


# Elizabeth (Liz) Liu

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## EDUCATION

### Columbia University

New York, NY

*Bachelor of Science in Decision Science & Data Analytics, Minor in Artificial Intelligence*

Aug. 2025 – May 2029

- GPA: 3.7983/4.00
- Relevant Coursework: Data Structures and Algorithms, Multivariable Calculus, Data Engineering, Probability
- Activities: Society of Women Engineers (SWE), Jumpstarting Aspiring Developers and Entrepreneurs (JADE), Institute for Operations Research and the Management Sciences (CUINFORMS), Columbia Poker Club

## EXPERIENCE

### Head Intern and Economic Research Analyst Intern

Jun. 2023 – Aug. 2025

*City of Beachwood Economic Development Department*

Beachwood, OH




- Entered as the most senior intern, and over the following years, mentored and supervised the onboarding of additional team members, leading a team of 12 interns
- Led research and planning for a biomedical innovation ecosystem that directly supported growth of industry clusters, generating 100+ jobs, \$320K+ in City tax benefits, and \$5M in capital investment over 3 years
- Laid the foundation for the Beachwood Community Improvement Corporation's innovation committee, which has now funded \$60K in forgivable loans for 3 R&D companies and launched a \$1M revolving loan program

### Marketing Intern

Feb. 2023 – Jan. 2025

*JNForensics, LLC*

Tampa, FL (Remote)

- Produced marketing content featured by Joe Navarro on Twitter , LinkedIn , Facebook  (73.1K+ followers)
- Enhanced understanding of nonverbal communication, branding, and audience psychology through mentorship from Joe Navarro (CEO, JNForensics; former FBI Special Agent) and Anne-Maartje Oud (CEO, Behaviour Company)

### AI and Machine Learning Intern

May 2024 – Aug. 2024

*Case Western Reserve University School of Engineering*

Cleveland, OH

- Applied linear algebra to build 2D/3D probabilistic models for data prediction
- Developed Python models on synthetic data (cross-entropy loss, logistic regression, Gaussian processes, Bayesian optimization, Metropolis sampling) to model uncertainty and evaluate its impact on predictive decision-making

### Cambridge Future Scholar Programme

Jun. 2023 – Aug. 2023

*Cambridge Centre for International Research | Paper *

Cambridge, UK (remote)

- Applied the Fearon Bargaining Model to a game-theory-based research paper on post-Wars of the Roses England
- Analyzed commitment problems, signaling, and equilibrium failures to understand civil conflict and state consolidation; worked with Dr. Stephen Chaudoin (Harvard) and Dr. Michael-David Mangini (Yale)

## LEADERSHIP & ACTIVITIES

### Columbia Society of Women Engineers | *EEE Organizational Committee Member*

Sep. 2025 – Present

- Coordinate events and initiatives for a 500+ member student organization supporting women in STEM
- Developing the 2026 SWE Engineering Exploration Experience (EEE) event, hosting 200+ high school students at Columbia University as part of a 6-member team

### Hope Heroes Ohio | *VP of Finance*

Aug. 2024 – Jul. 2025

- Created financial strategy within a 41-member team, coordinating fundraising that generated \$238K+ in corporate sponsorships for children's hospitals in NE Ohio, surpassing Junior Achievement global fundraising record by \$40K
- Individually secured \$5.5K in sponsorships; managed finances and pitch strategy for record-breaking initiative

### The Introspect | Website | *Editor in Chief and Founder*

Mar. 2023 – Jun. 2025

- Founded and led a global online magazine with 50+ contributors across 14 US States and 8 countries; organized collaborative multimedia initiatives focusing on topics ranging from interconnectivity to nationalism

## SKILLS, HONORS & INTERESTS

**Languages:** Python (Proficient), Java (Proficient), C++ (Intermediate), SQL (Intermediate), Stata (Intermediate)

**Libraries & Tools:** NumPy, Matplotlib, pandas, Microsoft Office, Google Workspace

**Interests:** sculptural ceramics, fitness boxing and sparring, horror movies, making noodles