

Alyssa Lee

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EDUCATION

Carnegie Mellon University – School of Computer Science | Pittsburgh, PA | Graduating May 2024

B.S. in Computational Biology

GPA: 3.96

Coursework: Algorithms & Data Structures • Machine Learning • Theoretical Computer Science • Computer Systems • Computational Genomics • Biological Modeling & Simulation • Molecular Biology • Cell Biology

The Coastal & Ocean Studies Program of Williams College & Mystic Seaport Museum

Williams College | Mystic, CT | Jan 2024 – May 2024

- Semester-long interdisciplinary study of the science, history, policy, and literature of the oceans
- Students take courses, conduct original research, and go on three field seminars

EXPERIENCE

Nonclinical Research & Development Intern – Bristol Myers Squibb | Remote | Jun 2023 – Aug 2023

- Developed streamlined pipeline in R to perform cross-study analyses of preclinical toxicology data
- Collaborated with scientists and statisticians to develop informative and statistically sound methods
- Analyzed studies from multiple sites to identify drug vehicle components that have a statistically significant effect on clinical pathology parameters

Undergraduate Research Assistant – Carnegie Mellon University | Pittsburgh, PA | Sep 2022 – May 2023

- Benchmarked novel machine learning method for predicting gene regulatory networks from single-cell RNA-seq data against established methods
- Tested various graph neural network approaches to predicting transcriptional outcome of CRISPR/Cas9-mediated gene knockout

Software Engineer Intern – CNH Industrial | Burr Ridge, IL | May 2022 – Aug 2022

- Developed integrated web portal for customer support team to easily access data previously accessible only via several different platforms
- Built application using React.js (Javascript/HTML/CSS) and .NET (C#)

SKILLS

Programming Languages: Python • R • C • C# • Java • JavaScript • HTML/CSS • SQL

Frameworks/Libraries: React.js • .NET • PyTorch • NumPy • Pandas • Tidyverse

Tools: Git • GitHub • Jupyter Notebooks

ACTIVITIES/HONORS

Co-President – Undergraduate Computational Biology Society

Dean's List with High Honors – CMU School of Computer Science