

Theodora Brewer

E-mail: theodora.brewer@gmail.com

Education

Corvallis High School, Corvallis, Oregon, 2016-2020
Relevant coursework: Physics, AP Calculus AB, AP Statistics, Biology, Chemistry

Willamette University, Salem, Oregon, 2020-2024
Bachelor of Science: Physics & Computer Science
Relevant coursework: Multivariable Calculus, Intro to Programming with Python, Foundations of Advanced Math, Data Structures, Software Development, Introduction to Machine Learning, Networks and Systems

Work History and Experience

Lifeguard, Osborn Aquatic Center, April 2017 - April 2021

- Watched over 50+ Patrons and their well-being in and around the water
- Oversaw the safe operation of water attractions, such as the waterslide and lazy river safety, ensuring proper usage and adherence to facility rules
- Maintained vigilance through active scanning of assigned zones, minimizing risks and preventing incidents
- Delivered exceptional customer service by answering questions, resolving concerns, and assisting guests with facility information
- Participated in ongoing training sessions to remain proficient in lifesaving techniques and emergency procedures
- Collaborated with a team of lifeguards to uphold safety protocols and ensure a safe environment for all patrons

Lifeguard, Corvallis Country Club, May 2020 - September 2020

- Enforced rules to keep patrons safe while monitoring their wellbeing
- Checked the pH level of the pool to ensure water safety and compliance with health standards

Swim Instructor, Osborn Aquatic Center, May 2020-August 2020

- Taught swim lessons to children aged 2-10 in groups of up to 5, adapting instruction to suit various skill levels and learning styles
- Provided clear demonstrations and instructions to help students understand proper swimming techniques
- Collaborated with other swim instructors and staff to ensure smooth operations and a consistent learning experience
- Promoted water safety and effective swim practices
- Evaluated student progress and communicated performance updates to parents and guardians regularly

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Pre orientation Steppin out leader, Willamette University April 2021-August 2022

- Co-lead and facilitated outdoor activities including hiking, camping, and team building exercises to foster community among incoming college students
- Collaborated with other leaders to coordinate fun activities for participants and monitor their safety
- Organized and coordinated logistics for outdoor excursions including route planning, equipment distribution, and meal preparation
- Ensured the safety and well-being of participants by enforcing guidelines and maintaining awareness of environmental conditions
- Documented program activities and participant feedback to support future program improvements
- Cultivated leadership and problem-solving skills by adapting to dynamic outdoor environments and addressing challenges proactively
- Assisted in conflict resolution and facilitated group discussions to enhance communication and teamwork

Embedded Tutor for Physics, Willamette University, September 2021-May 2022

- Sat in on classes and took notes for students who may have missed class
- Held office hours once or twice a week where students could receive help with understanding the material

IT help desk Technician, Willamette University, August 2021-May 2024

- Answered phone calls and assisted customers with technical issues
- Monitored, assigned, and resolved help desk tickets efficiently, ensuring timely solutions to technical problems and appropriate delegation to corresponding teams
- Delivered various equipment for events and assisted with setups and breakdowns of equipment

Physics Tutor, Willamette University, September 2022-May 2023

- Was available 4-5 hours a week to assist students with their homework, assignments, exam preparation, or understanding of the material
- Helped students build confidence in their problem-solving abilities
- Cultivated a positive, encouraging environment to motivate students and inspire a passion for learning physics
- Reviewed and reinforced key physics formulas, equations, and problem solving techniques to improve students' critical thinking and analytical skills
- Reviewed the material before holding office hours to be prepared to assist students

Dog Walker, Rover, April 2022-September 2022

- Met with owners before the first walk to gain an understanding of their requirements
- Took dogs on walks for 30 minutes including picking up after them and maintaining any training the owners requested

Retail Associate, Panera Bread, June 2022-Sept 2022

- Prepared food and ensured accurate orders

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- Ensured sanitation and cleanliness around the kitchen adhering to health and safety regulations

Small Business Owner, *Mystic Wolf Pins*,

February 2023-Present

- Designed and created enamel pins, ensuring high quality craftsmanship and attention to detail
- Managed all aspects of small business operations, including product development, marketing, inventory management, customer relations, and order fulfillment
- Built and maintained multiple e-commerce platforms to showcase and sell products, driving online sales growth
- Collaborated with suppliers and manufacturers to produce products, ensuring timely delivery and product quality
- Provide excellent customer service by addressing inquiries, resolving issues, and fulfilling orders promptly
- Organized and participated in local pin events to increase brand exposure and connect with the community
- Managed budgeting and financial records to ensure sustainable business growth

