# Cheryl L. Barnes, PhD (she | they)

Assistant Professor, Integrated Marine Fisheries Lab

Coastal Oregon Marine Experiment Station Department of Fisheries, Wildlife, and Conservation Sciences Hatfield Marine Science Center, Oregon State University 2030 SE Marine Science Dr | Newport, OR 97365

e: cheryl.barnes@oregonstate.edu · p: (541) 867-0116

2007-2008

2006-2007

	w: cheryl-barnes.github.io
EDUCATION	
PhD, Fisheries – UNIVERSITY of ALASKA FAIRBANKS (UAF) College of Fisheries and Ocean Sciences, Juneau Campus	2019
MS, Marine Science – MOSS LANDING MARINE LABORATORIES (MLML)  Degree awarded by San José State University (SJSU)	2015
BS, Biology – SAN DIEGO STATE UNIVERSITY (SDSU) Emphasis: Marine Biology	2006
PROFESSIONAL EXPERIENCE (2006 to Present)	
COASTAL OREGON MARINE EXPERIMENT STATION  DEPARTMENT OF FISHERIES, WILDLIFE, AND CONSERVATION SCIENCES  OREGON STATE UNIVERSITY [with support from Oregon Dept. of Fish and Wildlife]  Assistant Professor in Marine Fisheries	2023-P
COOPERATIVE INSTITUTE for CLIMATE, OCEAN, and UNIVERSITY of WASHINGTON – Seattle, WA ALASKA FISHERIES SCIENCE CENTER, NOAA – Seattle, WA ALASKA REGIONAL OFFICE, NOAA – Juneau, AK	COES)
Research Scientist Postdoctoral Scholar	2022-2023 2020-2022
SCALE BACK CONSULTING, LLC — Anchorage, AK  Principal Investigator	2020-2023
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK  Research Assistant: Ecological interactions among groundfishes in the Gulf of Alask  Teaching Assistant: Field Methods in Marine Ecology and Fisheries	ka 2015-2019 2017
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (CCFRP) – Moss Landing, CA  Lead Scientist  Volunteer Coordinator Science Crew	2011-2014 2010-2011 2010
CALIFORNIA SEA GRANT – San Diego, CA Extension Program Representative	2010-2014
SAN DIEGO OCEANS FOUNDATION (SDOF) – San Diego, CA Programs and Outreach Director Marine Science Education Program Coordinator	2008-2010 2008
MWR: COMMANDER FLEET ACTIVITIES – Sasebo, Japan	2027 2020

