

A Hyeon (Lauren) Song

Gainesville, FL

OBJECTIVE

Seeking research opportunities where I can apply my strong foundation in mathematics and interest in computational biology to contribute to projects at the intersection of computation and biomedicine. Eager to gain hands-on experiences and develop research skills in preparation for future graduate studies in this field.

EDUCATION

University of Florida, Gainesville, FL – B.S. Mathematics Jan 2025 - Dec 2026 (Expected)

University of South Florida, Tampa, FL – B.S. in Computer Science 2022 – Dec 2024
Major GPA: 3.85 / 4.0 Cumulative GPA: 3.80 / 4.0

RELEVANT COURSEWORK

Programming Organization | Probability and Statistics for Engineers | Intro to Discrete Structures | Linear Algebra I

Functions of a Complex Variable | Differential Equations for Engineers and Physical Scientists | Linear Algebra for Data Science

EXPERIENCES

DRP Mentee, University of Florida Jan 2026 – April 2026, Gainesville

- Directed Reading Program, “How to mathematically optimize drug regimens using optimal control.”

Research Student, Undergraduate Research Society Aug 2024 – April 2025, Tampa

- Conducted a systematic review comparing Cologuard vs. Colonoscopy in early colorectal cancer (CRC) detection, focusing on specificity, sensitivity, and missed adenoma rates.
- Examined clinical trial data and created performance comparison charts to evaluate both the diagnostic accuracy and economic effectiveness of computer-aided detection (CADe) technologies in colonoscopy.

Research Student, Undergraduate Research Society Oct 2023 – April 2024, Tampa

- Analyzed the potential role and effectiveness of telehealth solutions in improving access to healthcare for underserved communities, drawing parallels to financial technology in bridging economic disparities by conducting a literature review.
- Explored mobile imaging technologies and their impact on remote diagnostics, highlighting the intersection of AI-driven healthcare in promoting global health equity.

PROJECTS

Manufacturing Educational Robot April 2024, Tampa

- Led a team to design and manufacture an educational robot, contributing to the design and programming for 3D printing.
- Optimized the robot performance to meet kid-friendliness requirements while ensuring cost-effective production under a limited budget of approximately \$40.
- Balanced budget constraints and technical functionality, mirroring the need to assess cost-effective solutions in financial services and technology.

SKILLS

Technical: Microsoft Office Suite, Excel, Python, LaTeX, Thinker CAD, Blender

Languages: English, Korean