# **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



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<b>©</b> 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)	
OREGON STATE UNIVERSITY (OSU)	
Assistant Professor in Marine Fisheries	2023-P
SCIENTIFIC and STATISTICAL COMMITTEE (SSC), PACIFIC FISHERY MANAGEMENT ( Appointment, Oregon Department of Fish and Wildlife Representative Vice Chair, Groundfish Subcommittee Member, Ecosystem-based Management Subcommittee Member, Highly Migratory Species Subcommittee	COUNCIL 2023-P
COOPERATIVE INSTITUTE for CLIMATE, OCEAN, and ECOSYSTEM STUDIES (CICOES	o)
UNIVERSITY of WASHINGTON – Seattle, WA	
Research Scientist Postdoctoral Scholar	2022-2023 2020-2022
	2020-2022
SCALE BACK CONSULTING, LLC – Anchorage, AK Principal Investigator	2020-2023
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK	_0_0_0
Research Assistant	2015-2019
Teaching Assistant	2017
${\sf CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~Landing,~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~CA~COLLABORATIVE~FISHERIES~RESEARCH~PROGRAM~(CCFRP)-Moss~CA~CA~CA~CA~CA~CA~CA~CA~CA~CA~CA~CA~CA~$	
Lead Scientist	2011-2014
Volunteer Coordinator	2010-2011
Science Crew  CALIFORNIA SEA CRANIT San Diogo CA	2010
CALIFORNIA SEA GRANT – San Diego, CA Extension Program Representative	2010-2014
SAN DIEGO OCEANS FOUNDATION (SDOF) – San Diego, CA	2010 2011
Programs and Outreach Director	2008-2010
Marine Science Education Program Coordinator	2008
MWR: COMMANDER FLEET ACTIVITIES – Sasebo, Japan	
Head Lifeguard	2007-2008
Water Safety Instructor	2007-2008
Lifeguard	2006-2007

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 Societ	y 2021
Top 10 Most Downloaded Papers , Ecological Applications	2020
W.F. Thompson Award (Best Student Paper from 2018*), American Institute of Fishery Bio	logists 2019
Dean's Recognition Award - Outstanding Graduate Student, UAF	2019
First Place – Student Talk <sup>∞</sup> , 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	15, 2019, 2024
l /	15, 2017, 2018
	14, 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	f 'presentations'
GRANTS AND FELLOWSHIPS	
Magnuson-Stevens Act Implementation, NOAA Fisheries	
Pls: CL Barnes, PD Spencer, M Szymkowiak – <b>\$90,736</b>	2024
Climate and Fisheries Adaptation (CAFA) Program, NOAA Fisheries	
Alaska Climate Integrated Modeling (ACLIM) Project, Phase III – \$527,895	2024
Pls: KY Aydin, KK Holsman, CS Szuwalski, SP Wise; Collaborators: CL Barnes, JCP Reum	
Gulf of Alaska Climate Integrated Modeling (GOACLIM) Project, Phase II – \$230,130	2024
Pls: CL Barnes, MD Bryan, MW Dorn, CR McGilliard, AE Punt; Collaborator: JCP Reum	2024
Pacific Fishery Management Council – <b>\$40,056</b> Alaska Regional Office and Alaska Fisheries Science Center, NOAA (co-PI: JT Thorson) – <b>\$12</b> 2	
	<b>2,995</b> 2024 2024
Branch Experiment Station Research Internship (College of Agr. Sciences, OSU) – <b>\$7,500</b> Marine Studies Initiative Advancement Award (Madison Bargas, MS Thesis) – <b>\$3,950</b>	2024
Alaska Regional Office, NOAA (co-Pls: J Pirtle, JT Thorson) – \$104,121	2024
Alaska Sea Grant Program Development Award (AK Chapter AFS) – \$8,850	2023
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) – \$229,30	,
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) – <b>\$201,516</b>	2015-2019
SJSU Associated Students Advocacy Award; Graduate Equity Fellowship – \$500; \$3,000 20	
Santa Monica Seafood's Responsible Sourcing Vendor Partner Grant (CCFRP) – <b>\$15,000</b>	2013-2014
Clarence F. and Lyle V. Burmahln Scholarship – \$500	2013
Dr. Earl and Ethel Myers Oceanographic and Marine Biol. Trust Grant – \$1,500	2013
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 – <b>\$1,000</b>	2013
CSU Council on Ocean Affairs, Science, and Technology Graduate Student Award – \$3,00	



#### 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.
- 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 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.