Head Lifeguard and Water Safety Instructor

Lifeguard

AWARDS AND HONORS		
Chapter Service Award, Alaska Chapter of the American Fisheries Society	2023	
Diversity and Inclusion Service Award, Western Division of the American Fisheries So	ociety 2021	
Top 10 Most Downloaded Papers ^, Ecological Applications	2020	
W.F. Thompson Award (Best Student Paper from 2018 *), American Institute of Fish	ery Biologists 20	019
Dean's Recognition Award – Outstanding Graduate Student, UAF	2019	
First Place – Student Talk <sup>1</sup> , Western Groundfish Conference	2018	
Second Place – Student Poster <sup>2</sup> , Western Groundfish Conference	2016	
Mirth Award, Western Groundfish Conference		016
First Place – Student Poster <sup>3</sup> , Monterey Bay National Marine Sanctuary Symposium	2013	
Dean's List – Honors Recognition, SDSU	2004, 20	006
Superscripts correspond to items in 'Pl	UBLICATIONS' and 'PRESENTAT	TION
Student Travel Awards:	2045 20	
Wakefield Fisheries Symposium	2015, 2015	
,	2015, 2017, 2018	
Western Groundfish Conference	2012, 2014, 2016, 2017	.δ
Western Division of the American Fisheries Society	2017	
CSU Council on Ocean Affairs, Science, and Technology International Flatfish Symposium	2014	014
	20	014
GRANTS AND FELLOWSHIPS		
Alaska Regional Office, NOAA Fisheries (co-PIs: J. Pirtle, J. Thorson) – \$100,276	2023	
Alaska Sea Grant Program Development Award (AK Chapter AFS) – \$8,850	2022	
California Sea Grant Program Development Award (WSN) – \$4,000; \$9,999	2021; 20	
Magnuson-Stevens Act Implementation (PIs: J. Thorson, J. Pirtle, T. Essington) – \$22		)22
Northern Gulf of Alaska Applied Research Award – \$10,000	2018-2019	
Rasmuson Fisheries Research Center Graduate Fellowship – \$78,901	2017-2019	
Pollock Conservation Cooperative Research Center (PI: A. Beaudreau) – \$201,516	2015-2019	
SJSU Associated Students Advocacy Award – \$500	2014	
SJSU Graduate Equity Fellowship – \$3,000	2013-2014	
Santa Monica Seafood's Responsible Sourcing Vendor Partner Grant (CCFRP) – \$15,0		
Clarence F. and Lyle V. Burmahln Scholarship – \$500		013
Dr. Earl M. Myers and Ethel M. Myers Oceanographic and Marine Biol. Trust Grant –		
MLML Scholar Award: Michael Lee Environmental Foundation – \$2,200	2013	
Xiphias Martin Scholarship: John H. Martin Family – \$500	2013	
Lucille and David Packard Foundation Research and Travel Grant – \$1,000	2013	
CSU Council on Ocean Affairs, Science, and Technology Graduate Student Award – \$		•
California Sea Grant: Program Development Award (SDOF) – \$9,900	20	010

### **PUBLICATIONS**

### Published, In Press, or Accepted

Thorson JT, **Barnes CL**, Friedman ST, Morano JL, and Siple MC. 2023. Spatially varying coefficients can improve parsimony and descriptive power for species distribution models. Ecogr. e06510.

Brodie S, Smith JA, Muhling BA, Kaplan IC, Barnett LAK, Carroll G, Fiedler P, Bograd SJ, Hazen EL, Jacox MG, Andrews KS, **Barnes CL**, Crozier L, Fiechter J, Fredston A, Haltuch MA, Harvey CJ, Holmes E, Karp MA, Liu OR, Malick MJ, Buil MP, Richerson K, Rooper CN, Samhouri J, Seary R, Selden RL, Thompson AR, Thorson J, Tommasi D, Ward EJ, and Zabel R. 2022. Recommendations for quantifying and reducing uncertainty in projections of species distributions. Glob Change Biol. 28:6586-6601.

#### PUBLICATIONS, CONT'D

- **Barnes CL**, Essington TE, Pirtle JP, Rooper CN, Laman EA, Holsman KK, Aydin KY, and Thorson JT. 2022. Climate-informed models benefit hindcasting but present challenges when forecasting species-habitat associations. Ecogr. e06189.
- Dorn MW and **Barnes CL**. 2022. Time-varying predation as a modifier of constant natural mortality for Gulf of Alaska pollock. Fish Res. VSI Natural Mortality. 254(2022):106291.
- Grüss A, Thorson JT, Stawitz CC, Reum JCP, Rohan SK, and **Barnes CL**. 2021. Synthesis of interannual variability in spatial demographic processes supports the strong influence of cold-pool extent on eastern Bering Sea walleye pollock (*Gadus chalcogrammus*). Progr Ocean. 194(2021):102569
- **Barnes CL**, Beaudreau AH, and Yamada RN. 2021. The role of size in trophic niche separation between two groundfish predators in Alaskan waters. Mar Coast Fish. 13:98–113.
- **Barnes CL**<sup>^</sup>, Beaudreau AH, Dorn MW, Holsman KK, and Mueter FJ. 2020. Development of a predation index to assess trophic stability in the Gulf of Alaska. Ecol Appl. 30(4):e02141.
- **Barnes CL**\*, Beaudreau AH, Hunsicker ME, and Ciannelli L. 2018. Assessing the potential for competition between Pacific Halibut (*Hippoglossus stenolepis*) and Arrowtooth Flounder (*Atheresthes stomias*) in the Gulf of Alaska. PLoS ONE. 13(12):e0209402.
- **Barnes CL** and Starr RM. 2018. Reproductive tactics of California Halibut (*Paralichthys californicus*): combining spawning season, interspawning interval, and batch fecundity to estimate annual reproductive output for a multiple-batch spawning fish. CalCOFI Rep. 59:102–114.
- Lesyna KM and Barnes CL (corresponding author). 2016. Assessment of length- and age-at-maturity for California Halibut (*Paralichthys californicus*), including a histologically-based description of the reproductive cycle. Calif Fish Game. 102(3):79–99.
- **Barnes CL**, Starr RM, and Reilly PN. 2015. Growth, mortality, and reproductive seasonality of California Halibut (*Paralichthys californicus*): a biogeographic approach. CalCOFI Rep. 56:110–118.
- Starr RM, Wendt DE, **Barnes CL**, Marks CI, Malone D, Waltz G, Schmidt KT, Chiu J, Launer AL, Hall NC, and Yochum N. 2015. Variation in responses of fishes across multiple reserves within a network of marine protected areas in temperate waters. PLoS ONE. 10(3):e0118502.
- Starr RM, Cortés J, **Barnes CL**, Green K, and Breedy O. 2012. Characterization of deepwater invertebrates at Isla del Coco National Park and La Gemelas Seamount, Costa Rica. Int J Trop Biol. 60(3):303–319.

