

# Theodora Brewer

E-mail: tcbrewer@willamette.edu

## Education

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**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/or Experience

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**Lifeguard, Osborn Aquatic Center,** April 2017 - April 2021  
· Watched over 50+ Patrons and their well-being  
· Oversaw waterslide and lazy river safety

**Lifeguard, Corvallis Country Club,** May 2020 - September 2020  
· Enforced rules to keep patrons safe  
· Checked pH level of the pool to ensure water safety

**Swim Instructor, Osborn Aquatic Center,** May 2020-April 2020  
· Taught swim lessons to children aged 2-10 in groups of up to 5  
· Provided student feedback on swimming techniques and practices

**Pre orientation Steppin out leader, Willamette University** April 2021-2022  
· Co-Lead group hikes for a pre orientation program consisting of incoming freshman  
· Collaborated with other leaders to coordinate fun activities for participants and monitor their safety

**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,** May 2021-Present  
· Answered phone calls and assisted customers with technical issues  
· Created and assigned help desk tickets to their 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 or understanding of the material

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- Reviewed the material before holding office hours in order to be prepared to assist students

## **Dog walker, Rover,**

April 2022-September 2022

- Met with owners prior to first walk to gain 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, Salem, OR,**

June 2022-Sept 2022

- Prepared food and ensured accurate orders
- Ensured sanitation and cleanliness around kitchen

## **WITS Technical Assistant, Willamette University,**

May 2023-Present

- Assisted with installation of technology and equipment in 35-40 classrooms
- Respond to classroom tech emergencies
- Prep new computers and devices for deployment by reimaging
- Learn new operating systems such as Linux and work to improve customer experience

## **Volunteer Experience**

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### **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 in order 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**

## **Research Experience**

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Fluid Dynamics, *Willamette University*, Summer 2021

Laser ablation, *Willamette University*, August 2021-present

## **Relevant Skills**

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Use 3d modeling software (Basic understanding using Onshape)

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3d printing  
Computer programming: Python, Arduino (c++)  
Microsoft suite (word, excel, etc.)

## Certifications

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Wilderness/Remote First aid (expired)  
CPR (expired)  
Babysitter  
Lifeguard (expired)

## Presentations

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2021 Willamette University SCRP Symposium  
2021 Willamette University SSRD  
2023 Willamette University SSRD

## Personal Achievements

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Personal poem published in “Together 2020 Collection”  
<https://books.google.com/books/about/Together.html?id=RpzdzQEACAAJ>  
<https://www.libraryofpoetry.com/together>  
Mention in a published article  
<https://ui.adsabs.harvard.edu/abs/2021APS..DFDQ10002B/abstract>  
[https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=paWCJSMAAAAJ&citation\\_for\\_view=paWCJSMAAAAJ:M3ejUd6NZC8C](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=paWCJSMAAAAJ&citation_for_view=paWCJSMAAAAJ:M3ejUd6NZC8C)  
<https://ui.adsabs.harvard.edu/abs/2021APS..DFDQ10002B/abstract>  
<https://meetings.aps.org/Meeting/DFD21/Session/Q10.2>

## Personal Interests

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Band: Flute  
Bass and alto flute  
Jazz and marching band: Tenor saxophone  
Swimming

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Horseback Riding

## Extracurricular activities

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<b>Green Club</b> , 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.	
<b>Swim Team</b> , Willamette University,	2020-2021
<b>Swim Team</b> , Corvallis High School,	2016-2020
· Letter (4 years) and participated in State Swim meet	
· Co-team captain senior year	
<b>Wind Ensemble</b> , Corvallis High School, Played flute in State band competition,	2016-2020
<b>Wind Ensemble</b> , Willamette University,	2020-2022
<b>University Concert Band</b> , Willamette University,	2022-Present
<b>Flute Ensemble</b> , Willamette University,	2023-Present
<b>Jazz Band</b> , Corvallis, OR,	2017-2020
<b>Physics Club</b> , Willamette University,	2021-Present
<b>Physics Club (President)</b> , Willamette University,	2022-Present