

# DANIEL BIERNAT

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**PROFESSIONAL SUMMARY:** MS Finance candidate at CU Boulder and quantitative researcher on CU Quants' \$500k student-managed fund. Co-author on Hidden Markov Model-based cryptocurrency trading research; CFA Level II candidate (passed Level I). Targeting investment analyst, quantitative analyst, and trading roles.

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## EDUCATION

UNIVERSITY OF COLORADO BOULDER, LEEDS SCHOOL OF BUSINESS

Boulder, CO

*Master of Science in Finance*

Expected May 2026

- **Graduate GPA (current):** 3.70 / 4.00

- **Relevant Courses:** Advanced Portfolio Management, Applied Derivatives, Fixed Income Investing, Corporate Finance, Quantitative Methods, Investment Management & Analysis, Applied Financial Management

UNIVERSITY OF COLORADO BOULDER

Boulder, CO

*Bachelor of Arts in Mathematics; Bachelor of Arts in Economics; Minor in Business*

August 2023

- **Relevant Courses:** Mathematical Statistics, Introduction to Probability Theory, Financial Econometrics, Applied Econometrics, Money and Banking Systems, International Finance, Principles of Finance, Business and Financial Analytics I & II

## RESEARCH & PROJECTS

**CU Quants** – Quantitative Researcher, Student-Managed Fund

- Quantitative researcher for a student-run fund managing approximately \$500k in capital.
- Co-author, [Applied Hidden Markov Models for Cryptocurrency Trading](#) (Nov 2025) - used HMMs to identify volatility regimes.

**FinEdge Labs** – (Founder/Developer) — [finedgelabs.com](https://finedgelabs.com)

- Built and launched SEC/EDGAR data platform (Python/FastAPI + PostgreSQL; Next.js/TypeScript) deployed on Render/Vercel
- Built XBRL+HTML extraction/normalization pipeline; automated validation across ~39k filings/~1k companies; Excel/CSV export

## PROFESSIONAL EXPERIENCE

MATHEMATICS TUTORING

Superior, CO

*Tutor*

October 2023 - Present

- Provide one-on-one tutoring in pre-algebra, algebra, and geometry.

PLANTA ANALYTICA, INC

Remote

*Data and Operations Analyst*

September 2023 - August 2025

- Conducted statistical analysis and supported budgeting, cost tracking, and cash flow reporting to improve operational efficiency and inform resource allocation.
- Optimized processes by maintaining documentation and implementing innovative methods to streamline tasks and reduce manual workload in recurring processes.
- Redesigned and launched corporate website and maintained it for optimal performance and brand visibility.

OUTLIER

Remote

*Mathematics AI Trainer*

January 2024 - August 2025

- Developed advanced mathematical prompts for AI model training, leveraging mathematics expertise to improve problem-solving accuracy and conceptual understanding.
- Critically evaluated and refined AI-generated responses for mathematical accuracy, fluency, and pedagogical value, performing revisions or complete rewrites to ensure conceptual clarity and technical thoroughness.

FIDUCIENT INVESTMENT ADVISORS

Remote

*Summer Intern*

June 2021 - August 2021

- Participated in a comprehensive 12-module program, enhancing financial and investment knowledge through hands-on training and networking opportunities.
- Identified and evaluated actively managed funds suitable for hypothetical client scenarios based on investment strategy and managerial expertise.

## ADDITIONAL INFORMATION

**Languages**

English (Native) • Polish (Fluent) • Spanish (Conversational)

**Technical Skills**

Python • R and R Studio • VBA • LaTeX • MATLAB • Mathematica • Markdown  
Microsoft Office • Logic Pro X • Ableton Live • Final Cut Pro • Adobe Lightroom

**Certifications and Awards**

CFA Level II Candidate • Passed CFA Level I Exam • Bloomberg Market Concepts  
Wall Street Prep - M&A and LBO Modeling • Eagle Scout, Boy Scouts of America

**Clubs**

CU Quants - Quantitative Researcher (Research Team) • Leeds Investment and Trading Group

**Interests**

Skiing • Electric Guitar • Electronic Music Production • Off-Roading • Rebuilding Vintage Motorcycles