#### Submitted or In Review

Kerametsidis G, Thorson J, Rossi V, Álvarez-Berastegui D, **Barnes CL**, Certain G, Esteban A, García E, Jadaud A, Piñeiro S, Vivas M, and Hidalgo M. Submitted. Cross-scale environmental impacts across persistent and dynamic aggregations within a complex population: implications for fisheries management. Can J Fish Aquat Sci. Forthcoming.

#### In Preparation

- **Barnes CL**, Dorn MW, Essington TE, McGilliard CR, Punt AE, and Reum JCP. In prep. The potential for trophic cascades in an ever-changing ecosystem recently impacted by marine heatwaves.
- Holsman KK, **Barnes CL**, Aydin KY, Thorson JT, Zador S, Barbeaux SJ, Laurel BJ, Hurst TP, and Heintz RA. In prep. Patterns in foraging and energetics of mid-trophic level predators in the Bering Sea.
- **Barnes CL**, Waltz GT, Hamilton SL, Ruttenberg BI, Starr RM, et al. In prep. Synchrony as a measure of resilience for temperate groundfish communities.

### **PRESENTATIONS**

PRESENTATIONS	
62-63 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Fairbanks, AK	2023
<ul> <li>Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat association</li> <li>Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU</li> </ul>	ns
<ul> <li>OREGON CHAPTER of the AMERICAN FISHERIES SOCIETY – Eugene, OR</li> <li>Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU</li> </ul>	.023
	2023
<ul> <li>Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat association</li> <li>Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU</li> </ul>	
<sup>58</sup> ECOSYSTEM STUDIES of SUBARCTIC AND ARTIC SEAS – Seattle, WA 2022	
— Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat association	ns
<sup>57</sup> ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Virtual	2022
<ul> <li>Model complexity has contrasting effects for hindcasting and forecasting species responses to climate change</li> </ul>	
<sup>56</sup> WESTERN SOCIETY of NATURALISTS – Virtual	2021
<ul> <li>Model complexity has contrasting effects for hindcasting and forecasting species responses to climate change</li> </ul>	2021
55 CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY - Virtual  — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock	
<ul> <li>ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK</li> <li>Development of a predation index to assess trophic stability in the Gulf of Alaska</li> </ul>	2020
<ul> <li>52-53 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Sitka, AK</li> <li>— Assessing the potential for competition between Pacific Halibut and Arrowtooth Flounder in the Gulf of Alaska</li> <li>— Spatiotemporal variation in consumption of Walleye Pollock by major groundfish predators in the Gulf of Alaska</li> </ul>	
	2019
<ul> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	2013
<ul> <li>POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER – Anchorage, AK</li> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	2019
<ul> <li>ASMUSON FISHERIES RESEARCH CENTER – Anchorage, AK</li> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	2019
<ul> <li>WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK</li> <li>Comparative resource use by two groundfish species in nearshore SE Alaska</li> </ul>	2019
<sup>47</sup> ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR – Seattle, WA  — Ecological interactions among major groundfish species in the Gulf of Alaska	
<ul> <li>WESTERN DIVISION of the AMERICAN FISHERIES SOCIETY – Anchorage, AK</li> <li>Assessing the potential for competition between Pacific Halibut and Arrowtooth Flounder in the Gulf of Alaska</li> </ul>	
- ·	2018
	2018
<sup>43</sup> RASMUSON FISHERIES RESEARCH CENTER – Anchorage, AK — Ecological interactions among groundfish species in the Gulf of Alaska	2018
42 UNIVERSITY OF ALASKA FAIRBANKS: AQUATIC FOOD WEB ECOLOGY – Juneau, AK  — Making ecological inferences from fisheries data	
<ul> <li>WESTERN GROUNDFISH CONFERENCE – Monterey, CA</li> <li>A comparative assessment of resource use by P. Halibut and Arrowtooth Flounder throughout the Gulf of Alasl</li> </ul>	2018 ka <sup>1</sup>
	2018