WITS Technical Assistant, *Willamette University*,

May 2023-May 2024

- Assisted with installation of technology and equipment in 35-40 classrooms
- Respond to classroom tech emergencies
- Learn new operating systems such as Linux and work to improve customer experience
- Documented technical processes and solutions to streamline future troubleshooting efforts
- Ensured adherence to IT policies and procedures to maintain data security and operational compliance
- Assisted in the deployment and maintenance of network infrastructure, including routers, switches, access points, and wireless systems
- Installed, configured, and maintained computer systems, peripherals, and software applications in accordance with company standards

Volunteer Experience

Stage Manager, Ashbrook Independent School, Corvallis, OR,

2017-2020

- Served as the stage manager and assistant director for the annual pre-kindergarten through eighth, spring play
- Managed up to six students working as crew members in three separate productions
- Collaborated with a production crew of ten to design, visualize, and operate the production

Volunteer, Heartland Humane Society, Corvallis, OR,

2014-2015

- Walked 5+ dogs around a nearby park and worked on socialization with people and other animals during the summer
- Ensured sanitation around the facility including, but not limited to, cleaning dog kennels, washing towels and blankets, and cleaning food and water bowls.

Assistant Swim Instructor, Osborn Aquatic Center, Corvallis, OR

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Research Experience

Fluid Dynamics, *Willamette University*, Summer 2021

Oil Water Separation, *Willamette University*, August 2021-May 2024

Relevant Skills

Use 3d modeling software (Basic understanding using Onshape)

3d printing

Computer programming: Python, C++, R

Microsoft suite (word, excel, etc.)

Certifications

Wilderness/Remote First aid (expired)

Adult and Pediatric CPR/AED (expired)

Babysitter

Lifeguard (expired)

Waterpark Skills (expired)

Food Handlers (Expires 5/29/2025)

Certifications

Project Management Course Completion

Digital Marketing Fundamentals

Data Camp Course Completion

Driver - Safety HE

Presentations

Improving a Shaker System for Bouncing Droplet Experiments, oral presentation,
Willamette University SCRP Symposium, Fall 2021

Differences Between Input and Output Impedance and their Affect on a Circuit, poster
presentation, Willamette University, Spring 2021

2021 Willamette University SSRD, Spring 2022

Crops & Clicks A Click-Based Farming Game, oral presentation, Willamette University
SSRD, Spring 2023

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Furry Friends Forcast Analyzing the Effect of Breed and Characteristics on Shelter Animal Adoption Rates, oral presentation, Willamette University SSRD, Spring 2023
SCUDEM VIII 2023 Problem C: Dog Cannot Catch, oral presentation, SCUDEM, Fall 2023
Exploring Laser-Ablated Mesh for Enhanced Oil–Water Separation: Innovations in Environmental Remediation, oral presentation, Willamette University SSRD, Spring 2024

Personal Achievements

Personal poem published in “Together 2020 Collection”

[Google Books](#)

[Library of Poetry](#)

Mention in a published article

[Google Scholar](#)

[adsabs site](#)

[American Physical Society](#)

Outstanding Award Team modeling project SCUDEM

[Youtube Video of Presentation](#)

Personal Interests

Band: Flute

Bass and alto flute

Jazz and marching band: Tenor saxophone

Swimming

Horseback Riding

Extracurricular activities

Green Club, Corvallis High School’s environmental activism club, Corvallis, Oregon, 2019-2020

- Collaborated with club members to organize events (i.e. Climate Strike), and participated in climate change protests.
- Helped advocate for composting, and raise awareness about sustainability.

Swim Team, Willamette University, 2020-2021

Swim Team, Corvallis High School, 2016-2020

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- Letter (4 years) and participated in State Swim meet
- Co-team captain senior year

Wind Ensemble , Corvallis High School, Played flute in State band competition,	2016-2020
Wind Ensemble , Willamette University,	2020-2022
University Concert Band , Willamette University,	2022-2024
Flute Ensemble , Willamette University,	2023-2023
Jazz Band , Corvallis, OR,	2017-2020
Physics Club , Willamette University,	2021-2024
Physics Club (President) , Willamette University,	2022-2024