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### Education

M.S.E. in Computer Science, Princeton University

August 2022 – Present

**Concentration:** Machine Learning

**GPA**: 4.00

Advised By: Dr. Thomas L. Griffiths

Relevant Coursework: Large Language Models, Computer Vision, Neural Networks, Computational

Models of Cognition

Bachelor of Science, Rose-Hulman Institute of Technology Majors: Computer Science & Mathematics Double Major

August 2018 - May 2022

Minors: Data Science & Psychology

**GPA**: 3.96

Relevant Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Data Mining, Linear Algebra, Deterministic Models in Operations Research, Advanced Database Systems, Real Analysis, Data Structures & Algorithm Analysis

# **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.

# **Publications & Preprints**

**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.

### Talks & Panels

Rose-Hulman Undergraduate Mathematics Conference 2022 (externally reviewed).

23<sup>rd</sup> Annual Nebraska Conference for Undergraduate Women in Mathematics (link). Presentation recording available here, starting at 16:00.

### Honors & Awards

Princeton University Teaching Assistantship (Full Funding)	August 2022 - Present
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 Recipient	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 connection to the SASE national organization for 3 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

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.

Society of Women Engineers

#### Secretary, Rose-Hulman Chapter

March 2019 – March 2021

# **Teaching**

#### Teaching Assistant, Princeton University

Computer Science: An Interdisciplinary ApproachFall 2023Computer Science: An Interdisciplinary ApproachSpring 2023Computer Science: An Interdisciplinary ApproachFall 2022

#### Teaching Assistant, Rose-Hulman Institute of Technology

Introduction to Database Systems

Introduction to Database Systems

Programming Language Concepts

Introduction to Database Systems

Fall 2020

Introduction to Database Systems

Spring 2020

Introduction to Database Systems

Winter 2019-20

Introduction to Database Systems

Fall 2019

Data Structures & Algorithm Analysis

Spring 2021

#### **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

## Communication 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 (S<sub>3</sub>, Athena, Redshift, Lambda), SQL, MongoDB, Neo4J, OrientDB.

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

Version Control: Git, SVN.

Last updated: September 19, 2023