# PRESENTATIONS, CONT'D

PRESENTATIONS, CONT'D		
<sup>39</sup> ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Fairbanks, AK	2017	
— A comparative assessment of resource use by P. Halibut and Arrowtooth Flounder throughout the Gulf of Ala	aska	
<ul> <li>WESTERN DIV. of the AMERICAN FISHERIES SOCIETY: STUDENT COLLOQUIUM – McCall, ID 2017</li> <li>A comparative assessment of resource use by P. Halibut and Arrowtooth Flounder from nearshore waters of</li> </ul>	SE Alaska	ı
<ul> <li>ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK</li> <li>Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska</li> </ul>	2017	
<ul> <li>POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER – Anchorage, AK</li> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	2017	
<ul> <li>ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK</li> <li>Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska</li> </ul>	2016	
<ul> <li>33-34 POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER – Anchorage, AK</li> <li>Developing an index of predation to improve the assessment of Walleye Pollock in the Gulf of Alaska</li> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>		
<ul> <li>UNIVERSITY of ALASKA SOUTHEAST – Juneau, AK</li> <li>Introduction to AK Fisheries Seminar: Pacific Halibut biology, ecology, management</li> </ul>	2016	
<ul> <li>WESTERN GROUNDFISH CONFERENCE – Newport, OR</li> <li>Growth, mortality, and reproductive seasonality of California Halibut: a biogeographic approach</li> <li>Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska</li> </ul>	2016	
<ul> <li>WESTERN SOCIETY of NATURALISTS – Monterey, CA</li> <li>A comparative assessment of resource use by Pacific Halibut and Arrowtooth Flounder from nearshore water Southeast Alaska: results from a small-scale field study</li> </ul>	2016 rs of	
<sup>27-28</sup> AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – Homer, AK	2015	
<ul> <li>Effects of demography, trophic interactions, and the environment on major groundfish species in the Gulf of</li> <li>Exploring environmental and demographic drivers of resource overlap among Pacific Halibut,</li> <li>Arrowtooth Flounder, and Walleye Pollock in the Gulf of Alaska</li> </ul>	Alaska	
<ul> <li>ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY: STUDENT SYMPOSIUM – Juneau, AK</li> <li>— Growth, mortality, and reproductive seasonality of California Halibut: a biogeographic approach</li> </ul>	2015	
<sup>25</sup> WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK		2015
Growth, mortality, and reproductive seasonality of California Halibut		2013
<sup>23-24</sup> CA COLLABORATIVE FISHERIES RESEARCH PROGRAM – Half Moon Bay & Moss Landing, CA	2014	
<ul> <li>Research objectives, data collection, analyses, and project results (training workshop)</li> <li>MPA monitoring and other project results from 2013 (participant workshop)</li> </ul>		
<ul> <li>INTERNATIONAL FLATFISH SYMPOSIUM – Cle Elum, WA</li> <li>Age, growth, and reproductive potential of California Halibut</li> </ul>	2014	
<ul> <li>MARINE: OCEANS COLLOQUIUM – Moss Landing, CA</li> <li>Reproductive biology of California Halibut: results from the Central Coast</li> </ul>	2014	
<ul> <li>MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, CA</li> <li>Reproductive biology of California Halibut: results from the Central Coast</li> </ul>		
<ul> <li>MOSS LANDING MARINE LABORATORIES, OPEN HOUSE SEMINAR – Moss Landing, CA</li> <li>Flatfish fecundity: evaluating the reproductive nature of a prolific spawner in and around Monterey Bay</li> </ul>	2014	
<sup>18</sup> MPA COLLABORATIVE NETWORK	2014	
Key findings from monitoring Monterey Bay's marine protected areas		
16-17 WESTERN GROUNDFISH CONFERENCE – Victoria, Canada	2014	
<ul> <li>MPA monitoring: more than just the latest and greatest in marine conservation trends</li> <li>Reproductive biology of California Halibut: results from the Central Coast</li> </ul>	_011	
Reproductive biology of cumorina riambut. results from the central coast		

