

Ellie Ouyang

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EDUCATION

The University of Chicago

Bachelor of Science in Computational and Applied Mathematics, Bachelor of Science in Computer Science

GPA: 3.63/4.00, PGPA: 3.75/4.00 and 3.71/4.00

Honors: University Pritzker Scholar Award (2022-2026), Rogers Scholar (2023 – 2024), Top Ten International Physics Bowl (2022), Female Scholar Athlete of the year (2022), USACO Silver

Relevant Coursework: Mathematical Modeling, Mathematical Probability, Honors Physics (Mechanics, E&M, Waves + Optics), Computer Science and Systems Programming, Linear Algebra, Analysis in \mathbb{R}^n /Topology, Statistical Theory and Methods

Chicago, IL

Expected, June 2026

EXPERIENCE

JPMorgan Chase & Co.

IDP (Innovation Development Program) Summer Analyst

New York City, NY and Chicago, IL

June 2024 – July 2024

- Conducted competitive analysis and user interviews to develop a product that will improve JPMC's DEI efforts by solving for user pain points, coded a TUI Python script of the MVP, outlined the OKRs and KPIs for the future roadmap of the product and presented to senior management and directors
- Gained insight into JPMorgan's initiatives and strategies, specifically product management of AI/LLM products in a commercial banking context

Othis

Quantitative Finance Intern

Vienna, Austria

July 2024 – September 2024

- Analyze risk factors specifically in the equity market context, reproduce results from literature using different databases and factor creation: selecting different universes and factors (HML, P/E, Momentum), factor scoring based on specific metrics, and performing backtesting using Jupyter Notebook and Python
- Develop a tool that will help preprocess price and fundamental data, mostly working with the Polars Python library

Argonne National Laboratory

Undergraduate Researcher

Lemont, IL

June 2023 – September 2023

- Conducted sensor detection experiments using the Remote Floating Gate FET and Keithley semiconductor analyzer, collected adsorption results using QCM to study PFOS detection, analyzed data and trends through graphs in Excel
- Performed surface functionalization of Beta-CD-PBASE-rGO by thermal annealing, prepared 40+ SDS, PFOS, and mixture samples, presented findings to the EPA and other renown researchers

LEADERSHIP & ACTIVITIES

UChicago Badminton Team

President, Team Captain

Chicago, IL

September 2023 – Present

- Host local badminton tournaments with 200+ participants, distribute tasks between board members, organize weekly meetings
- Facilitate warm-ups and stretching before matches, coordinate team breakfasts and dinners, won the 2023 DURABIRD Collegiate Badminton Tournament National Championships

UChicago Society of Women in Math (SWIM)

Member

Chicago, IL

September 2023 – Present

- Organize and participate in events aimed to help female students break into financial careers such as poker learning events with Poker Power at Peak6, invited to compete in the first Women's Poker Tournament on campus hosted by SIG
- Represented UChicago in IMC Trading's inaugural Math Madness Matchup between UChicago and Northwestern led by Mike Byster, invited to attend Jane Street's Chicago Mystery Puzzle

TECHNICAL PROJECTS

Python Implementation of Go (March 2024)

Chicago, IL

- In a team of four students, developed a playable Go game, including the game logic, a GUI, a terminal-based interface, a simple game-playing strategy, and tests. Code available upon request.
- Technologies/Tools: Python, Pygame, Pytest, git, GitHub, Linux command-line

SKILLS

Languages: Proficient in English and Mandarin Chinese

Computer: Advanced knowledge in Java, Python, C, and C++, proficient in Microsoft PowerPoint, Excel, Word, and Teams