

# 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

<b>University of Florida</b> , Gainesville, FL – B.S. Mathematics	Jan 2025 - Dec 2026 (Expected)
<b>University of South Florida</b> , Tampa, FL – B.S. in Computer Science Major GPA: 3.85 / 4.0 Cumulative GPA: 3.80 / 4.0	2022 – Dec 2024

## RELEVANT COURSEWORK

Programming Organization | Probability and Statistics for Engineers | Intro to Discrete Structures | Linear Algebra 1  
Functions of a Complex Variable | Differential Equations for Engineers and Physical Scientists | Linear Algebra for Data Science

## EXPERIENCES

<b>DRP Mentee</b> , University of Florida	Jan 2026 – April 2026, Gainesville
• Directed Reading Program, “How to mathematically optimize drug regimens using optimal control.”	
<b>Research Student</b> , 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.	
<b>Research Student</b> , 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

<b>Manufacturing Educational Robot</b>	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