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



cheryl.barnes@oregonstate.edu (541) 867-0116

SEDUCATION	
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)	
OREGON STATE UNIVERSITY (OSU) Assistant Professor in Marine Fisheries	2023-P
SCIENTIFIC and STATISTICAL COMMITTEE (SSC), PACIFIC FISHERY MANAGE Appointment, Oregon Department of Fish and Wildlife Representative Vice Chair, Groundfish Subcommittee Member, Ecosystem-based Management and Highly Migratory Species Subc	2023-P
COOPERATIVE INSTITUTE for CLIMATE, OCEAN, and ECOSYSTEM STUDIES UNIVERSITY of WASHINGTON – Seattle, WA	(CICOES)
ALASKA FISHERIES SCIENCE CENTER, NOAA – Seattle, WA ALASKA REGIONAL OFFICE, NOAA – Juneau, AK	
Research Scientist	2022-2023
Postdoctoral Scholar	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 Teaching Assistant: Field Methods in Marine Ecology and Fisheries	of Alaska 2015-2019 2017
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (CCFRP) – Moss Land	•
Lead Scientist	2011-2014
Volunteer Coordinator Science Crew	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	2008-2010
Marine Science Education Program Coordinator	2008
MWR: COMMANDER FLEET ACTIVITIES – Sasebo, Japan Head Lifeguard and Water Safety Instructor; Lifeguard	2007-2008; 2006-2007

O ANYARDS WE HONORS	
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 Society	
Top 10 Most Downloaded Papers , Ecological Applications	2020
W.F. Thompson Award (Best Student Paper from 2018*), American Institute of Fishery Biological Paper from 2018	0
Dean's Recognition Award – Outstanding Graduate Student, UAF	2019
First Place – Student Talk [®] , Western Groundfish Conference	2018
Second Place – Student Poster†, Western Groundfish Conference	2016
Mirth Award, Western Groundfish Conference	2016
First Place – Student Poster [§] , Monterey Bay National Marine Sanctuary Symposium	2013
Dean's List – Honors Recognition, SDSU	2004, 2006
CONFERENCE TRAVEL	
Lowell Wakefield Fisheries Symposium 201.	5, 2019, 2024
Alaska Chapter of the American Fisheries Society 201	5, 2017, 2018
Western Groundfish Conference 2012, 201	4, 2016, 2018
Western Division of the American Fisheries Society	2017
CSU Council on Ocean Affairs, Science, and Technology	2014
International Flatfish Symposium	2014
Superscripts correspond to items in 'PUBLICATIONS' and	'PRESENTATIONS'
GRANTS AND FELLOWSHIPS	
Magnuson-Stevens Act Implementation, NOAA Fisheries	
Pls: CL Barnes, PD Spencer, M Szymkowiak – \$190,309	2024
Climate and Fisheries Adaptation (CAFA) Program, NOAA Fisheries	2021
Alaska Climate Integrated Modeling (ACLIM) Project, Phase III – \$149,058 Pls: KY Aydin, KK Holsman, CS Szuwalski, SP Wise; Collaborators: CL Barnes, JCP Reum	2024
Gulf of Alaska Climate Integrated Modeling (GOACLIM) Project, Phase II – \$79,957	2024
PIs: CL Barnes, MD Bryan, MW Dorn, CR McGilliard, AE Punt; Collaborator: JCP Reum	
GOACLIM Project, Phase I – \$154,279	2024
Pls: MW Dorn, AE Punt; Collaborators: CL Barnes, TE Essington, JCP Reum	2021
Pacific Fishery Management Council – \$40,056	2024
Alaska Regional Office and Alaska Fisheries Science Center, NOAA (co-PI: JT Thorson) – \$122,	
Alaska Regional Office, NOAA (co-Pls: J Pirtle, JT Thorson) – \$104,121	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; 2022
Magnuson-Stevens Act Implementation, NOAA (PIs: JT Thorson, JL Pirtle, TE Essington) – \$229,306	
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: AH 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) – \$15,000	2013-2014
Clarence F. and Lyle V. Burmahln Scholarship – \$500	2013
Dr. Earl M. Myers and Ethel M. Myers Oceanographic and Marine Biol. Trust Grant – \$1,500	
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 – \$3,000	
California Sea Grant: Program Development Award (SDOF) – \$9,900	2010