Superscripts correspond to items in 'AWARDS and HONORS'

### 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'

S. Saadat (2010-11)

#### **\*\*\* MENTORSHIP**

#### Graduate Students (\*Faculty Advisor)

M. Bargas<sup>+</sup> (MS, IP)

G. Christie (MS, IP)

H. Delgado-Nordmann (MS, 2016)

N. Fillman (PhD, IP)

G. Hunt (MS, 2015)

M. Monneedy (MS, IP)

J. Hansen<sup>+</sup> (PhD, IP)

#### Research Assistants

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

## Undergraduate Students M. Adams (2024-P)

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)

L. Knopp (2009)

K. Brown (2016)

F. Hollian (2022-P)

F. Muetherbeck (2012)

R. Rand (2011-12)

 A. Chorazyczewski (2014)
 C. Hope (2010)
 D. Rojano (2024-P)

 E. Cunningham <sup>∇</sup> (2024-P)
 Z. Johanson (2016)
 M. Schmidt (2012)

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

D. Duncan (2013)

 $^{\nabla}$  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)	
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 MPA Survey Objectives and Protocols (Multi-institutional Training)  2014,	2013, 2012
SAN DIEGO OCEANS FOUNDATION	
Ocean In Motion (K-12 Marine Science Education Program)	2008-2010
REEF Survey Methods and Species Identifications (Community Science Training Program)	2008-2010
<b>₽ PRESENTATIONS</b>	
<sup>68</sup> NWFSC MONSTER JAM SEMINAR SERIES (Virtual)	2024
<ul> <li>Navigating uncertainty through stakeholder engagement and integrated approaches to fisheries science</li> </ul>	
<ul> <li>LOWELL WAKEFIELD FISHERIES SYMPOSIUM (Sitka, AK)</li> <li>Working together to account for space in the form of baselines, barometers, and best-guesses</li> </ul>	2024
<ul> <li>66 HATFIELD MARINE SCIENCE CENTER, OSU (Newport, OR)</li> <li>— Navigating uncertainty through stakeholder engagement and integrated approaches to fisheries science</li> </ul>	2023
65 WESTERN GROUNDFISH CONFERENCE (Juneau, AK)	2023
— Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat ass	
63-64 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Fairbanks, AK)  — Climate-informed models benefit hindcasting but present challenges for forecasting species habitat asset	2023 ociations
— Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU	2022
<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>	2023
60-61 WESTERN SOCIETY of NATURALISTS (Oxnard, CA)	2023
<ul> <li>Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat ass</li> <li>Prospective students: new opportunities with the Integrated Marine Fisheries Lab at OSU</li> </ul>	
<ul> <li>HATFIELD MARINE SCIENCE CENTER (Newport, OR)</li> <li>Using collaborative fisheries science to strengthen ecological inferences in the North Pacific</li> </ul>	
<ul> <li>58 ECOSYSTEM STUDIES of SUBARCTIC AND ARTIC SEAS (Seattle, WA)</li> <li>— Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat ass</li> </ul>	2022 ociations
<ul> <li>57 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Virtual)</li> <li>— Model complexity has contrasting effects for hindcasting and forecasting species responses to climate of the contrasting effects for hindcasting and forecasting species responses to climate of the contrasting effects for hindcasting and forecasting species responses to climate of the contrasting effects for hindcasting and forecasting species responses to climate of the contrasting effects for hindcasting and forecasting species responses to climate of the contrasting effects for hindcasting and forecasting species responses to climate of the contrasting effects for hindcasting and forecasting species responses to climate of the contrasting effects for hindcasting effects.</li> </ul>	2022
<sup>56</sup> WESTERN SOCIETY of NATURALISTS (Virtual)	2021
<ul> <li>Model complexity has contrasting effects for hindcasting and forecasting species responses to climate of</li> </ul>	
<ul> <li>55 CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY (Virtual)</li> <li>— Predation as a modifier of constant natural mortality for Gulf of Alaska pollock</li> </ul>	2021
<sup>54</sup> ALASKA MARINE SCIENCE SYMPOSIUM (Anchorage, AK)	2020
— Development of a predation index to assess trophic stability in the Gulf of Alaska	
<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 c</li> <li>— Spatiotemporal variation in consumption of Walleye Pollock by major groundfish predators in the Gulf</li> </ul>	

