

Melissa Ham

Orono, Maine

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Education:

University of Maine (Expected Graduation, May 2023)

- B.S in Biomedical Engineering
 - Minor in Physics
- Cumulative GPA of 3.3

Research Experience:

Presenter, Northeast Bioengineering Conference – New York, NY – April 2022

- Presented a research poster at this conference to illustrate a redesign of a previous lab experiment in the biomedical engineering curriculum that analyzed the diffusion of a simulated drug through a hydrogel using image analysis rather than UV-Vis spectroscopy

Intern, CompuMAINE Lab – Orono, Maine – November 2020 to present

- Use of ImageJ to create masks of mammograms for further analysis by peers
 - Analysis of composite breast images to compare with text format to compare and contrast density values visually and quantitatively
- Engagement in the computational analysis of image data using R
- Investigation of novel programs and ideas designed by peers, such as a TCL program known as XSmurf
- Perform regular updates of the CompuMAINE website using Wordpress

Other Experience:

Student Technician, UMaine IT Support Center – Orono, Maine – October 2019 to present

- Provides tier one tech support to university students and staff and accepts phone calls
- Assists with walk-in tech support and troubleshooting personal devices

Participant, Linux Training – Remote – Summer 2022

- Participated in an informal Linux training conducted by the CompuMAINE lab over the course of the summer months, which cultivated an understanding of the Shell environment

Skills:

- Familiar with COMSOL, LabView, Shell, and Wordpress
- Proficient in ImageJ and R
- Experienced with GSuite and Microsoft Office products
- Knowledgeable in laboratory settings
- Proficient in data analysis
- Familiar with patent searching and terminology