

Abigail Lin

abigaillin35@gmail.com | (407) 803-1335 | <https://helloworld7-beep.github.io/>
<https://www.linkedin.com/in/abigail-lin-uf1> | <https://github.com/HelloWorld7-beep>

EDUCATION

University of Florida | B.S. Computer Science | Math Minor | *August 2022 - May 2026*

GPA: 3.76/4.00

Relevant Courses: Data Structures and Algorithms, Elementary Diff Eqs, Linear Algebra for Data Science, Intro to Numerical Analysis (Fall 2024), Operating Systems (Fall 2024)

WORK EXPERIENCE

Undergraduate Researcher *January 2024 - Present*

University of Florida | Voiniciuc Lab | Dr. Catalin Voiniciuc

- Participating in the UF AI Scholars Program for undergraduate student research. Working on how to computationally generate CSLA enzymes with programmable activities using a diffusion model.
- Programmed an e-portfolio website using html and css, linked above along with other contact information.

Research Experience for Undergraduates (REU) *May 2024 - July 2024*

University of Central Florida | Dr. Carlos Borges

- Worked as a summer research assistant for Dr. Borges as a part of the Applied Computational Mathematics REU at the University of Central Florida, funded by the National Science Foundation.
- Programmed a solver of the forward scattering problem for an object with a thin coating, and compared the results of the approximated coding via the impedance versus the transmission problem.

Research Assistant *January 2024 - May 2024*

University of Florida | Voiniciuc Lab | Dr. Catalin Voiniciuc | Moni Qiande

- Automated synthetic biology lab work using 2 Opentron OT-2 lab robots to decrease human error of pipetting and increase efficiency. Tailored Python OT-2 protocols for PCR and plasmid extraction.
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INVOLVEMENT

Phi Sigma Rho *January 2024 - Present*

- Participated in various sorority events, fostering a supportive community for women in STEM fields.
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PROJECTS

Societal and Economic Impacts of COVID Over Time (SEICOT) *March 2024 - April 2024*

- Programmed a website that queried 1,000,000+ tuples in a database using SQL in order to provide a graphic overview of the societal and economic impacts of COVID over time.
- Worked in a group of 5 members, organized group meetups and proposal documents.

Computation and Science Modeling through Making (CaSMM) *October 2023 - December 2023*

- Managed communication with the client, organized meetups, and provided weekly progress reports as Project Manager in an Agile development setting. Delegated tasks to a team of 5 which met twice weekly.
 - Developed the gamification functionality and profile pages of CASMM, a website built to aid young students in learning how to code. Worked on both the frontend and backend with React.js, Docker, and Strapi.
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SKILLS

Languages: C++, Python, Javascript, MATLAB

Tools & Frameworks: Git, SFML, React.js, Docker, Strapi

Other: Github, Microsoft Excel, Microsoft Word, Microsoft Powerpoint