PUBLICATIONS

Published, In Press, or Accepted

- 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. 2024. Cross-scale environmental impacts across persistent and dynamic aggregations within a complex population: implications for fisheries management. Can J Fish Aquat Sci. 00:1-17. dx.doi.org/10.1139/cjfas-2023-0120.
- Dick EJ, **Barnes CL**, Coates J, Grunloh N, Monk M, and Rogers T. 2023. The status of Black Rockfish (*Sebastes melanops*) in U.S. waters off California in 2023. Pacific Fishery Management Council. 300pp.
- 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.
- **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 specieshabitat 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**[^], 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 Cl, 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.

PUBLICATIONS, CONT'D

Submitted or In Review

Goodman MC, Reum JCP, **Barnes CL**, Punt AE, Ianelli JN, McHuron EA, de Leo G, and Holsman KK. Submitted. Spatial responses to pH, oxygen, and an oceanographic index increase the extent of projected range shifts in the Bering Sea. Fish and Fisheries. Forthcoming.

In Preparation

Siple M, Nielsen J, Andrews A, Eisner L, Siddon E, Sullaway G, **Barnes CL**, Gann J, Harris J, Kimmel D, Mordy C, Pirtle J, Rogers L, Rohan S, and Yasumiishi E. In prep. Climate-driven prey fields for small pelagics in the Bering Sea. TBD. Forthcoming.

Rovellini A, Punt AE, Kaplan IC, Dorn MW, Bryan MD, Fulton EA, Aydin KY, Adams GD, Baker MR, **Barnes CL**, Ferriss BE, Haltuch MA, Hermann AJ, McHuron EA, Morzaria-Luna HM, Norton EL, and Surma S. In prep. Evaluating groundfish optimum yield in the Gulf of Alaska under climate stress. TBD. Forthcoming.

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. TBD. Forthcoming.

Holsman KK, **Barnes CL**, Laurel BJ, and Hurst TP. In prep. Climate change and marine heatwaves induce declines in fish energetics and growth. TBD. Forthcoming.

Barnes CL, Waltz GT, Hamilton SL, Ruttenberg BI, Starr RM, and Brooks RO. In prep. Synchrony as a measure of resilience for temperate groundfish communities. TBD. Forthcoming.

Gerson PE, **Barnes CL**, Thorson JT, Pirtle JP, Reum JCP, Miller JA, and Rogers LA. In prep. Predators as samplers: using food habits data to inform climate- and community-driven shifts in habitat use by federally-managed groundfish species. TBD. Forthcoming.

Bargas MP, **Barnes CL**, Heppell SA, Rasmuson LK, and Cope JM. In prep. Biogeographic variation in black rockfish (*Sebastes melanops*) life history traits from California to Alaska. TBD. Forthcoming.

Superscripts correspond to items in 'AWARDS and HONORS'

MENTORSHIP

Graduate Students (*Faculty Advisor)

Research Assistants

J. Antus (2009) K. Ros (2010) A. Sloan (2014) H. Heath (2013-14) S. Robinson (2011)

Undergraduate Students

M. Adams [∇] (2024-P) S. Saadat (2010-11) D. Duncan (2013) L. Knopp (2009) A. Aines (2013) A. Feck (2009) K. Kuhn (2008) P. Saengcharoentrakul (2020-21) N. Siababa (2014) D. Anaya (2013) A. Gile (2015) J. Li (2020-21) K. Askeland (2010) N. Giraud (2009) S. Link (2016) E. Stollmeyer (2013) M. Bargas (2017) C. Giordano (2014) S. Lomonico (2014) H. Vernon (2024-P) K. Beck (2014) A. Hedger (2009) M. Mairz (2010) H. Wayner (2016-17) E. Bjork (2008) E. Hetherington (2009) R. McCollough (2013) D. Weir (2009) S. Briley (2008) F. Holman (2022-P) P. Muehlenbeck (2012)

