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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:** Micro / Macroeconomics, Probability Theory, Differential Equations, Computational Neuroscience
- **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 Scholarship

### 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)

## WORK EXPERIENCE & RESEARCH

### J.P. Morgan

*Investment Banking Summer Analyst – 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 a potential 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

*Sales and Trading Winter Analyst – 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 and tested 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 to suggest exotic option pricing models with atypical 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

## LEADERSHIP

### 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 Varsity Tennis Team – Undefeated 3-0 Record, ITA All-Academic Honors

Sep 2011 – Jun 2012

### MIT Sloan Business Club – Board Member and Initiative Co-Founder

### H-W Science Bowl, Mathematics Club – President and Captain

Sep 2009 – Jun 2011

### H-W Symphony Orchestra – Double Bass, Principal

## ADDITIONAL INFORMATION

- **Community:** Founded the Sloan Business Club’s first community service initiative, a financial literacy program designed to help nonprofits and small business owners in Haiti. Also 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
- **Technical Skills:** Java, Python, MATLAB. **Interests:** Competitive tennis, double bass, Latin literature, astronomy