

Theodore (Teddy) Polk

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EDUCATION

The University of Chicago

Chicago, IL

Master of Science in Financial Mathematics

Expected December 2025

- Courses: Portfolio Theory & Risk Management, Python, Option Pricing, Probability & Stochastic Processes

Lehigh University

Bethlehem, PA

Bachelor of Arts in Mathematics & Economics (GPA: 3.88/4.0)

May 2024

- Courses: Mathematical Modeling, Statistical Computing, Stochastic Calculus I & II, Statistical Machine Learning
- Awards: Highest Honors; C.C. Hsiung Award - most outstanding student in mathematics

SKILLS & INTERESTS

Computing: Java, R, Excel, Python, Stata, LaTeX, SAS

Certifications: Bloomberg Market Concepts, Akuna Capital Options 101, Portfolio Optimization (Coursera)

Interests: Poker, Chess, Soccer, Snowboarding, Cycling, Golf, Weightlifting

EXPERIENCE

TriVista

Irvine, CA

Business Consulting Summer Analyst

June 2023 – July 2023

- Identified \$1.4 million in potential EBITDA savings through scrap reduction and revenue growth via repeat defect reduction for a middle market manufacturing company owned by a prominent private equity firm
- Conducted comprehensive data analysis and collaborated on a plan to increase overall equipment effectiveness of one group of manufacturing lines by 30%, which would eliminate \$5.4 million of backlog in 7 months
- Joined a four-week on-site client engagement, assessing shop floor processes and creating a value stream map to identify inefficiencies and opportunities, including \$1.1 million in excess held-for-inspection parts

Lehigh University Mathematics Department

Bethlehem, PA

Teaching Assistant

February 2021 – May 2023

- Graded 200+ students' homework and quizzes each week for MATH 205 – Linear Methods, MATH 022 – Calculus II, MATH 231 – Probability and Statistics, and MATH 312 – Statistical Computing and Applications
- Communicated with professors and students about grading policies and completed grading in a timely manner

Lehigh University Master in Financial Engineering (MFE)

Bethlehem, PA

Project Associate

April 2022 – August 2022

- Collaborated with a team of students to create and virtually display an interactive stock market index that tracks the performance of the 100 largest publicly traded companies in Pennsylvania
- Imported financial data and wrote code in Python to handle the intricacies of weighting, calculating, and rebalancing the index automatically each quarter, gaining deep insight into stock market index construction

RESEARCH

Mathematics Researcher

January 2023 – May 2024

Lehigh University

- Studied open problems in Algebraic Combinatorics dealing with Hecke Algebras and Schur functions
- Met weekly with Professor Mark Skandera to go over advancement of research and consider new approaches
- Wrote a final paper detailing the group's work through the year and our conclusions

EXTRACURRICULAR

Lehigh University

Bethlehem, PA

Portfolio Analyst, Thompson Portfolio

November 2022 – May 2024

- Selected to serve on an exclusive 13-person board for Lehigh's student-run international investment fund
- Managed a portfolio consisting of foreign securities in various developed and emerging markets
- Conducted thorough financial analysis, leading to a 28% gain in EWN – a Netherlands based ETF

Academics Chair, Theta Chi Fraternity

August 2022 – May 2024

- Oversaw a six-member committee to implement initiatives, including study hours and tutoring sessions, to raise average chapter GPA from 3.23 to 3.39, the largest increase in this time span among 18 Greek organizations