



Application for Appointment to Whatcom County Boards and Commissions

Public Statement

THIS IS A PUBLIC DOCUMENT: As a candidate for a public board or commission, the information provided will be available to the County Council, County Executive, and the public. All board and commission members are expected to be fair, impartial, and respectful of the public, County staff, and each other. Failure to abide by these expectations may result in revocation of appointment and removal from the appointive position.

First Name	Rachel
Last Name	Arnold
Date	1/14/2019
Street Address	2223 Electric Avenue
City	Bellingham
Zip	98229
Do you live in & are you registered to vote in Whatcom County?	Yes
Do you have a different mailing address?	<i>Field not completed.</i>
Primary Telephone	2068519377
Secondary Telephone	<i>Field not completed.</i>
Email Address	frogfishes@gmail.com
1. Name of Board or Committee	Marine Resource Committee
Marine Resource Committee Position:	Conservation/Environmental Interest
2. Do you meet the residency, employment, and/or affiliation requirements of the position for which you're applying?	Yes
3. Which Council district do you live in?	District 2
4. Are you a US citizen?	Yes
5. Are you registered to vote in Whatcom County?	Yes

6. Have you declared candidacy (as defined by RCW 42.17A.055) for a paid elected office in any jurisdiction within the county?

No

7. Have you ever been a member of this Board/Commission?

No

8. Do you or your spouse have a financial interest in or are you an employee or officer of any business or agency that does business with Whatcom County?

No

You may attach a resume or detailed summary of experience, qualifications, & interest in response to the following questions

CV RA.pdf - attached

9. Please describe your occupation (or former occupation if retired), qualifications, professional and/or community activities, and education

I conduct research on population dynamics of forage fishes of the Salish Sea at the Salish Sea Research Center at Northwest Indian College. My PhD is from the University of Washington, School of Aquatic and Fishery Sciences. The Salish Sea Research Center does many outreach activities with the local community, especially the area tribes, related to marine conservation.

10. Please describe why you're interested in serving on this board or commission

My work is centered on the understanding and conservation of the marine environment. My work also includes networking with local non-profits and governmental agencies to identify projects that would be beneficial to food sovereignty and clean water for the Lummi people and all local residents of the Coast Salish bioregion.

References (please include daytime telephone number):

Dr. Misty Peacock (Director of the Salish Sea Research Center): 360-594-4082
Dr. Marco Hatch (WWU): 206-403-8566

Signature of applicant:

Rachel Arnold

Place Signed / Submitted

Bellingham, WA

RACHEL J. ARNOLD, PHD
Northwest Indian College
Associate Director, Salish Sea Research Center
2522 Kwina Road, Bellingham, WA 98226
(206) 851 9377 • frogfishes@gmail.com

EDUCATION

Ph.D., School of Aquatic and Fishery Sciences, University of Washington—Seattle, Washington, 2014

M.S., School of Aquatic and Fishery Sciences, University of Washington—Seattle, Washington, 2010

B.Sc., Biology and Philosophy, University of Wisconsin Eau Claire—Eau Claire, Wisconsin, 2002–2004

University of Southern Mississippi, Gulf Coast Research Laboratory Summer Program—Ocean Springs, Mississippi. June–August, 2002–2004

University of Wisconsin Madison—Madison, Wisconsin, 2000–2001

University of Wood County—Marshfield, Wisconsin (High School Running Start Program), 1999–2000

POSITIONS

Associate Director, Salish Sea Research Center, Northwest Indian College, Bellingham, WA, August 2018—present.

Faculty, Native Environmental Science Program, Northwest Indian College, Bellingham, WA, September 2015–August 2018.

Research Assistant, Groundfish Observer Program, National Marine Fisheries Service, through the School of Aquatic and Fishery Sciences, University of Washington. Seattle, WA, October 2011–August 2014.

Research Assistant, Ichthyology Collection at the Burke Museum of Natural History and Culture, University of Washington. Seattle, WA, June 2005–September 2011.

Vice-President, Gilbert Ichthyological Society, 2010.

Secretary, Gilbert Ichthyological Society, 2010–2013.

GRANTS

Restoring the Salish Sea: Food Sovereignty and Clean Water in the Pacific Northwest (Co-PI). NSF

1840199. Awarded, \$2,998,523.

From Mountain to Sea: Creating a Culturally Relevant, Multi-Faceted Summer Science Program to Facilitate a Community of Learners at the Salish Sea Research Center (grant writer). NSF-1812474. Awarded, \$499,998.