# PRESENTATIONS, CONT'D

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<sup>15</sup> WESTERN SOCIETY of NATURA				2014
<ul> <li>Reproductive biology of Califor</li> </ul>				
<ul> <li>13-14 CA COLLABORATIVE FISHERII</li> <li>Research objectives, data colle</li> <li>MPA monitoring and other pro</li> </ul>	ction, analyses, and project re	esults (training workshop)	inding, CA	2013
12 CALIFORNIA DEPARTMENT of F			2013	
— The California Collaborative Fis			tions	
<ul> <li>MONTEREY BAY NAT'L MARINI</li> <li>Reproductive characteristics of</li> </ul>			de, CA 2013	
<sup>10</sup> MOSS LANDING MARINE LABO			CA	2013
<ul> <li>Spawning characteristics of Cal</li> </ul>		<u>.</u>		
<sup>9</sup> WATSONVILLE AREA TEENS COI	NSERVING HABITATS PRO	GRAM – Watsonville, CA	2013	
<ul> <li>Reproductive characteristics of</li> </ul>	California Halibut off central	California, with comparisons to	o the S. California	Bight
<sup>8</sup> WESTERN SOCIETY of NATURAL	ISTS – Oxnard, CA			2013
<ul> <li>Reproductive biology of Califor</li> </ul>	nia Halibut: evidence from th	e Central Coast		
<sup>6-7</sup> CA COLLABORATIVE FISHERIES	RES. PROG. – Half Moon	Bay & Moss Landing, CA	2012	
<ul> <li>Research objectives, data colle</li> </ul>		=		
— MPA monitoring and other pro				
<sup>5</sup> EXPANDING YOUR HORIZONS N	• •			2012
— Fishing for our future: fisheries				
<ul> <li>MONTEREY BAY NAT'L MARINE</li> <li>Collaborative fisheries research</li> </ul>			le, CA 2012	
<sup>3</sup> MOSS LANDING MARINE LABOR	•	=	`Λ	2012
<ul> <li>Fishing for science: the Californ</li> </ul>				2012
<sup>2</sup> WESTERN GROUNDFISH CONFE		J	2012	
<ul> <li>Collaborative fisheries research</li> </ul>	•	to data-rich management	-	
<sup>1</sup> SAN DIEGO BAY SYMPOSIUM –	San Diego, CA			2009
— SDOF's White Seabass Restorate	tion Project and its relevance	to San Diego Bay		
MENTORSHIP				
Graduate Students (° Committee I	Member)			
M. Bargas (MS, 2023-P)	,			
Graduate and Post-Baccalaured	ate Research Assistants			
J. Antus (2009)	H. Heath (2013-14)	S. Robinson (2011)	A. Sloan (2014)	
H. Delgado-Nordmann (2016)	G. Hunt (2015)	K. Ros (2010)	, ,	
Undergraduate Research Assist	ants			
A. Aines (2013)	D. Duncan (2013)	Z. Johanson (2016)	R. Rand (2011-1	•
D. Anaya (2013)	A. Feck (2009)	A. Kamber (2017)	M. Schmidt (201	•
<ul><li>K. Askeland (2010)</li><li>M. Bargas (2017)</li></ul>	A. Gile (2015) N. Giraud (2009)	L. Knopp (2009) K. Kuhn (2008)	<ul><li>E. Schurig (2013</li><li>S. Saadat (2010</li></ul>	•
K. Beck (2014)	C. Giordano (2014)	J. Li (2020-21)	P. Saengcharoe	-
E. Bjork (2008)	A. Hedger (2009)	S. Link (2016)	N. Siababa (2014	
S. Briley (2008)	E. Hetherington (2009)	S. Lomonico (2014)	E. Stollmeyer (2	•
K. Brown (2016)	F. Holman (2022-P)	M. Mairz (2010)	H. Wayner (2016	5-17)
A. Chorazyczewski (2014)	C. Homer (2018)	R. McCollough (2013)	D. Weir (2009)	
C. Doles (2013)	C. Hope (2010)	P. Muehlenbeck (2012)		