K. Brown (2016)

F. Holman (2022-P)

P. Muenlenbeck (2012

R. Rand (2011-12)

A. Chorazyczewski (2014)

C. Hope (2018)

C. Hope (2018)

C. Hope (2010)

D. Rojano (2024-P)

E. Cunningham (2024-P)

Z. Johanson (2016)

M. Schmidt (2012)

C. Doles (2013) A. Kamber (2017) E. Schurig (2013)

 $^{
abla}$ supervised by graduate student

E TEACHING	
OREGON STATE UNIVERSITY	2024-P
Introduction to Fisheries Assessment (Graduate Course; eCampus)	
AMERICAN FISHERIES SOCIETY	2021
Spatiotemporal Analysis of Ecological Data (Conference Workshop)	2021
UNIVERSITY of ALASKA FAIRBANKS	
Making Ecological Inferences from Fisheries Data (Graduate Course; Guest Lecture)	2018
Field Methods in Marine Ecology and Fisheries (Undergraduate Course)	2017
UNIVERSITY of ALASKA SOUTHEAST: INTRO. to ALASKA FISHERIES – Juneau, AK Pacific Halibut Biology, Ecology, and Management (Undergraduate Course; Guest Lecture)	2016
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM – Moss Landing, CA 2014, 201	3, 2012
MPA Survey Objectives and Protocols (Multi-institutional Training)	
SAN DIEGO OCEANS FOUNDATION	
Ocean In Motion (K-12 Marine Science Education Program) 200	08-2010
<u> </u>	08-2010
FI PRESENTATIONS	
₽ PRESENTATIONS	
68 NWFSC MONSTER JAM SEMINAR SERIES (Virtual)	2024
— Navigating uncertainty through stakeholder engagement and integrated approaches to fisheries science	2024
 LOWELL WAKEFIELD FISHERIES SYMPOSIUM (Sitka, AK) Working together to account for space as baselines, barometers, and best-guesses 	2024
66 HATFIELD MARINE SCIENCE CENTER, OSU (Newport, OR)	2023
— Navigating uncertainty through stakeholder engagement and integrated approaches to fisheries science	2023
65 WESTERN GROUNDFISH CONFERENCE (Juneau, AK)	2023
 Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat associati 	ons
⁶³⁻⁶⁴ ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Fairbanks, AK)	2023
Climate-informed models benefit hindcasting but present challenges for forecasting species- habitat associations.	
habitat associations — Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU	
62 OREGON CHAPTER of the AMERICAN FISHERIES SOCIETY (Eugene, OR)	2023
 Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU 	2023
60-61 WESTERN SOCIETY of NATURALISTS (Oxnard, CA)	2023
 Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat associati 	ons
 Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU 	
59 HATFIELD MARINE SCIENCE CENTER (Newport, OR)	
— Using collaborative fisheries science to strengthen ecological inferences in the North Pacific	2022
 58 ECOSYSTEM STUDIES of SUBARCTIC AND ARTIC SEAS (Seattle, WA) — Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat associati 	2022
57 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Virtual)	2022
 Model complexity has contrasting effects for hindcasting and forecasting species responses to climate change 	
56 WESTERN SOCIETY of NATURALISTS (Virtual)	2021
 Model complexity has contrasting effects for hindcasting and forecasting species responses to climate chang 	
⁵⁵ CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY (Virtual)	2021
 Predation as a modifier of constant natural mortality for Gulf of Alaska pollock 	
⁵⁴ ALASKA MARINE SCIENCE SYMPOSIUM (Anchorage, AK)	2020
— Development of a predation index to assess trophic stability in the Gulf of Alaska	
 52-53 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Sitka, AK) — Assessing the potential for competition between Pacific Halibut and Arrowtooth Flounder in the Gulf of Alas 	2019
 — Assessing the potential for competition between Pacific Halibut and Arrowtooth Flounder in the Gulf of Ale — Spatiotemporal variation in consumption of Walleye Pollock by major groundfish predators in the Gulf of Ale 	