National Science Foundation, Small Grants for Research (SGR), Developing a Quantitative Real-Time PCR (qrt-PCR) Assay to Identify and Quantify Harmful Algal Bloom (HAB) Phytoplankton Species in the Salish Sea (PI). NSF 16-531. Declined, \$200,001.

National Science Foundation, Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM), Building our net: fostering resilient Indigenous scientists and increasing undergraduate retention in the STEM field through scholarships and mentoring (Co-PI). NSF-1644271, Awarded \$998,771.

NASA MUREP for American Indian and Alaskan Native STEM Engagement (MAIANSE), Northwest Future Indigenous Scientists and Engineers (NW-FISE) (Co-PI), NNH16ZHA0099N-MAIANSE, Awarded, \$272,000.

National Science Foundation SEA-PHAGES Tribal Colleges and Universities Program, Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science (SEA-PHAGES) at Northwest Indian College (NWIC) (Co-PI), NSF 16-531, Awarded \$299,996.

Department of Defense, Equipment, Research and Education Program for Historically Black Colleges and Universities and Minority Serving Institutions, Equipment and instrumentation for the molecular and analytical chemistry laboratory in the Salish Sea Research Center: promoting STEM student research at Northwest Indian College (PI). DoD W911NF-16-R-0024, Declined \$570,938.

National Science Foundation, Small Grants for Research (SGR), Assessing population size and structure of the Longfin Smelt (*Spirinchus thaleichthys*) in the Nooksack River (PI). NSF-1622492, Awarded \$199,936.

TEACHING EXPERIENCE

Instructor

Northwest Indian College, Bellingham, WA

Introduction to Biology, BIOL 101

2015–2018

- Taught introductory biology lecture and laboratory for environmental science majors and non-majors
- Prepared course material, quizzes, laboratories, and supplementary materials
- Led field exercises; incorporated HHMI's SEA-PHAGES program for laboratories
- Administered and graded quizzes and exams

Marine Biology, BIOL 103

2015–2016

- Taught marine biology lecture and laboratory for environmental science majors and non-majors

- Prepared course material, quizzes, laboratories, and supplementary materials
 - Led field exercises
 - Administered and graded quizzes and exams
- Animal Biology, BIOL 203* 2015–2018
- Taught animal biology lecture and laboratory for environmental science majors
 - Prepared course material, quizzes, laboratories, and supplementary materials
 - Led dissection laboratories
 - Administered and graded quizzes and exams
- Ecology, BIOL 310* 2017– 2018
- Prepared course and supplementary materials
 - Administered and graded research papers
- Genetics and Evolution, BIOL 344* 2016–2019
- Developed a new introductory genetics and evolution course for environmental science majors
 - Designed problem-based laboratory exercises
 - Prepared course material, quizzes, discussion sessions, and supplementary materials
- Aquatic Ecology, ENVS 430* 2015–2018
- Taught aquatic ecology lecture and laboratory for environmental science majors
 - Prepared course material, quizzes, laboratories, and supplementary materials
 - Led stream-based field exercises
 - Administered and graded quizzes and exams
- Ecology of the Salish Sea, ENVS 440* 2015–2018
- Taught ecology of the Salish Sea lecture and laboratory for environmental science majors
 - Prepared course material, quizzes, laboratories, and supplementary materials
 - Led marine-based field exercises and aided with boat safety and transportation
 - Administered and graded quizzes and exams

Academic Tutor

North Seattle College, Seattle, WA

- Anatomy and Physiology I & II, BIOL 241 and 242 for non-traditional students* 2015
- Report to HEET team coordinators on student success
 - Develop strategies for improving student learning
 - Provide individual tutoring sessions
 - Organize and facilitate group tutoring and review sessions
 - Administer iClicker sessions
 - Attend and aid students in lecture and laboratory

Graduate Teaching Assistant

Alaska Resource Ecology and Fisheries Management Division, Alaska Fisheries Science Center,
NOAA/NMFS, Seattle

- Fish Identification Trainer for North Pacific Groundfish Observer Program* 2011–2014
- Trained personnel on the identification of North Pacific Groundfishes
 - Updated instructional materials and identification resources
 - Verified in-field identifications of fishes returned to the center

University of Washington, School of Aquatic and Fishery Sciences