#### PROFESSIONAL SERVICE AND OUTREACH ACTIVITIES

SCIENTIFIC AND STATISTICAL COMMITTEE, PACIFIC FISHERY MANAGEMENT COUNCIL
Oregon Department of Fish and Wildlife Appointment
PEER REVIEWER

2023-P

Bulletin of the S California Academy of Sciences

Fishery Bulletin Journal of Fish Biology

**PLoS ONE** 

2010

Ecosphere Frontiers in Marine Science

Exxon Valdez Oil Spill Trustee Council ICES Journal of Marine Science Fisheries Research Journal of Applied Ecology

NEWPORT PRIDE, Planning Committee and Founding Board of Directors 2022-P

AMERICAN FISHERIES SOCIETY, ALASKA CHAPTER

Peer Mentor; Professional Mentor

Diversity, Equity, and Inclusion Committee (Chair)

Annual Meeting Planning Committee

2020-P

2018-P

2017, 2019, 2021, 2022, 2023

Program, Awards (co-Chair), and Entertainment Committees 2018-2019
Executive Committee, Student Representative 2015-2017

AMERICAN FISHERIES SOCIETY, WESTERN DIVISION

Diversity and Inclusion Committee; Annual Meeting Planning Committee 2018-P; 2021

AMERICAN FISHERIES SOCIETY, Diversity, Equity, and Inclusion Committee 2021-2023

WESTERN GROUNDFISH CONFERENCE, Steering Committee 2019-2022

WESTERN SOCIETY OF NATURALISTS (WSN), Diversity, Equity, and Inclusion Committee 2018-2022

SKYPE A SCIENTIST, Volunteer 2018-2022

ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA), Gender Equity Working Group 2021

