# Natalie Robison

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Education	
Portland State University	Fall 2021 – Current
Major: Biology Minor: Interdisciplinary Neuroscience	
Cumulative GPA: 3.87	
<ul> <li>Expected Graduation with Honors: Spring 2024</li> </ul>	
Clackamas Community College	Fall 2019 – Spring 2022
Major: Transfer Degree	, an 2010 - Opinig 2022
Focus: Biology	
Transfer GPA: 3.86	
Research Experience	
Portland State University	June 2022 – Current
<ul> <li>Undergraduate Research Assistant, Stipend-Supported</li> <li>Advisor: Dr. Carolyn Quam</li> </ul>	8 Full-Time Months at 10-30 hrs./wk.
Explore the causes and mechanisms of bilingual language at and processing, using a combination of eye-tracking, sur-	
Quantitative Data Collection	
<ul> <li>eye-tracked data as they progress through an automated p</li> <li>Troubleshoot software errors and thoroughly document sol</li> <li>Verbally administer a Multilingual Naming Test (MiNT) to m</li> <li>Administer a modified Bilingual Dominance Scale to measu</li> <li>Qualitative Data Collection</li> </ul>	utions leasure language dominance
<ul> <li>Facilitate completion of a survey asking respondents about</li> </ul>	t their experiences with
racism, the COVID-19 pandemic, and their possible impact	
Answer questions subjects may have about the survey as	they complete it
<u>SPSS Statistics Data Analysis</u>	
<ul> <li>Use Principal Component Analysis to combine measures or single, continuous measurement</li> </ul>	or language dominance into a
<ul> <li>Conduct ANOVA, ANCOVA, and T-Tests to determine relat</li> </ul>	ionship(s) between variables.
Vowel assimilability, trial type, language dominance, accura	
Effectively communicated the findings to peers in the scient	
session and slideshow presentation	
IRB & Participant Recruitment	
<ul> <li>Designed IRB-approved participant recruitment flyers for two Utilities community comparations to participant with the participant.</li> </ul>	
<ul> <li>Utilize community connections to gather participants with u</li> <li>Advertise study recruitment via email lists, classroom/depa</li> </ul>	
<ul> <li>Advertise study recruitment via email lists, classroom/depa flyers posted in academic and non-academic locations aro</li> </ul>	
Deviced a digital tracking system to plan manage, revise of	

• Devised a digital tracking system to plan, manage, revise ongoing recruitment efforts <u>Project Team leadership</u>

- Hosted weekly meetings to monitor progress, delegate tasks, and maximize efficiency
- Trained new team members on experimental procedures
- Drafted training protocols for future self-sufficiency
- Served as interim lab manager by hosting weekly lab-wide meetings, coordinating inter-team communication, and maintaining structural organization of laboratory protocols

#### Laboratory committees

- Disability Advocacy Committee (Leading Member)
  - Studied rules and regulations on accessibility features of public-facing materials
  - Evaluated the laboratory's public-facing platforms to ensure accessibility standards were met
- Social Committee (Leading Member)
  - Plan lab-wise social events such as end-of-year celebrations and casual coffee check-ins
  - Gathered & distributed academic resources on burnout as a social-biological syndrome within various, intersectional contexts
  - Facilitated group discussions on intersectional academic boundaries
- Journal Club (Leading Member)

**Teaching Assistant**, Portland State University

• Facilitated group discussions analyzing academic literature

# Teaching and Mentoring Experience

Spring 2023 – Current

PSY-347: Perception, an introduction to sensory systems. Core requirement for the PSU Interdisciplinary Neuroscience minor. Volunteer position under Bill Griesar and Jeff Leake, co-founders of NW Noggin, a neuroscience outreach nonprofit.

• 3-7 hours per week for one academic year

# **Classroom Management**

- Grade student assignments and exams
- Answer questions on class assignments, course structure, grading concerns
- Recorded live and virtual classes and provided students with timely access to recordings Academic Support
  - Led weekly review sessions for students
    - Developed review materials to prepare students for exams and assignments
- Provided direct academic support to students who demonstrated a high level of need Administrative Responsibility
  - Provide accommodations to students with disabilities
  - Moderate gradebook entries and publish grades to students and administration
  - Identified students needing academic support or intervention to fulfill PSU's Initiation of Attendance and Early-Alert requirements

# Mentor, Math & Science Tutor, Portland Tutor Doctor

- 2-4 hours per week for 9 months
- Work one-on-one with high school students to develop their understanding of course content, study skills, and their self-perception as academics
- Transitioned to a mentorship position, helping define & develop long-term academic goals based on passions and skills

Math & Science Tutor, Clackamas Community College October 2021 – August 2022

- 6-20 hours per week for 10 months
- Worked one-on-one with students to build study habits and deepen course knowledge
- Led a weekly study group for students taking Algebra (Math 111)
- Performance evaluated per term, including review of recorded tutoring sessions
- Identified as particularly supportive to students with disabilities

# Presentations

Robison, N. & Quam, C., (March 2024). Second Language Impacts on First Language Processing. Poster presented at the Society for Neuroscience Oregon/SW Washington Chapter Meeting (Troutdale, OR).

