Andrea Hui Wynn

Johns Hopkins University
3400 North Charles Street
Baltimore, MD 21218

Email: awynn13@jhu.edu
Homepage: https://andreawynn.github.io/
Github: https://github.com/andreawynn
LinkedIn: https://www.linkedin.com/in/andrea-wynn/
OrcID: 0000-0001-7509-8274

Education

Ph.D. in Computer Science, Johns Hopkins University — August 2024 – Present

M.S.E. in Computer Science, Princeton University — August 2022 – May 2024
GPA: 4.00

Bachelor of Science, Rose-Hulman Institute of Technology — August 2018 – May 2022
Majors: Computer Science & Mathematics, **Minors:** Data Science & Psychology
GPA: 3.96

Publications

A. H. Wynn, I. Sucholutsky, T. L. Griffiths. *Learning Human-like Representations to Enable Learning Human Values.* NeurIPS 2024 Conference Proceedings.

A. H. Wynn. *Spectral Touching Points in Two-Dimensional Materials.* SIAM Undergraduate Research Online (SIURO), 2022. Link: https://doi.org/10.1137/21S143889X. Awarded Henry Turner Eddy Award for Applied Mathematics.

Employment

Machine Learning Science Intern — May – July 2023
Expedia Group, Austin, TX
Team: Vacation Rental Dynamic Pricing. Implemented GAN-based simulation to generate realistic customer interaction data and predict bookings on Vrbo website, with the goal of performing offline AB tests.

Software Development Engineer Intern — June – August 2022
Amazon Web Services, Seattle, WA
Team: Pool Balancing & Demand Forecasting Research. Designed and implemented tool for evaluating and monitoring metrics related to forecasting model accuracy.

Research Intern — November 2021 – May 2022
Circa, New York, NY
Conducted extensive literature review on supply chain modeling and optimization; designed supply chain management and optimization system for creating a circular economy.

Software Development Engineer Intern June – August 2021
Amazon Web Services, Seattle, WA
Designed and developed novel health score metric for issue prioritization and server health overview, using anomaly detection applied to AWS CloudWatch metrics.

Software Engineering Intern March – May 2021
Impact Snacks, Remote
Used web scraping and clustering algorithm to extract color palettes from websites given a URL.

Software Engineering Intern June – August 2020
Kratos Defense & Security Solutions, Colorado Springs, CO
Demonstrated feasibility of phase noise generation and usability in real time satellite communications testing through prototype implementation.

Software Engineering Intern June – August 2019
Collins Aerospace, Cedar Rapids, IA
Team: Government Systems Research & Development. Developed software guidance cue display to assist with formation flight for military rotary wing aircraft.

Honors & Awards

Percy Pierre Doctoral Fellowship	2024 – 2026
Jun Wu and Yan Zhang Graduate Student Fellowship	2024 – 2025
Louis M. Brown Engineering Fellowship	2024 – 2025
Herman A. Moench Outstanding Senior Commendation (news article)	May 2022
Frank Young Outstanding Service Award	May 2022
Rose-Hulman Center for Diversity Student Ambassador Award	May 2022
Rose-Hulman Independent Research Grant Recipient	February 2022
Society of Women Engineers Conference Scholarship (BorgWarner)	October 2021
2021 Chevron Scholarship	September 2021
Henry Turner Eddy Award for Applied Mathematics	May 2021
TechPointX SOS Challenge First Place Winner	August 2020
Rose-Hulman Student Leader of the Quarter	May 2020
Diversity Connect Engineering Design Challenge First Place Winner	October 2018
Rose-Hulman Dean's List, 12x (all quarters attending)	2018 - 2022

Professional Service & Leadership

Society of Asian Scientists and Engineers (SASE)

`https://saseconnect.org/`

Midwest Regional Coordinator June 2022 – Present
Serving as a mentor and representative of the SASE national organization for multiple Midwest SASE chapters.

Midwest Regional Conference Chair August 2021 – March 2022
Organized professional conference and career fair for 15 SASE Midwest chapters with 100+ attendees, 2 keynote speakers, and over 13 company sponsors.

President, Rose-Hulman Chapter February 2020 – May 2022
Launched community service program, planned events to represent more than 10 additional Asian countries, increased company speaker sessions and professional development events 2x.

Secretary, Rose-Hulman Chapter March 2019 – February 2020

Outreach Chair, Rose-Hulman Chapter October 2018 – March 2019

Society of Women Engineers

Co-Founder & Professional Development Chair, Princeton GradSWE January 2023 – May 2024

Secretary, Rose-Hulman Chapter March 2019 – March 2021

Backpat Tutoring

`www.backpattutoring.org`

Founder & Volunteer Coordination Manager May 2020 – May 2022
An organization whose mission is to create a community of passionate volunteers across the US to provide free tutoring and educational resources to students in need.

Teaching

Teaching Assistant, Princeton University
Computer Science: An Interdisciplinary Approach Fall 2022 - Spring 2024

Teaching Assistant, Rose-Hulman Institute of Technology
Introduction to Database Systems Fall 2019 - Spring 2021
Programming Language Concepts Fall 2020
Data Structures & Algorithm Analysis Spring 2019

English Tutor, Ringle February - June 2021
Coached professionals around the globe in advanced English speaking and writing. Specialized in helping students prepare for interviews and correcting academic papers. Awarded Tutor of the Week out of 400+ tutors on the platform during 2^{nd} week of tutoring.

High School Tutor, AskRose Homework Help September 2018 - May 2019
Helped answer questions in STEM subjects for high school students around the nation.

Lead Science Educator in Training, Pacific Science Center May 2014 – August 2018

Head English Teacher, Little Masters Club (Ankang, China) March – August 2017

Skills

Human Languages: English (Native), Mandarin Chinese (Native), Spanish (Moderately Proficient).

Machine Languages: Python, Java, C, C#, Scala, Scheme, HTML, TypeScript.

Big Data Technologies: AWS (S3, Athena, Redshift, Lambda), SQL, MongoDB, Neo4J, OrientDB.

Machine Learning and Data Science Libraries: PyTorch, Pandas, NumPy, Scikit-Learn.

Version Control: Git, SVN.

Last updated: November 13, 2024