William Ou

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EDUCATION

University of Illinois Urbana-Champaign **Expected May 2025**
Gies College of Business and Siebel School of Computing and Data Science *Cumulative GPA: **3.99/4.00***
Degrees: B.S. in ***Statistics & Computer Science,*** B.S. in ***Finance*** Honors: James Scholar, Dean's List
Coursework: **Machine Learning** (DL, RL, & NLP), **Regression Analysis, Portfolio Management,** Financial Modeling, Accounting, **Public Speaking,** Corporate Finance, **Data Structure, Databases, Algorithms, Financial Engineering**

Investment Management Academy at UIUC **Champaign, IL**
Associate *May 2023 – Present*

- 1 of 50 students admitted to **a highly selective, multi-year program** tailored to careers in investment management
- Provide investment advice for a **$1.6 million long-only SMID equity portfolio** by writing 15-page research reports and building specialized **3-statement models** utilizing **S&P CapIQ, Bloomberg Terminal, and Refinitiv Eikon**

PROFESSIONAL EXPERIENCE

GCM Grosvenor **New York, NY**
Private Equity Quantitative Summer Analyst *June 2024 – August 2024*

- Engineered a systematic **quantitative cashflow evaluation system** for a **$56 billion alternative portfolio** involving 500+ managers and 100+ projects across 8 strategies to **streamline the assessment, management, and reporting** of **investment risk and return** with **advanced data analysis and machine learning, boosting efficiency by 30%**
- Applied **regression analysis, recurrent neural networks, and multi-objective optimization** to generate accurate **cashflow forecasts,** significantly promoting strategic decision-making for **co-investment and infrastructure deals**
- Established a **comprehensive benchmark framework** to compare private companies and fund managers against public entities and indices, resulting in a 15% increase in dedicated fund **portfolio diversification and optimization**
- Partnered with technology and client-relation teams to **develop and integrate analysis and reporting tools** into the **deal cloud and client portal,** improving client engagement by 20% through enhanced data access and transparency

Yushun Asset Management Co., Ltd. **Hybrid, Shenzhen, China**
Quantitative Developer Summer Analyst, Global Markets *March 2023 – September 2023*

- Collaborated with 8 analysts to **identify swift investment opportunities, elevate trading strategy performance, and implement quant infrastructures** for a $160 million portfolio of U.S. and China **equity, bonds, and futures**
- Utilized a **5-factor market model** incorporated with **Principal Component Analysis** to analyze the equity market and designed a **weekly-adjusted market-neutral strategy** with 29.6% excess return and 2.7 Sharpe ratio over basis
- Created a dynamic **Factor-on-Factor weight-adjusting factor investing strategy** using Momentum and Centrality, achieving 4.2% excess return, 3.4% volatility reduction, and 2.79 Information Ratio over the equal-weight model

LEADERSHIP AND ON-CAMPUS ACTIVITIES

Causal AI Research Lab and SysNet at UIUC **Champaign, IL**
Undergraduate Researcher and Course Assistant *Jan 2024 – Present*

- Conduct research on **algorithm derivation and reinforcement learning** for **meta policy optimization** to reach target equilibrium in **competitive multi-agent environments** under direct mentorship from the professor
- Joint effort a **control flow validation software** for Boeing's aircraft central system, ensuring reliability and safety
- Assist in teaching **System, Algorithm, and AI courses** by grading 1200+ student assignments, leading 20+ lectures, and mentoring 60+ students through weekly office hours, effectively facilitating their academic development

Equity Research Association **Champaign, IL**
Co-Founder, Ex-President and Sponsor *September 2022 – Present*

- Mentor 24 junior analysts on 8 **industry analytical reports** for 29 companies with 3-statements modeling training
- Offer 24 lectures and 30 hours of workshops on **quantitative methods and financial engineering special topics**, teaching 70 students **factor investing theories and procedures,** trading book management and optimization, data mining and visualization, and numeric methods for advanced asset pricing with **object-oriented Python training**

Yang & Partners (Z-land Group U.S.) **Champaign, IL**
Co-Founder; Quant Lead *March 2023 – Present*

- Head a team of 12 student analysts to manage a **$25 thousand SMID equity portfolio** with a **value-oriented and beta-neutral long-short strategy** powered by macro indicator research and quantitative-fundamental analyses
- Lead an 8-member quantitative research team to construct a potent **industry rotation/selection algorithm** based on macro regime judgement to optimize asset allocation among 25 industry groups, attaining **dynamic hedging** through calculating 11 Greek Letters, Implied Volatility, and Value at Risk & Expected Shortfall from **GARCH**

ADDITIONAL INFORMATION

Languages: English (Fluent), Chinese (Native), Japanese (Elementary)
Technical: Microsoft Office, Python (PyTorch, TensorFlow, SciPy, QuantLib), SQL, R, C/C++, GitHub Version Control