

Roderick Fish

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RESEARCH INTERESTS

Genomics and proteomics with emphasis on cancer genetics and precision oncology; integrative analysis of gene regulation, signaling pathways, and tumor progression; translational applications of computational biology to biomarker discovery and therapeutic response; bioinformatics and AI-driven methods for biomedicine; computational modeling of complex biological systems; comparative neural systems and mechanisms in vertebrates and marine invertebrates.

EDUCATION

BS	Bachelor of Science, Molecular, Cellular, and Developmental Biology (Honors), University of Washington—Seattle (in progress)	2024–2027
MA	Master of Arts, Linguistics, Trinity Western University	2020
BA	Bachelor of Arts, Music, Union Bible College	2006

RESEARCH EXPERIENCE

Undergraduate Research Project Participant, Biology Department, Cascadia College (2024)

Conducted experimental inoculation studies examining the effects of *Rhizobium leguminosarum* on three legume species (*Pisum sativum*, *Cicer arietinum*, *Vigna unguiculata*); monitored plant growth and collected comparative data.

Undergraduate Research Assistant / Animal Care Technician (one semester), Centre for Wildlife Ecology, Department of Biological Sciences, Simon Fraser University (2018)

Provided animal care and research support for the Ruff Project (*Philomachus pugnax*) and the Marbled Murrelet Project (*Brachyramphus marmoratus*); performed husbandry tasks, data recording, and ensured adherence to animal care and ethical research protocols; Supervisor: Dr. David Lank.

PUBLICATIONS

Fish, R. 2020. *Swahili conditional constructions in embodied Frames of Reference: Modeling semantics, pragmatics, and context-sensitivity in UML mental spaces*. Master's thesis, Trinity Western University. <https://doi.org/10.13140/RG.2.2.25626.18880/2>

PRESENTATIONS AND POSTERS

Fish, R., Garcia, L., & Glasnovich, K. 2024. *Effects of Rhizobium on three pea species*. Poster presented at Cascadia College.

Fish, R. 2017. *Swahili conditional constructions in embodied Frames of Reference: Modeling semantics, pragmatics, and context-sensitivity in UML mental spaces*. Presented at the Three Minute Thesis Competition, Trinity Western University; event co-sponsor: University of Queensland.

Fish, R. 2016. *Audio data acquisition: Making quality field recordings*. Presented at Trinity Western University.

Fish, R. 2015. *A preliminary analysis of aspect and tense in Gɔnja*. Presented at the Gɔnja Mini Conference, Trinity Western University.

HONORS AND AWARDS

Honor / Award	Amount	Year(s)
Dean's List, University of Washington—Autumn 2024, Spring 2025	—	2024–2025
Cascadia Scholars Mentorship and Scholarship Program, Cascadia College	\$750	2023–2024
Semifinalist, Science, Mathematics, and Research for Transformation (SMART) Scholarship-for-Service Program, U.S. Department of Defense	—	2022
Dean's List, Ivy Tech Community College	—	2021–2022
Clear Skies Scholarship, Ivy Tech Community College	\$2,500	2022

LEADERSHIP, OUTREACH, AND SERVICE

Work-Study Office Assistant, External Relations and Planning, Cascadia College (2023–2024)

Provided administrative and communications support for External Relations and Planning, including email and in-person inquiries; coordinated and tracked promotional materials inventory and assisted with campus signage maintenance; supported outreach activities, including campus tours, college fairs, and accessibility captioning for promotional videos; Supervisor: Sara Gomez Taylor.

Indiana North Regional Vice President, Phi Theta Kappa International Honor Society (2022–2023)

Represented the Indiana region at the PTK Catalyst International Conference (Denver, CO); coordinated statewide initiatives promoting completion of PTK online workforce and transfer coursework; assisted with regional member induction ceremonies and chapter events; developed leadership, organizational, executive communication, and cross-cultural collaboration skills.

Vice President of Membership, Alpha Omega Delta Chapter, Phi Theta Kappa International Honor Society, Ivy Tech Community College, Anderson, IN (2022–2023)

Planned and hosted chapter induction ceremonies and member events, including the Spring 2022 induction; organized chapter activities benefiting members, students, and the Madison County community; supported membership engagement through outreach and event coordination.