Symbols correspond to items in 'AWARDS and HONORS'

₩ PRESENTATIONS, CONT'D	
<sup>51</sup> PICES (Victoria, BC)	2019
— Ecological interactions among groundfish species in the Gulf of Alaska	
<ul> <li>FOLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER (Anchorage, AK)</li> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	2019
49 RASMUSON FISHERIES RESEARCH CENTER (Anchorage, AK)	2019
— Ecological interactions among groundfish species in the Gulf of Alaska	2013
<sup>48</sup> LOWELL WAKEFIELD FISHERIES SYMPOSIUM (Anchorage, AK)	2019
<ul> <li>Comparative resource use by two groundfish species in nearshore SE Alaska</li> </ul>	
<ul> <li><sup>47</sup> ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR (Seattle, WA)</li> <li>— Ecological interactions among major groundfish species in the Gulf of Alaska</li> </ul>	2018
<ul> <li>WESTERN DIVISION of the AMERICAN FISHERIES SOCIETY (Anchorage, AK)</li> <li>— Assessing the potential for competition between P. Halibut and Arrowtooth Flounder in the Gulf of Alaska</li> </ul>	2018
<ul> <li>45 INTERNATIONAL PACIFIC HALIBUT COMMISSION SEMINAR SERIES (Seattle, WA)</li> <li>— Assessing the potential for competition between P. Halibut and Arrowtooth Flounder in the Gulf of Alaska</li> </ul>	2018
44 POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER (Anchorage, AK)	2018
— Ecological interactions among groundfish species in the Gulf of Alaska	
<ul> <li>43 RASMUSON FISHERIES RESEARCH CENTER (Anchorage, AK)</li> <li>— Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	2018
<sup>42</sup> UNIVERSITY of ALASKA FAIRBANKS: AQUATIC FOOD WEB ECOLOGY (Juneau, AK)	2018
Making ecological inferences from fisheries data	20.0
<sup>41</sup> WESTERN GROUNDFISH CONFERENCE (Monterey, CA)	2018
— A comparative assessment of resource use by P. Halibut and Arrowtooth Flounder throughout the Gulf of Alaska $^{\infty}$	
40 WESTERN SOCIETY of NATURALISTS (Tacoma, WA)	2018
— The potential for competition between Pacific Halibut and Arrowtooth Flounder in the Gulf of Alaska	2010
<sup>39</sup> ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY (Fairbanks, AK)	2017
<ul> <li>A comparative assessment of resource use by P. Halibut and Arrowtooth Flounder throughout the Gulf of Alask</li> </ul>	ка
<ul> <li>WESTERN DIV. of the AMERICAN FISHERIES SOCIETY: STUDENT COLLOQUIUM (McCall, ID)</li> <li>A comparative assessment of resource use by two groundfish species from nearshore waters of SE Alaska</li> </ul>	2017
<sup>37</sup> ALASKA MARINE SCIENCE SYMPOSIUM (Anchorage, AK)	2017
<ul> <li>Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska</li> </ul>	
<ul> <li>POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER (Anchorage, AK)</li> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	2017
35 ALASKA MARINE SCIENCE SYMPOSIUM (Anchorage, AK)	2016
— Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska	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> </ul>	2016
<ul> <li>Ecological interactions among groundfish species in the Gulf of Alaska</li> </ul>	
<sup>32</sup> UNIVERSITY of ALASKA SOUTHEAST (Juneau, AK)	2016
— Introduction to AK Fisheries Seminar: Pacific Halibut biology, ecology, management 30-31 WESTERN GROUNDFISH CONFERENCE (Newport, OR)	2016
— Growth, mortality, and reproductive seasonality of California Halibut: a biogeographic approach	2016
— Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska †	
<sup>29</sup> WESTERN SOCIETY of NATURALISTS (Monterey, CA)	2016
<ul> <li>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</li> </ul>	
<sup>28</sup> ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY: STUDENT SYMPOSIUM (Juneau, AK)	2015
— Growth, mortality, and reproductive seasonality of California Halibut: a biogeographic approach	2013
Symbols correspond to items in 'AWARDS and Ho	ONORS'

