

Matthew Adner

matthewadner.github.io

Education

Union College – Schenectady, NY Class of 2026
B.S. in Mathematics and Economics
Minor in Computer Science
Presidential Scholarship Recipient

Skills and Training

- Python, R, SQL, Java, HTML, CSS, JavaScript
- Libraries: Pandas, NumPy, Scikit-Learn, Matplotlib
- Data Visualization, ML, NLP, AI Workflow Development
- Excel, Tableau, Power BI, QGIS

Courses: Data Mining and ML [Python], Natural Language Processing [Python], Probability Theory, Econometrics [Stata], Data Visualization [Tableau], Financial Analysis [Excel], Forecasting Seminar [R], Data Structures and Algorithms [Java]

Financial and Quantitative Experience

Summer Analyst: TVG Consulting – Remote Jun 2025 – Aug 2025

- Built an AI tool to collect, clean, and integrate public data into a proprietary dataset for market research.
- Contributed to buy- and sell-side due diligence in digital infrastructure, focusing on growth, valuation, and synergy.
- Informed strategic and operational recommendations through market research and expert interviews; supported client relations.
- Developed financial models and performed geospatial and data-driven analyses to support M&A strategy and execution.

Co-President: Student Investment Fund – Schenectady, NY Sep 2022 – Present

- Founded Quantitative Strategies Group. Co-manage over \$1M of Union College endowment.
- Lead 50+ member meetings, regularly present to club on derivatives mechanics, option pricing, and quantitative investment.
- Develop trading algorithm trained on over 16 million datapoints, conduct backtesting, trading analysis, portfolio optimization.
- Produce visualizations to communicate portfolio performance, allocation, and market correlation.
- Explain technical processes and systems to an audience of technical and non-technical students and professors.

Research Assistant: Tuck School of Business at Dartmouth College – Hanover, NH Jun 2023 – Feb 2025

- Translate successful equity trading strategies to regional real estate markets to backtest their effectiveness.
- Develop code in R and Python to synthesize data analysis into clear visualizations and dashboards.
- Synthesized real estate transaction data into MBA case study materials on investment strategy and property valuation.

Assistant Scientist and Mentor: New Hampshire Academy of Science – Lyme, NH Summer 2021 – 2023

- Taught modules on computer science, machine learning, computer vision, 3D modeling, and Arduino, for ages 13-18.
- Advised experimental design, execution, and analysis. Directed social media and outreach efforts.
- Researched & presented object detection [machine learning applications](#) and spectrometry techniques for [plant stress detection](#).

Consumer Review Data Analysis: Independent Project – Hanover, NH Jun 2021 – Sep 2021

- Cleaned and processed over 400,000 textual and numerical reviews of Amazon products for over 50 unique companies.
- Identified statistically significant star rating bias given to smaller companies using sentiment analysis and machine learning.

Work Experience

Yoga Club Treasurer: Union College – Schenectady, NY Jul 2025 – Jun 2026

- Manage budget, coordinate logistics for instructor contracts, and transportation for on and off-campus sessions.

Beuth House Procurement Chair: Union College – Schenectady, NY Mar 2023 – Nov 2024

- Identified and procured resources for events, negotiated contracts with local businesses, collaborated with faculty.

Ski Instructor: Dartmouth Skiway Snowsports School – Lyme, NH Winters 2018 – 2023

- Led beginner and intermediate ski lessons for individuals and groups of all ages. PSIA Alpine Ski Level 1 Certified.

Computer Science Teaching Assistant: Hanover High School – Hanover, NH Sep 2021 – Jun 2022

- Presented lectures, worked with students, graded assignments, developed software for student interaction measurement.

Elected Swim Team Captain: Hanover High School – Hanover, NH Dec 2021 – Mar 2022

Associate Member: Sigma Xi Scientific Research National Honor Society Winter 2020 – Present

Summer@INSEAD: INSEAD Business School – Fontainebleau, France Summer 2022

Founder & President of Plant Club: Hanover High School – Hanover, NH Sep 2021 – Jun 2022

Interests: Skiing, Cycling, Yoga, Running, Coffee, Cooking