

Jeremy Welsh-Kavan

Email : jeremy@micromelody.net

Mobile : +1 (503) 890-1543

Linkedin: www.linkedin.com/in/jeremy-welsh

EDUCATION

- **Master of Science, Physics** Sep 2020 - Jun 2022
University of Oregon Eugene, OR
- **Bachelor of Science, Mathematics and Physics** Sep 2016 - June 2020
University of Oregon Eugene, OR

WORK EXPERIENCE

- **Senior Intern** Jun 2022 – Jun 2023
Thermo Fisher Scientific Remote
 - ◊ Worked on a team of scientists to develop advanced technology for Thermo Fisher Scientific's Focused Ion Beam technology and related software.
 - ◊ Developed code for data analysis workflows and data visualization to inform critical decisions about technology design and development.
- **Graduate Teaching Assistant** Mar 2022 - Jun 2022
University of Oregon Eugene, OR
 - ◊ Instructed and graded coursework for tutorials and labs in undergraduate physics courses covering electricity and magnetism, circuitry, and Newtonian mechanics.
- **Graduate Research Assistant** Sep 2020 – Mar 2022
University of Oregon Eugene, OR
 - ◊ Conducted individual and collaborative research in computational molecular biophysics
 - ◊ Mentored undergraduate and graduate research assistants on projects related to molecular coarse-graining schemes and simulation data analysis.
- **Library Student Assistant** Sep 2017 - Jun 2022
University of Oregon Eugene, OR
 - ◊ Trained library student employees on techniques for tutoring elementary and advanced mathematical topics and concepts.
 - ◊ Assisted library patrons with use of library services and systems.

VOLUNTEER WORK

- **Volunteer Teaching Assistant** Sep 2021 - Mar 2022
Eugene Math Circle Eugene, OR
 - ◊ Taught elementary school children advanced topics in math and logic.
- **Camp Counselor** Jul 2016
Dharma Rain Zen Center Portland, OR
 - ◊ Supervised children aged 10-18 for a week long overnight summer camp.

TECHNICAL SKILLS

- **Workplace Tools:** Microsoft Office (Teams, Outlook, Excel, etc.), Zoom, Slack, Discord, Github/Gitlab, L^AT_EX
- **Programming Languages:** Python, Fortran, R, Shell scripting (Unix/Linux/macOS)

AWARDS AND HONORS

- Departmental Honors in Physics (Undergraduate)
- Latin Honors, Cum Laude (Undergraduate)
- Phi Beta Kappa Honors Society