I PRESENTATIONS, CONT'D I PRESENTATIONS, C	
⁵¹ PICES (Victoria, BC)	2019
 Ecological interactions among groundfish species in the Gulf of Alaska 	
 POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER (Anchorage, AK) Ecological interactions among groundfish species in the Gulf of Alaska 	2019
 49 RASMUSON FISHERIES RESEARCH CENTER (Anchorage, AK) — Ecological interactions among groundfish species in the Gulf of Alaska 	2019
⁴⁸ LOWELL WAKEFIELD FISHERIES SYMPOSIUM (Anchorage, AK)	2019
 Comparative resource use by two groundfish species in nearshore SE Alaska ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR (Seattle, WA) 	2018
— Ecological interactions among major groundfish species in the Gulf of Alaska	
 WESTERN DIVISION of the AMERICAN FISHERIES SOCIETY (Anchorage, AK) — Assessing the potential for competition between P. Halibut and Arrowtooth Flounder in the Gulf of Alaska 	2018
 45 INTERNATIONAL PACIFIC HALIBUT COMMISSION SEMINAR SERIES (Seattle, WA) — Assessing the potential for competition between P. Halibut and Arrowtooth Flounder in the Gulf of Alaska 	2018
44 POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER (Anchorage, AK) — Ecological interactions among groundfish species in the Gulf of Alaska	2018
⁴³ RASMUSON FISHERIES RESEARCH CENTER (Anchorage, AK)	2018
— Ecological interactions among groundfish species in the Gulf of Alaska	2010
⁴² UNIVERSITY of ALASKA FAIRBANKS: AQUATIC FOOD WEB ECOLOGY (Juneau, AK) — Making ecological inferences from fisheries data	2018
41 WESTERN GROUNDFISH CONFERENCE (Monterey, CA)	2018
 — A comparative assessment of resource use by P. Halibut and Arrowtooth Flounder throughout the Gulf of Alaska [∞] 	2010
 WESTERN SOCIETY of NATURALISTS (Tacoma, WA) The potential for competition between Pacific Halibut and Arrowtooth Flounder in the Gulf of Alaska 	2018
 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Fairbanks, AK) A comparative assessment of resource use by P. Halibut and Arrowtooth Flounder throughout the Gulf of Alas 	2017
 A comparative assessment of resource use by F. Hambut and Arrowtooth Hounder throughout the Gulf of Alas WESTERN DIV. of the AMERICAN FISHERIES SOCIETY: STUDENT COLLOQUIUM (McCall, ID) A comparative assessment of resource use by two groundfish species from nearshore waters of SE Alaska 	2017
 ALASKA MARINE SCIENCE SYMPOSIUM (Anchorage, AK) — Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska 	2017
 POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER (Anchorage, AK) Ecological interactions among groundfish species in the Gulf of Alaska 	2017
 35 ALASKA MARINE SCIENCE SYMPOSIUM (Anchorage, AK) — Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska 	2016
³³⁻³⁴ POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER (Anchorage, AK)	2016
 Developing an index of predation to improve the assessment of Walleye Pollock in the Gulf of Alaska Ecological interactions among groundfish species in the Gulf of Alaska 	
 UNIVERSITY of ALASKA SOUTHEAST (Juneau, AK) Introduction to AK Fisheries Seminar: Pacific Halibut biology, ecology, management 	2016
30-31 WESTERN GROUNDFISH CONFERENCE (Newport, OR)	2016
 Growth, mortality, and reproductive seasonality of California Halibut: a biogeographic approach Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska † 	
²⁹ WESTERN SOCIETY of NATURALISTS (Monterey, CA)	2016
 A comparative assessment of resource use by Pacific Halibut and Arrowtooth Flounder from nearshore waters of Southeast Alaska: results from a small-scale field study 	
²⁸ ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY: STUDENT SYMPOSIUM (Juneau, AK) — Growth, mortality, and reproductive seasonality of California Halibut: a biogeographic approach	2015

