

Louis Otto

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EDUCATION

The University of Chicago

Master of Science in Financial Mathematics

Chicago, IL

Expected: June 2025

- Courses: Probability & Stochastic Processes, Option Pricing, Portfolio & Risk Management, Python, C++
- Honors: Maroon Scholar (merit-based scholarship)

The University of Chicago

Bachelor of Arts in Economics, Minor in Astrophysics (GPA: 3.95/4.00)

Chicago, IL

June 2024

- Courses: Applied Regression Analysis, Linear Algebra, App Development, Statistical Methods, Econometrics
- Honors: Summa Cum Laude (highest honors), Robert Maynard Hutchins Scholar (top 10%)

EXPERIENCE

Hoover Institution, Stanford University

Summer Policy Bootcamp Participant

Stanford, CA

August 2024 – Present

- Engage in intensive seminars on critical policy issues, including fiscal policy, regulation, and national security
- Developing fact-based policy toolkit from distinguished leaders, including former Secretary of State Condoleezza Rice, four-star General Jim Mattis, and monetary policy expert John Taylor

Loomis, Sayles & Company

Quantitative Researcher – UChicago Project Lab

Chicago, IL

June 2024 – Present

- Construct convolutional neural networks using Python to predict price and volume patterns in futures markets
- Validate data source suitability for algorithms and examine academic research to improve image classification

Booth School Of Business

Summer Research Intern

Chicago, IL

June 2024 – Present

- Collaborate closely with Professor Dacheng Xiu (Poets & Quants' Best 40-under-40 Business School Professor)
- Engage in asset pricing research focused on feature engineering and comparative backtesting of ML models

Numeraxial LLC

Quantitative Researcher – UChicago Project Lab

Chicago, IL

March 2024 – June 2024

- Formulated and coded new mathematical multi-factor model for prepayment rates of mortgage-backed securities
- Utilized 4 features using OLS regressions and K-Nearest Neighbors ML algorithm to predict prepayment rates
- Cleaned and analyzed 3 large-scale Fannie Mae and Freddie Mac datasets with Python's data science packages
- Led 3 client presentations to communicate team progress on predictive models and answer technical questions

Allianz Investment Management

Global Private Debt Analysis Intern

Munich, Germany

June 2023 – August 2023

- Examined loan cash flows with focus on commitments, rates, and termination options
- Produced detailed analyses of PIMCO real estate holdings and market research for NYC skyscraper restructuring
- Recognized as first intern in 4 years to receive monetary bonus due to exceptional performance

EXTRACURRICULAR

The Blue Chips Investment Club

Special Situations & Portfolio Management Group Analyst

Chicago, IL

October 2021 – June 2024

- Presented long-only investment pitches for \$170,000 AUM premier student fund with ~6% acceptance rate
- Completed 9-week-long financial educational program in valuation, accounting, and value investing
- Applied modern portfolio theory to analyze and optimize club's portfolio using NumPy and Pandas packages

ADDITIONAL INFORMATION

Languages: German (native), French (elementary proficiency), Spanish (elementary proficiency)

Interests: Scuba diving (PADI-certified), astronautics, soccer (FC Bayern Munich), financial history, chess, traveling