May 2023 – Current

- Robison, N. & Quam, C., (September 2023). Second Language Impacts on First Language Processing. Poster presented at the Portland State University Student Research Symposium (Portland, OR).
- **Robison, N.,** (September 2023). *Second Language Impacts on First Language Processing.* Slideshow presented at the Portland State University Student Research Symposium.
- Robison, N., Lin, A., & Quam, C., (26 April 2023). Virtual poster session at the *Scholars Transforming through Research* Spring Online Showcase.
- Robison, N., Lin, A., & Quam, C., (May 2023). Video abstract submitted for the *Scholars Transforming through Research* Spring Online Showcase.

Undergraduate Thesis

**Robison, N.,** (*Expected June 2023*, advisor Carolyn Quam) "Attrition & Assimilation: Neural mechanisms of English-Mandarin Chinese bilingualism". *University Honors Theses*.

Non-Refereed Publications

**Robison, N., (**December 2023). "A Brain Without Glia: Navigating Neuroscience Without Structural Support" *NWNoggin*, https://nwnoggin.org/2023/12/11/a-brain-without-glia/

# **Skills & Certifications**

# Laboratory

- IRB Fluency & Participant Recruitment
  - Develop IRB amendments to revise active protocols
  - Design flyers to recruit participants from a particular demographic
  - Interpret IRB language to guide flyer placement in the Portland metro area
  - Utilize community connections to identify locations/events prime for recruitment
  - Screen potential participants for qualification to participate in the study
  - Develop digital recruitment materials for use in classroom announcements, academic programs, and other forms of outreach
- Grant writing

# Software

- SR Research Eye-Tracking (advanced): EyeLink, ExperimentBuilder
  - Calibrate the eye tracker to human subjects
  - Deploy the experimental program and monitor the subject's progress
  - Troubleshoot errors in calibration and the experimental program
  - Export data for back-ups and analysis
- Praat: Acoustic analysis software
  - Find the formants, intensity (decibels), and pitch (hertz) of audio files
  - Create custom scripts to extract data from large numbers of files
- IBM SPSS Statistics
- Coding: C++, Praat Scripts
- Adobe (advanced): Photoshop, Illustrator
- Microsoft Office (advanced): Excel, Word, PowerPoint, Access
- Zotero (advanced)

# Certifications

- FERPA Trained
- Human-Subjects Trained: CITI Certification
- Academic Activity

# BUILD EXITO

September 2021 – September 2023

- Selected through a competitive application and interview process while at Clackamas Community College
- Received training on how scientific research is conducted at the systemic level

- Underwent mentoring and personal development sessions to develop my personal identity and career plans
- These activities continued upon transfer to Portland State University with the addition of stipend-supported participation in undergraduate research

#### **URISE** at Portland State University

September 2023 – Current

February 2024

- Highly selective program with a cohort of 8 students
  Identified as a particularly successful BUILD EXITO scholar in September 2023 and transferred to the URISE program, representing the first such scholar "promotion"
- Mentoring and personal development sessions now personalized to terminal degree aspirations, concurrent with continued stipend-supported laboratory research

#### Advocacy

#### Oregon Senate Testimonial

Alongside neuroscience outreach group Northwest Noggin, provided testimony to the Oregon Senate twice in support of abolishing Daylight Savings Time, in favor of Permanent Standard Time.

- First testimony provided in-person, by invitation, on February 6th to the Oregon Senate Committee on Veterans, Emergency Management, Federal and World Affairs
- Second testimony provided virtually on February 22nd to the Oregon Senate's public hearing regarding the bill (SB 1548)
- Testimonial detailed the personal impact of Daylight Savings Time on myself as an individual with a circadian rhythm disorder, as well as how Permanent Standard Time enables more effective treatment for hormone-based disorders

# **Disability Rights Advocacy**

#### Spring 2023 – December 2023

Student representative on the selection committee for the Director of the Disability Resource Center at Portland State University.

- Recommended for the position based on my prior advocacy which resulted in a policy change in favor of increasing equity for students with disabilities
- Identify the needs and concerns of the community which the center serves
- Review best practices to reduce implicit bias during applicant review
- Conduct interviews and evaluate systematically to select applicant to recommend

# Policy Advocacy Training

# October 2022 – April 2023

Scholars Transforming through Research, a national program under the Council on Undergraduate Research to develop collaboration between science and policy-making.

- Selected via a competitive application process
- Traveled to Alexandria, VA for initial training and to network with the national cohort
- Monthly virtual training on providing evidence-based solutions to policy-making processes
  - Op-ed writing
  - Establishing working relationships with legislators, representatives
- Program supported by the National Institute of Health and the National Science Foundation; personal participation sponsored by the Portland State University Department of Research and Graduate Studies & the BUILD EXITO Program

# Honors & Awards

- University Honors: Fall 2021 Current
- Wessinger Foundation Honors Scholarship
- President's List (Fall 2022, Spring 2023, Fall 2023)
- Dean's List (Winter 2023)
- Phi Kappa Phi Honor Society (Invited)
- Phi Theta Kappa Honor Society (Initiated)

Portland State University Clackamas Community College