#### **PRESENTATIONS**, CONT'D <sup>26-27</sup> 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 <sup>25</sup> LOWELL WAKEFIELD FISHERIES SYMPOSIUM (Anchorage, AK) 2015 Growth, mortality, and reproductive seasonality of California Halibut <sup>23-24</sup>CA 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 <sup>22</sup> INTERNATIONAL FLATFISH SYMPOSIUM (Cle Elum, WA) 2014 Age, growth, and reproductive potential of California Halibut <sup>21</sup> MARINE: OCEANS COLLOQUIUM (Moss Landing, CA) 2014 Reproductive biology of California Halibut: results from the Central Coast <sup>20</sup> MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS (Seaside, CA) 2014 Reproductive biology of California Halibut: results from the Central Coast <sup>19</sup> 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 <sup>18</sup> MPA COLLABORATIVE NETWORK (Monterey, CA) 2014 Key findings from monitoring Monterey Bay's marine protected areas <sup>16-17</sup> 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 <sup>15</sup> 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 <sup>12</sup> 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 <sup>10</sup> MOSS LANDING MARINE LABORATORIES, OPEN HOUSE (Moss Landing, CA) 2013 — Spawning characteristics of California Halibut in Monterey Bay <sup>8</sup>WESTERN SOCIETY of NATURALISTS (Oxnard, CA) 2013 Reproductive biology of California Halibut: evidence from the Central Coast <sup>6-7</sup> 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 <sup>5</sup> EXPANDING YOUR HORIZONS NETWORK (Monterey, CA) 2012 Fishing for our future: fisheries biology and resource management <sup>4</sup> MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS (Seaside, CA) 2012 Collaborative fisheries research: a transition from data-poor to data-rich management <sup>3</sup> MOSS LANDING MARINE LABORATORIES, OPEN HOUSE (Moss Landing, CA) 2012 — Fishing for science: the California Collaborative Fisheries Research Program <sup>2</sup> WESTERN GROUNDFISH CONFERENCE (Seattle, WA) 2012 — Collaborative fisheries research: a transition from data-poor to data-rich management <sup>1</sup> SAN DIEGO BAY SYMPOSIUM (San Diego, CA) 2009 SDOF's White Seabass Restoration Project and its relevance to San Diego Bay Symbols correspond to items in 'AWARDS and HONORS'

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 I Stock Assessment Review (STAR) Panelist, Pacific Sardine Stock Assessment Team (STAT) Member, CA Black Rockfish	MANAGEMENT COUNCIL 2024 2023
OREGON STATE UNIVERSITY Department of Fisheries, Wildlife, and Conservation Sciences Graduate Committee Search Committee, Assistant Professor in Ichthyology Hatfield Marine Science Center Marine Science Day; Markham Scholarship Selection Comm	2023-P 2023-P mittee 2023; 2024
INTERNATIONAL FLATFISH SYMPOSIUM Steering Committee	2023, 2024 2023-P
AMERICAN FISHERIES SOCIETY, ALASKA CHAPTER Professional Mentor; Peer Mentor Diversity, Equity, and Inclusion Committee (Chair) Annual Meeting Planning Committee Program, Awards (co-Chair), and Entertainment Committees Student Representative, Executive Committee	2021-P; 2020 2018-P 2017-2023 2018-2019 2015-2017
AMERICAN FISHERIES SOCIETY, WESTERN DIVISION Diversity and Inclusion Committee Annual Meeting Planning Committee	2018-2024 2021
NEWPORT PRIDE Planning Committee and Founding Board of Directors	2022-2023
AMERICAN FISHERIES SOCIETY Diversity, Equity, and Inclusion Committee WESTERN GROUNDFISH CONFERENCE	2021-2023
Steering Committee WESTERN SOCIETY of NATURALISTS (WSN)	2019-2023
Diversity, Equity, and Inclusion Committee	2018-2022
SKYPE a SCIENTIST, Volunteer  ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA),	2018-2022
Gender Equity Working Group SOUTHEAST ALASKA LGBTQIA+ ALLIANCE	2021
Board Member; Volunteer UNIVERSITY of ALASKA FAIRBANKS	2018-2019; 2015-2019
Search Committee, Assistant Professor in Quantitative Fisheric Graduate Academic and Advising Committee Professional Development Workshop Organizer	2018-2019 2017-2019 2018

