

# Matthew Adner

[adnerm@union.edu](mailto:adnerm@union.edu) | [matthewadner.github.io](https://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
- Excel, Tableau, QGIS, Power BI
- Data Visualization, ML, NLP, AI Workflow Development
- Communication, Technical Writing

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

## 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 – June 2026

- Quantitative Strategies Group Founder. 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 – June 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**      Winter 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 2022 – 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