

Mavis Murdock

Computer Science PhD Candidate

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Education

- Expected 2027 **Tufts University**, *PhD, Computer Science*, Medford, MA.
Advisor: Elaine Short
Research Assistant (AABL Lab)
- May 2024 **Tufts University**, *M.S., Computer Science*, Medford, MA.
- May 2022 **Mount Holyoke College**, *B.A. Computer Science and Classics*, South Hadley, MA.

Publications

- RESPECT 2025 **Mavis Murdock**, Katherine H. Allen, Elaine Schaertl Short. "Empowering Disabled Engineers through Accessible Co-Curricular Activities". *ACM SIGCSE Conference for Research on Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT)*, Newark, New Jersey, 2025
- ASSETS 2024 **Mavis Murdock**, Elaine Schaertl Short. "Accessibility and Robotics Education". *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), Workshop on Teaching Accessibility in Different Disciplines: Topics, Approaches, Resources, Challenges*, Saint John's, NL, CA, 2024
- HRI 2024 Isaac Sheidlower, **Mavis Murdock**, Emma Bethel, Reuben M. Aronson, Elaine Schaertl Short. "Online Behavior Modification for Expressive User Control of RL-Trained Robots". *ACM/IEEE Conference on Human-Robot Interaction (HRI)*, Boulder CO, 2024

Research

- 2022 - **Research Assistant (AABL Lab)**, *Tufts University*, Medford MA.
- Summer 2021 **Research Experience for Undergraduates (Cybersecurity)**, *New Mexico Tech*, Socorro, NM.
◦ Employed ML techniques for botnet detection

Teaching/Outreach

Instructor

- Summer 2024, 2025 **Data Structures**, *Computer Science Department*, Tufts University.

TA/Mentor

- Spring 2024 **Robotics Teaching Lab**, *Computer Science Department*, Tufts University.
- Fall 2023 **Intro to Human-Robot Interaction**.
- Spring 2023 **Probabilistic Robotics**.
- Spring 2022 **Operating Systems**, *Computer Science Department*, Mount Holyoke College.
- Fall 2021 **Computer Science Peer Mentor**.
- Spring 2021 **Java Programming Language**.

Outreach

- 2025 **Robotics Workshop**, *Girl Scouts*.
- 2023 **RoboBoston**, *Annual Block Party*.

Professional Service

Leadership

- 2025 - **President**, *ACM-W*, Tufts University.
- 2023 - 2025 **Social Co-Chair**.

Organizer/Co-organizer

- Fall 2024 - **Accessibility Reading Group**.
- Fall 2024 **AccessComputing Graduate School Application Workshop**.
- Fall 2024 **ACM-W Resume Workshop**.

Reviewer

- 2023 **ACM/IEEE International Conference on Human-Robot Interaction (HRI)**.
- 2025 **International Conference on Robot and Human Interactive Communication (RO-MAN)**.

Honors and Awards

- 2025 **RESPECT Doctoral Consortium**.
- 2018 - 2022 **Leadership Award**.
- 2019 - 2022 **Patricia Ray '75 Endowed Scholarship (Classics)**.
- 2021 **Eta Sigma Phi (Classics)**.

Technical Experience/Projects

Technical

- 2019 - 2022 **Senior Web Programmer**, *Library and Technology Services*, Mount Holyoke College.
- 2020 **Webmaster**, *HackHolyoke 2020*, Mount Holyoke College.

Independent Projects

- 2020 **Mr. Meter Machine**, *Classics Department*, Mount Holyoke College.
 - o Built web tool for teaching Ancient Greek scansion to students

Participation

- 2023 **Grad Cohort for Women**, *Computing Research Association (CRA-WP)*.
- Summer 2020 **REBLS (Researchers, Educators, Business Leaders and Students) Summer Leadership Academy**, *University of Massachusetts Amherst*.

Extracurriculars

- 2024 - **Hiking/Backpacking Leader**, *Appalachian Mountain Club*, Boston Chapter.
 - o SOLO Wilderness First Aid Certified
 - o SOLO Infant/Professional CPR Certified