@mit.edu

Term Address:
305 Memorial Drive
Cambridge, MA 02139

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Bachelor of Science in Physics, Minor in Economics

Cambridge, MA

Sep 2011 – Jun 2015

- *GPA:* 5.0/5.0; *Coursework:* Probability Theory, Differential Equations, Physics, Neuroscience, Economics, Rhetoric
- *Activities:* Varsity Tennis Team, MIT Presidential Search Committee, MIT Committee on the Undergraduate Program
- *Honors & Awards:* ITA All-Academic Honors, Distinguished Freshman Award in Entrepreneurship, Balanced Man Scholar

HARVARD-WESTLAKE SCHOOL

Graduated with Highest Honors

Los Angeles, CA

Sep 2007 – Jun 2011

- *GPA:* 4.5/4.0; *SAT I:* 2340 (800CR, 740M, 800W); *SAT II:* 800 Math II, 800 Physics
- *Honors & Awards:* School Prize for Top Achievement in Math and Science, USA Physics Olympiad Semifinalist
- *Summer Activities:* Ross Mathematics Program (in Number Theory), Summer Science Program (in Astrophysics)

EXPERIENCE

J.P. MORGAN

Summer Analyst, Investment Banking – Diversified Industries

New York, NY

Jun 2012 – Aug 2012

- Analyzed the fundamental investment potential of 700+ companies for holdings conglomerate seeking ~\$1 billion acquisition
- Performed extensive research, including comparables analysis, for an equity private placement in the port shipping sector
- Helped prepare market overview and strategic discussion of domestic steel industry in pitch to \$10+ billion steel producer
- Modeled trading comparables of 60+ public companies within the chemicals space, with pro forma accretion/dilution analysis

CREDIT SUISSE AG

Winter Analyst, Sales and Trading – Equity & Fixed Income Derivatives

New York, NY

Jan 2012 – Feb 2012

- *Equity Derivatives:* Performed preliminary research to model hypercorrelated volatility (“contagion”) among asset classes. Automated option premium calculations and consensus earnings forecasts. Performed research for internal strategy reports
- *Fixed Income Derivatives:* Wrote program in Python to simulate the randomness of market movements and calculate the maximum drawdown. Proposed an arbitrage strategy with interest rate swaptions on implied and historical volatility

CHECCHI CAPITAL ADVISERS

Summer Analyst

Beverly Hills, CA

May 2011 – Aug 2011

- CCA is an investment management firm focusing on portfolio diversification to match sector indexes
- Analyzed historical daily returns of the S&P 500 and presented option pricing models with alternate underlying distributions
- Wrote program in Python to automate the analysis of exchange-traded funds, saving hundreds of hours per year for the firm

MIT LABORATORY FOR FINANCIAL ENGINEERING (LFE)

Research Assistant to Andrew Lo, LFE Director and Professor of Finance

Cambridge, MA

Sep 2011 – Jun 2012

- Wrote program in MATLAB to demonstrate that irrational human behavior can yield optimal results for population growth
- Research presents the “binary choice model” as a groundbreaking alternative to expected utility theory in classical economics

SUMMER SCIENCE PROGRAM IN ASTROPHYSICS

Program Participant

Santa Barbara, CA

Jun 2010 – Aug 2010

- Worked in teams of three to calculate the orbit of a near-earth asteroid around the sun, using only our ground-based telescope
- Performed millions of chaotic simulations to determine the asteroid’s probability of collision with the earth
- Refined Caltech-JPL’s parameters of orbit and submitted results to the Harvard-Smithsonian Center for Astrophysics

LEADERSHIP

MIT VARSITY TENNIS TEAM – *Undefeated 3-0 Record, ITA All-Academic Honors*

Sep 2011 – Present

MIT PRESIDENTIAL SEARCH COMMITTEE – *Committee Member*

Feb 2012 – May 2012

- Directly participated in the selection of the MIT’s 17th President from over 500 highly qualified candidates

MIT SLOAN BUSINESS CLUB – *Board Member and Initiative Co-Founder*

Sep 2011 – Jun 2012

- Founded SBC’s first community service initiative, a financial literacy program designed to aid small businesses in Haiti

H-W SCIENCE BOWL, MATHEMATICS CLUB – *President and Captain*

Sep 2009 – Jun 2011

- Coached science bowl team to 2nd place finish at Los Angeles Regional Competition and won \$3500 for school
- Quadrupled math club membership and led math team to honorable mention in international math competition

H-W SYMPHONY ORCHESTRA – *Double Bass, Principal*

ADDITIONAL

- *Community:* Performed research at the UNICEF Innocenti Research Center in Florence, Italy, to understand why women and children in sub-Saharan Africa are denied basic resources following natural disasters. To be published by Oxford University Press
- *Technical Skills:* Java, Python, MATLAB. *Interests:* Competitive tennis, double bass, Latin literature, trail running