PRESENTATIONS, CONT'D ²⁶⁻²⁷ ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Homer, AK) 2015 Effects of demography, trophic interactions, and the environment on major groundfish species in the Gulf of Alaska Exploring environmental and demographic drivers of resource overlap among Pacific Halibut, Arrowtooth Flounder, and Walleye Pollock in the Gulf of Alaska ²⁵ LOWELL WAKEFIELD FISHERIES SYMPOSIUM (Anchorage, AK) 2015 Growth, mortality, and reproductive seasonality of California Halibut ²³⁻²⁴CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (Half Moon Bay & Moss Landing, CA) 2014 Research objectives, data collection, analyses, and project results MPA monitoring and other project results from 2013 ²² INTERNATIONAL FLATFISH SYMPOSIUM (Cle Elum, WA) 2014 Age, growth, and reproductive potential of California Halibut ²¹ MARINE: OCEANS COLLOQUIUM (Moss Landing, CA) 2014 Reproductive biology of California Halibut: results from the Central Coast ²⁰ MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS (Seaside, CA) 2014 Reproductive biology of California Halibut: results from the Central Coast ¹⁹ MOSS LANDING MARINE LABORATORIES, OPEN HOUSE (Moss Landing, CA) 2014 — Flatfish fecundity: evaluating the reproductive nature of a prolific spawner in and around Monterey Bay ¹⁸ MPA COLLABORATIVE NETWORK (Monterey, CA) 2014 Key findings from monitoring Monterey Bay's marine protected areas ¹⁶⁻¹⁷ WESTERN GROUNDFISH CONFERENCE (Victoria, BC) 2014 — MPA monitoring: more than just the latest and greatest in marine conservation trends Reproductive biology of California Halibut: results from the Central Coast ¹⁵ WESTERN SOCIETY of NATURALISTS (Tacoma, WA) 2014 Reproductive biology of California Halibut: evidence from the Central Coast 13-14 CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (Half Moon Bay & Moss Landing, CA) 2013 — Research objectives, data collection, analyses, and project results MPA monitoring and other project results from 2012 ¹² CALIFORNIA DEPARTMENT of FISH and WILDLIFE (Belmont, CA) 2013 The California Collaborative Fisheries Research Program: objectives, results, and interpretations ¹¹ MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS (Seaside, CA) 2013 Reproductive characteristics of California Halibut off central California 10 MOSS LANDING MARINE LABORATORIES, OPEN HOUSE (Moss Landing, CA) 2013 — Spawning characteristics of California Halibut in Monterey Bay ⁸ WESTERN SOCIETY of NATURALISTS (Oxnard, CA) 2013 Reproductive biology of California Halibut: evidence from the Central Coast ⁶⁻⁷ CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (Half Moon Bay & Moss Landing, CA) 2012 Research objectives, data collection, analyses, and project results MPA monitoring and other project results from 2011 ⁵ EXPANDING YOUR HORIZONS NETWORK (Monterey, CA) 2012 — Fishing for our future: fisheries biology and resource management ⁴ MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS (Seaside, CA) 2012 Collaborative fisheries research: a transition from data-poor to data-rich management ³ MOSS LANDING MARINE LABORATORIES, OPEN HOUSE (Moss Landing, CA) 2012 — Fishing for science: the California Collaborative Fisheries Research Program ² WESTERN GROUNDFISH CONFERENCE (Seattle, WA) 2012 Collaborative fisheries research: a transition from data-poor to data-rich management ¹ SAN DIEGO BAY SYMPOSIUM (San Diego, CA) 2009 SDOF's White Seabass Restoration Project and its relevance to San Diego Bay

PROFESSIONAL SERVICE AND OUTREACH ACTIVITIES PEER REVIEWER	
Bulletin of the Southern California Academy of Sciences Ecography Ecosphere Exxon Valdez Oil Spill Trustee Council Fisheries Research Fishery Bulletin	ICES Journal of Marine Science Journal of Applied Ecology Journal of Fish Biology Marine Environmental Research PLoS ONE
SCIENTIFIC and STATISTICAL COMMITTEE, PACIFIC FISHERY	
Stock Assessment Review (STAR) Panelist, Pacific Sardine	2024
Stock Assessment Team (STAT) Member, CA Black Rockfish	2023
OREGON STATE UNIVERSITY Department of Fisheries, Wildlife, and Conservation Science	oc
Graduate Committee	2023-P
Search Committee, Assistant Professor in Ichthyology Hatfield Marine Science Center	2023-P
Marine Science Day	2023; 2024
Markham Scholarship Selection Committee	2023; 2024
INTERNATIONAL FLATFISH SYMPOSIUM	
Steering Committee	2023-P
AMERICAN FISHERIES SOCIETY, ALASKA CHAPTER	2024 B 2022
Professional Mentor; Peer Mentor Diversity, Equity, and Inclusion Committee (Chair)	2021-P; 2020 2018-P
Diversity, Equity, and Inclusion Committee (Chair) Annual Meeting Planning Committee	2017-2023
Program, Awards (co-Chair), and Entertainment Committees	
Student Representative, Executive Committee	2015-2017
AMERICAN FISHERIES SOCIETY, WESTERN DIVISION	
Diversity and Inclusion Committee	2018-2024
Annual Meeting Planning Committee	2021
NEWPORT PRIDE	2022 2022
Planning Committee and Founding Board of Directors	2022-2023
AMERICAN FISHERIES SOCIETY	2021 2022
Diversity, Equity, and Inclusion Committee	2021-2023
WESTERN GROUNDFISH CONFERENCE Steering Committee	2019-2023
WESTERN SOCIETY of NATURALISTS (WSN)	2013-2023
Diversity, Equity, and Inclusion Committee	2018-2022
SKYPE a SCIENTIST, Volunteer	2018-2022
ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA),	2010-2022
Gender Equity Working Group	2021
SOUTHEAST ALASKA LGBTQIA+ ALLIANCE	_02.
Board Member; Volunteer	2018-2019; 2015-2019
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2018-2019 2017-2019

