

Ruizhi “Rebecca” Luo

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EDUCATION

Emory University || (Atlanta, GA)

Spring 2022

Major: Computer Science and Economics (Finance Concentration) || Cumulative GPA: 3.8 /4.0

Relevant Course Work: Intro to Computer Science I & II; Data Structures & Algorithms; Probability & Statistics for Economists; Econometrics

TECHINICAL SKILLS

Languages: Java (proficient); SQL (proficient); R (proficient); Python (familiar); HTML (familiar); CSS (familiar); JavaScript (familiar)

Tools: R-Studio; Oracle SQL Developer; Microsoft Office; Linux; Jupyter Notebook; Adobe XD

WORK EXPERIENCE

Fidelity Investments || (Durham, NC)

Summer 2020

Technical LEAP Intern

- Utilized SQL to query a database to investigate personal investing applications impacted by low severity incidents since 2017
- Optimized methods to reduce and predict incident impact using data analysis and visualization of machine learning models in R-Studio
- Collaborated with quality assurance managers to manage data coverage platforms across 15 teams to ensure data accuracy

Emory Research Partners Program || (Atlanta, GA)

Fall 2019 – Present

Undergraduate Researcher Fellow at the Saikawa Lab

- Working to deploy air quality data in real-time to people within the Emory community through an informative website and app
- Compiled WRF-Chem to analyze the effect of canopy height on air quality in Korea and authored a user guide for lab members

National Science Foundation Research Program at Southern University || (Baton Rouge, LA)

Summer 2019

Consortium for Innovation in Manufacturing and Materials Undergraduate Researcher

- Designed and analyzed a refractory alloy ReMoNbTaV utilizing the SSOS method using the VASP package and MedeA software
- Used the Louisiana Optical Network Infrastructure and the Nano supercomputer for data transfer and calculations
- Participated in community outreach activities to encourage underrepresented minorities' participation in the STEM field

PROJECTS

Air Emory

Fall 2020- Present

- Facilitating the webpage on GitHub for the student-led air quality senior project: <https://github.com/EmoryAir/EmoryAir.github.io>
- Coordinating with local organizations and companies to organize a solar energy hackathon for college students in Georgia in 2021
- Working to partner with organizations such as Girls Who Code and Citizen Science HD to develop a solar panel phone application

College Finance and GPA Case Study

Spring 2020

- Utilized Economics Course survey to analyze correlation between student financial contribution to class absence and overall GPA
- Generated R-Markdown report with data visualization and statistical analysis: <https://rebeccaluo.info/Final-Project.html>

Personal Webpage

Summer 2019 – Present

- Learned HTML, CSS, and JavaScript to develop a personal website from scratch; constantly in progress as I advance my web design skills
- Link to webpage for my portfolios and more projects: <https://rebeccaluo.info/>

LEADERSHIP / COMMUNITY INVOLVEMENT

Emory ProgramHers

Spring 2019 – Present

Co- President & Founding Member

- Strategized advertising methods to publicize the newly founded women-in-tech organization at Emory
- Organized professional events within the female tech population of over 100 students and supervised a budget of over \$12,000
- Managed the application process for Emory's Grace Hopper Conference Scholarships with the CS faculty and fellow board members

Girls Who Code

Fall 2018 – Present

Co- President & Academic Facilitator

- Equipped 40+ middle and high school girls with technical skills to encourage female participation in technological fields
- Created lesson plans on Python, CSS, JavaScript, and HTML and led the girls to complete a semester long impact projects with GitHub
- Coordinated with Emory CS department and trained 30 + Emory volunteers to move all lessons to a virtual platform for 2020 – 2021

ADDITIONAL INFORMATION

Communities: Women of Rewriting the Code Fellowship; Hexawise Gurus; Designers Guide

Languages: Chinese-Mandarin (Fluent); English (Native); Latin (Basic translation)