Professional Audio Engineer / Systems Design Consultant (1999–present)

Provided pro bono audio engineering and systems design services for non-profit organizations in the United States and Canada; designed, installed, and operated professional audio systems for choral, orchestral, and vocal performances; trained and mentored early-career audio engineers; supported collegiate performances, including annual choral concerts at the Indiana State House (2002–2005).

Urban Community Assistance Volunteer, Indianapolis, IN (1999–2005)

Assisted with meal service and needs-based social support at inner-city missions (8–12 hours per week).

TEACHING EXPERIENCE

Teaching Assistant, Trinity Western University (2017)

Semantics and Pragmatics—undergraduate/graduate course (one semester)

Teaching Assistant, Trinity Western University (2016)

Advanced Field Methods—graduate course (one semester)

Teaching Assistant, Trinity Western University (2015)
Language and Society—undergraduate course (two semesters)

TECHNICAL SKILLS / LABORATORY TECHNIQUES / CODING

Molecular and analytical techniques: polymerase chain reaction (PCR); SDS–PAGE; Western blotting; spectrophotometry; chromatography; microscopy; cell culture; gel staining.

Laboratory practices: sample preparation; titration; quality control; laboratory safety protocols; basic data analysis; scientific writing.

Programming and computational tools (introductory proficiency): Python; R; MATLAB; SQL.

PROFESSIONAL MEMBERSHIPS

American Society for Biochemistry and Molecular Biology (2025–present)
American Society for Mass Spectrometry (2025–present)

HONORS SOCIETIES

Phi Theta Kappa International Honor Society (2022–present)

UNIVERSITY OF WASHINGTON COURSES (SELECTED)

Molecular and Cellular Biology

BIOL 302 Laboratory Techniques in Cell and Molecular Biology; BIOL 355 Foundations of Molecular and Cellular Biology; MICROM 450 Molecular Biology of Viruses.

Genomics, Proteomics, and Systems Biology

BIOL 497 Special Topics in Biology: Systems Biology; GENOME 372 Genomics and Proteomics; GENOME 475 Debates in Genetics

Chemistry

CHEM 142/152/162 General Chemistry I–III; CHEM 237 Organic Chemistry I.

Neuroscience and Computation

NEUSCI 490 Seminar in Computational Neuroscience.

Ethics

PHIL 242 Medical Ethics.

CONTINUING EDUCATION & CERTIFICATION

Environmental Health and Safety: University of Washington

Completed required laboratory safety training, including animal use regulations, biosafety cabinet operation, bloodborne pathogens, chemical and compressed gas safety, fume hood and fire safety, hazardous materials management, and hydrofluoric acid safety

Sciences (selected)

Research Methods and Translational Science

Introduction to systematic review and meta-analysis, Johns Hopkins University (2021); Introduction to translational science, University of Rochester (2021).

Computational and Data Science Training

Pierian Data (Udemy), 2020–2021:

Complete SQL Bootcamp; TensorFlow for Deep Learning with Python; Python for Data Science and Machine Learning; Python for Data Analysis and Visualization; Complete Python Bootcamp.

Neuroscience and Neuroimaging

Introduction to clinical neurology, University of California San Francisco (2019); Fundamental neuroscience for neuroimaging, Johns Hopkins University (2019); Principles of Functional Magnetic Resonance Imaging (fMRI) I, Johns Hopkins University and University of Colorado Boulder (2016); Visual perception and the brain, Duke University (2016).

Additional Coursework

Nanotechnology: The basics, Rice University (2014); Writing in the sciences, Stanford University (2013).

Humanities (selected)

Introduction to the philosophy of cognitive sciences, University of Edinburgh (2016); Becoming a student assistant: teaching and mentoring, University of Groningen (2016); Think again: how to reason and argue, Duke University (2014); Neuroethics, University of Pennsylvania (2013); Introduction to mathematical philosophy, Ludwig-Maximilians-Universität München (2013).

LICENSES & CERTIFICATIONS

IS-700.B: An Introduction to the National Incident Management System, FEMA (2023)

IS-800.D: National Response Framework: An Introduction, FEMA (2023)

REFERENCES

Bagheri N.

Professor of Biology; Professor of Chemical Engineering
University of Washington; Adjunct Professor, Northwestern University
Seattle, WA
Email: nbagheri@uw.edu

Nicolle S.

Professor
Canada Institute of Linguistics, Trinity Western University
Langley, BC, Canada
Email: steve.nicolle@canil.ca