SOUTHEAST ALASKA LGBTQIA+ ALLIANCE

Board Member; Volunteer 2018-2019; 2015-2019

UNIVERSITY OF ALASKA FAIRBANKS

Assistant Professor in Quantitative Fisheries Search Committee 2018-2019

Graduate Academic and Advising Committee 2017-2019

Professional Development Workshop Organizer 2018

SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer 2018

PARTNERSHIP FOR INTERDISCIPLINARY STUDIES OF COASTAL OCEANS, Volunteer 2013-2014, 2018

ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer 2017

MOSS LANDING MARINE LABORATORIES

SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant

Curriculum Committee 2012-2014

Donations Committee Chair <sup>a</sup>; Advisor <sup>b</sup>

<sup>a</sup> 2011-2012; <sup>b</sup> 2013-2014

Associated Student Redu Vice President

Associated Student Body Vice President 2011-2012

TEACHER ENHANCEMENT PROGRAM, Marine Science Educator 2013

WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor 2012-2013

EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer 2011-2013

MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor 2011, 2013

SAN DIEGO SCIENCE AND ENGINEERING FAIR, Professional Society Judge 2009-2010

SAN DIEGO COASTKEEPER, Outreach and Community Event Intern 2005-2006

UNDERGRADUATE RESOURCE OPPORTUNITIES CENTER CSU MONTEREY BAY, Mentor 2014

SELECT ASSOCIATIONS, TRAININGS, AND CERTIFICATIONS		
500 QUEER SCIENTISTS, Member	20	17-P
ALASKA CLIMATE INTEGRATED MODELING (ACLIM), Collaborator	2020-P	
ALASKA MARINE SAFETY EDUCATION ASSOC, Cold Water Survival; Skiff Operator	2015, 2017	
AMERICAN ACADEMY OF UNDERWATER SCIENCES, Scientific Diver; Member	2010-P	
AMERICAN FISHERIES SOCIETY, Western Division and Alaska Chapter Member	2015-P	
AMERICAN INSTITUTE OF FISHERY RESEARCH BIOLOGISTS, Member	2019-P	
AMERICAN RED CROSS		
CPR, AED, First Aid, and Administering Emergency O <sub>2</sub>	2006-2015	
Lifeguard and Water Safety Instructor; Fundamentals of Instructor Training	2006-2008	
AMERICAN STATISTICAL ASSOCIATION, Alaska Chapter Member	2019-P	
CA DEPARTNENT OF BOATING AND WATERWAYS, Boating Education Certificate	2011	
CA OCEAN SCIENCE TRUST, CA Citizen Science Initiative Participant	2014	
CAREERSTONE GROUP, Managing Up Workshop Participant		2021
COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE (CITI)	2015 2012	
Working with the IACUC; Field and Lab Animal Researchers	2015-2018	
ECOLOGICAL SOCIETY OF AMERICA, Member	2019-P	
EPSCoR, Mindful Leadership: Creating a Diverse and Inclusive UA Workshop Participant	2018	
EQUAL EMPLOYMENT OPPORTUNITY COMM., Beyond the Binary Workshop Participant	2021	
GULF OF ALASKA CLIMATE INTEGRATED MODELING (GOACLIM), Collaborator	2022-P	
MORALE, WELFARE, AND RECREATION, COMM. FLEET ACT, Power Boat Operator	2007	
MPA COLLABORATIVE NETWORK, Participant	2011-	2014
NAT'L ASSOC. OF UNDERWATER INSTRUCTORS  Master SCUBA Diver; Nitrox Diver	2010	
NATIONAL CENTER FOR ECOLOGICAL ANALYSIS AND SYNTHESIS (NCEAS)  Reproducible Research Techniques for Synthesis Workshop Participant		2019
NATIONAL COUNCIL FOR BEHAVIORAL HEALTH, Mental Health First Aid USA	2018	
NOAA PRIDE EMPLOYEE RESOURCE GROUP, Member	2020-2023	
oSTEM, Member	20	19-P
PROFESSIONAL ASSOCIATION OF DIVING INSTRUCTORS		
Open Water, Advanced Open Water, Rescue Diver; Dive Master 2006	6, 2007, 2009;	2010
REEF CHECK CALIFORNIA  UPC, Algae, Invertebrate, and Fish Surveyor		2010
REEF ENVIRONMENTAL EDUCATION FOUNDATION (REEF)		
Marine Algal, Invertebrate, and Expert Fish Surveyor		2008
SACNAS, Member	20	22-P
SACNAS NATIVE INITIATIVES, Creating More Inclusive Spaces in STEM Workshop Participation	ant 2021	
TRIMBLE, Intermediate Mapping and GIS Certificate	2011	
UNITED STATES COAST GUARD, Small Vessel Operator	2015	
WESTERN SOCIETY OF NATURALISTS, Member	2010-P	

**REFERENCES AVAILABLE UPON REQUEST**