

# YIYI (YVONNE) WU

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## EDUCATION

**New York University**, Graduate School of Arts and Science, New York, NY Sept 2024 – May 2026

Master of Science in Computer Science Courant

**Relevant Courses:** Deep Learning, Computer Vision, Machine Learning

**New York University**, College of Arts and Sciences, New York, NY Sept 2019 – May 2023

Bachelor of Arts, Joint Major in Economics and Computer Science, **GPA: 3.8/4.0**

**Honors and Awards:** Computer Science Prize for Academic Excellence and Service to the Department (2024), Cum Laude (2023), Dean's List (2019-2023), NYU Founders' Day Award (2023), Julius Silver Scholarship (2022)

**Programming Skills:** Python, Java, JavaScript, Swift, C, SQL, R, C++

## PUBLICATIONS

Wu, Y. (Presenter), Bari, A., Singh, S., Garg, T.P., Ker, E., Wang, C., Kang, B., Simpson, A., Lee, D., Nagel, D. (2024). [\*Towards Understanding Low Energy Nuclear Reactions: Structuring the Literature and Applying Data Analytics\*](#). 2024 the 9th International Conference on Big Data Analytics, Waseda University, Tokyo, Japan, March 16-18, 2024

Wu, Y., Bari, A., Garg, T.P., Singh, S., Nagel, D. (2024). [\*Exploring Artificial Intelligence Techniques to Research Low Energy Nuclear Reactions\*](#). Front. Artif. Intell. Sec. Machine Learning and Artificial Intelligence Volume 7

## EXPERIENCES

**NYU Courant Institute of Mathematical Sciences** New York, NY

Recitation Leader, Teaching Assistant

Sept 2024 – Present

- Lead recitation sessions to reinforce concepts from lectures and provide students with additional problem-solving practice

**AI & Predictive Analysis Lab, New York University** New York, NY

AI Researcher

June 2023 – Present

- Developed a **Neural Search Engine** to improve research paper retrieval, focusing on preprint processing and **Query Encodings**
- Analyzed research on **Neural Query Embedding**, **Open Domain QA**, and **Closed Domain Search** to guide system development
- Compared **Faiss** and **Apache Solr**, identifying optimal components through similarity search analysis
- Built and fine-tuned the Neural Search Engine with **Apache Solr** and **BERT-SQuAD**
- Automated data preprocessing, reducing processing time by 90% and boosting accuracy. Enhanced query accuracy by 15% and enabled dynamic text highlighting

**Latte, (Techstars Startup Accelerators)** New York, NY

Co-founder and Chief Technology Officer

April 2022 – May 2023

- Designed and developed a mobile app that helps higher-ed administrators prepare students in career mentorship programs
- Led a team of 7 in Agile and Test Driven Development of an iOS app using **Swift**, **Xcode**, **JavaScript**, and **Google Firebase**
- Optimized and streamlined technology stacks, enhancing scalability and reliability
- Improved efficiency with best practices in code organization and automated workflows, leading to a 20% reduction in codebase

**Financial Sciences Corporation** Jersey City, NJ

Software Development Intern

June 2022 – Dec 2022

- Upgraded product Web Pages, enhancing transaction retrieval and visualizations; connected Data Stream for business needs
- Wrote Web Pages with **XML Config**, **Java**, and **Javascript** and Data Pipeline connection with **SQL**
- Configured File Conversion Algorithms using Tomcat architecture and added new functions with **Maven Dependencies** and **Jars**
- Developed and maintained ATOM, a Treasury Management Software for transaction details visualization and report generations

**New York University CEDA Debate Team, New York University** New York, NY

Vice President & Junior Varsity Debater

Sept 2021 – May 2023

- 2022 C.E.D.A. National Championship Quarter Finalist Novice
- C.E.D.A. Georgetown College Tournament JV Top Speaker
- Participated in new student training and created training materials.
- Engaged in promotional activities on Instagram, Facebook, and at booths.

- Organized weekly meetings to introduce freshmen, reviewed our work, discussed future plans, devised debate strategies, and assisted sponsors including law firms in hosting competitions and outreaches.

## **PROJECTS**

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### **Mobile App: [Homie](#), winner of New York University Hackathon**

New York, NY

Project Lead

Feb 2022 – May 2022

- Designed and developed a web app for communications between students to walk home together, to help contribute to the safety and mental well-being in the community
- Acquired location data by Google Maps API, stored data of users through Firebase/Firestore, and developed algorithms to match students based on their locations and preferred departure time

### **Donor Analysis for USA for UNHCR, Break Through Tech AI**

New York, NY

Project Lead

September 2022 – December 2022

- Utilized **Binary Classification** models and **Change Point Detection** to spearhead a data analysis for investigating the relationships between email activities and donating inclination.
- Developed the advanced **Temporal Force-Directed Graph** visualization based techniques through **React.js, Express.js, and D3**, aiding to clear and concise presentations of donor status and behavior patterns.
- Generated a highly targeted list of potential donors for the upcoming campaigning season.