2018

UNIVERSITY of ALASKA FAIRBANKS

Search Committee, Assistant Professor in Quantitative Fisheries Graduate Academic and Advising Committee Professional Development Workshop Organizer

₩ PROFESSIONAL SERVICE AND OUTREACH ACTIVITIES, CONT'D	
SITKA SOUND SCIENCE CENTER Scientist in the Schools Volunteer	2018
PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS Volunteer	2013-2014, 2018
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 STATE UNIVERSITY Graduate Research Assistant	2010
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

ASSOCIATIONS, CERTIFICATIONS, AND SELECT TRAININGS	
500 QUEER SCIENTISTS, Member	2017-F
ALASKA CLIMATE INTEGRATED MODELING (ACLIM), Collaborator	2020-Г
ALASKA MARINE SAFETY EDUCATION ASSOC – Cold Water Survival; Skiff Operator	2015, 2017
AMERICAN ACADEMY of UNDERWATER SCIENCES, Scientific Diver; Member	2010-F
AMERICAN ASSOCIATION for the ADVANCEMENT of SCIENCE, Member	2016-F
AMERICAN FISHERIES SOCIETY, Western Division and Alaska Chapter Member	2015-F
AMERICAN INSTITUTE of FISHERY RESEARCH BIOLOGISTS, Member	2019-F
AMERICAN RED CROSS – CPR, AED, First Aid, and Administering Emergency O ₂ Lifeguard and Water Safety Instructor; Fundamentals of Instructor Training	2006-2015 2006-2008
AMERICAN STATISTICAL ASSOCIATION, Alaska Chapter Member	2019-F
CA DEPARTMENT 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)	
Working with the IACUC; Field and Lab Animal Researchers	2015-F
ECOLOGICAL SOCIETY of AMERICA, Member	2019-F
EPSCoR, Mindful Leadership: Creating a Diverse and Inclusive UA Workshop Participant	t 2018
EQUAL EMPLOYMENT OPPORTUNITY COMM., Beyond the Binary Workshop Particip	oant 2021
GULF of ALASKA CLIMATE INTEGRATED MODELING (GOACLIM) PROJECT	2022-F
MORALE, WELFARE, and RECREATION, COMM. FLEET ACT, Power Boat Operator	2007
MPA COLLABORATIVE NETWORK, Participant	2011-2014
NATIONAL ASSOCIATION of UNDERWATER INSTRUCTORS Master SCUBA Diver; Nitrox Diver	2010
NATIONAL CENTER for FACULTY DIVERSITY and DEVELOPMENT Faculty Success Program Participant	2023
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	2019-F
PROFESSIONAL ASSOCIATION of DIVING INSTRUCTORS Open Water, Advanced Open Water, Rescue Diver; Dive Master 2006, 20	007, 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; Creating More Inclusive Spaces in STEM Workshop Participant	2022-P; 2027
TRIMBLE, Intermediate Mapping and GIS Certificate	2011
UNITED STATES COAST GUARD, Small Vessel Operator	2015
WESTERN SOCIETY of NATURALISTS, Member	2010-F