

EDUCATION**University of Wisconsin - Madison** | 3.8/4.0 GPA

Sep 2023 - May 2026

- **B.S. Mathematics** (*Honor*), **Economics** (*Math Emphasis*), and **Data Science** | Minors: **Computer Science**, **Business**
- **Courses:** Data Science Programming (Python & R), Mathematical Modelling (Matlab), Stochastic Process, Numerical Analysis, PDE Analysis, Real Analysis, Macroeconomics, International Trade, Growth Economics, Accounting
- UW-Madison Scholarship (\$15k in total): 2023Fall, 2024Spring, 2024Summer

PROFESSIONAL EXPERIENCE**Plug and Play, China**

Sep 2025 - Nov 2025

Intern, Investment Analyst

Shanghai (hybrid), China

- Conducted industry and market research on embodied AI, robotics, and applied AI; synthesized findings into concise briefs for investment associate.
- Supported accelerator operations end-to-end—source and screen startups, run initial diligence, maintained pipeline CRM, and coordinate mentor matching and PoC pilots with enterprise partners.

Guosheng Securities Co., Ltd.

Jul 2025 - Sep 2025

Intern, Quantitative Research

Shanghai (hybrid), China

- Scripted an automated data filtering process for pharmaceutical funds using Python, streamlining the screening of 3,000+ funds and significantly reducing manual review time.
- Conducted cross-sectional factor attribution on fund performance (market cap, P/E, dividend yield); identified risk-mitigating factors ($\$p < 0.01\$$) to provide quantitative support for the team's allocation strategy.
- Refactored data processing scripts using Parquet I/O and vectorization techniques, solving performance bottlenecks in large-scale backtesting and reducing execution errors.

CITIC Securities Co., Ltd.

May 2025 - Jul 2025

Intern, Quantitative Research

Beijing, China

- Independently architected and implemented a high-throughput news ingestion pipeline, processing 20K–30K market news articles daily; developed an end-to-end NLP workflow leveraging pre-trained language models (e.g., GPT, DeepSeek, Gemini) to automatically extract and summarize stock-level price-movement drivers.
- Built an automated ETF factor mining tool using Microsoft's open-source Qlib core: designed custom factor definitions, fine-tuned and adapted models, orchestrated distributed training, and conducted backtests to validate signal robustness, significantly enhancing factor generation efficiency and strategy performance.
- Utilized Python, Pandas, NumPy, and PyTorch/Tensorflow to write modular, reusable code; implemented data-processing scripts and model training pipelines that reduced development time and improved team productivity.

Shanghai Pudong Development Bank, Hong Kong Branch

Jun 2024 – Aug 2024

Intern, Financial Institutions Department

Hong Kong SAR

- Independently analyzed 5-year operational performance of Chinese bank-affiliated investment banks, covering financial metrics, business strategies, and competitive landscape. Developed data models and trend analysis to support departmental decision-making. The analytical framework and documentation were adopted as templates for future use.
- Contributed to a syndicated loan project by assisting in due diligence, financial modeling, and contract term reviews, gaining hands-on experience in cross-border collaboration and compliance analysis.

Guosheng Securities Co., Ltd.

Jun 2023 – Aug 2023

Intern, Fixed Income Research

Remote

- Supported analysts in producing periodic interest rate market reports, compiling historical yield curve data (2018–2023) for key treasury maturities and analyzing impacts of monetary policy shifts and macroeconomic events.
- Maintained and updated a fiscal debt database for 300+ prefecture-level cities, tracking 12 core indicators (e.g., debt balances, LGFV bonds). Implemented early-warning mechanisms for financing costs and debt ratios to enhance credit risk assessments.

RESEARCH EXPERIENCE**Neural Network Parameterization for PDE-Constrained Optimization**

Sep 2025 - Dec 2025

Madison Experimental Mathematics(MXM) Lab | Advisor: Prof. Yukun Yue

Department of Mathematics, UW-Madison

- Implemented neural network parameterizations that enforce hard constraints via constraint-aware output activations, turning a constrained PDE-control problem into unconstrained optimization over network weights.

The Effect of the Hong Kong Political Change during 2019 on Trade

Sep 2024 - Dec 2024

*Thesis | Advisor: Prof. Lydia Cox*Department of Economics, UW-Madison | [Intro Slides](#) | [View Here](#)

- Applied a difference-in-differences approach comparing Hong Kong and Singapore using trade data from 2005–2023 to assess the impact of 2019 protests and policy changes.

Impact of Municipal Bond on Local Economic Growth

Jan 2024 - May 2024

*Honor Thesis | Advisor: Prof. Simeon Alder*Department of Economics, UW-Madison | [View Here](#)

- Employed OLS and panel data methods to examine the impact of municipal bond issuance on local GDP growth in Chinese prefecture-level cities. findings reveal significant regional variations and diminishing marginal returns.

Measure Theory – Directed Reading Program

Sep 2023 - Dec 2023

Undergraduate Participant

Department of Mathematics, UW-Madison

- Explored advanced measure theory topics including Lebesgue integration, sigma-algebras, and convergence theorems under the mentorship of a PhD student. Participated in weekly seminars and delivered a final presentation summarizing key insights.

SKILLS

Programming	Python, R/RStudio, MATLAB, Stata, Java, MySQL, C/C++
Technical	Excel, Power Point, LaTeX, Bloomberg Terminal (with BMC Certificate), and actively exploring new AI agents & models
Languages	Mandarin (native), English (fluent), Cantonese (basic)
Academic Focus	Macroeconomics, Growth Economics, International Trade, Quant Research, LLM