**PROFESSIONAL SERVICE AND OUTREACH ACTIVITIES** 

PEER REVIEWER

₩ 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

SELECT ASSOCIATIONS, CERTIFICATIONS, AND TRAININGS	
500 QUEER SCIENTISTS, Member	2017-P
ALASKA CLIMATE INTEGRATED MODELING (ACLIM) PROJECT	
Principal Investigator	2020-P
ALASKA MARINE SAFETY EDUCATION ASSOCIATION	
Cold Water Survival; Skiff Operator	2015, 2017
AMERICAN ACADEMY of UNDERWATER SCIENCES, Scientific Diver; Member	2010-P
AMERICAN ASSOCIATION for the ADVANCEMENT of SCIENCE, Member	2016-P
AMERICAN FISHERIES SOCIETY, Member	2015-P
AMERICAN INSTITUTE of FISHERY RESEARCH BIOLOGISTS, Member	2019-P
AMERICAN RED CROSS - CPR, AED, First Aid, and Administering Emergency O	$O_2$ 2006-2015
Lifeguard and Water Safety Instructor; Fundamentals of Instructor Training	2006-2008
AMERICAN STATISTICAL ASSOCIATION, Member	2019-P
CA DEPARTMENT of BOATING and WATERWAYS, Boating Education Certificat	e 2011
CA OCEAN SCIENCE TRUST, CA Citizen Science Initiative	2014
COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE (CITI)	
Working with the IACUC; Field and Lab Animal Researchers	2015-P
ECOLOGICAL SOCIETY of AMERICA, Member	2019-P
EPSCoR, Mindful Leadership: Creating a Diverse and Inclusive UA Workshop	2018
EQUAL EMPLOYMENT OPPORTUNITY COMM., Beyond the Binary Workshop	2021
GULF of ALASKA CLIMATE INTEGRATED MODELING (GOACLIM) PROJECT	
Principal Investigator	2022-P
MORALE, WELFARE, and RECREATION, COMM. FLEET ACT, Power Boat Oper	
MPA COLLABORATIVE NETWORK, Member	2011-2014
NATIONAL ASSOCIATION of UNDERWATER INSTRUCTORS	2010
Master SCUBA Diver; Nitrox Diver	2010
NATIONAL CENTER for FACULTY DIVERSITY and DEVELOPMENT	2022
Faculty Success Program	2023
NATIONAL CENTER for ECOLOGICAL ANALYSIS and SYNTHESIS (NCEAS) Reproducible Research Techniques for Synthesis Workshop	2019
NATIONAL COUNCIL for BEHAVIORAL HEALTH, Mental Health First Aid USA	
NOAA PRIDE EMPLOYEE RESOURCE GROUP, Member	2020-2023
· · · · · · · · · · · · · · · · · · ·	2020-2023 2019-P
oSTEM, Member	2019-P
PROFESSIONAL ASSOCIATION of DIVING INSTRUCTORS Open Water, Advanced Open Water, Rescue Diver; Dive Master	2006, 2007, 2009; 2010
REEF CHECK CALIFORNIA	2000, 2007, 2009, 2010
Uniform Point Contact, Algae, Invertebrate, and Fish Surveyor	2010
REEF ENVIRONMENTAL EDUCATION FOUNDATION (REEF)	2010
Marine Algal, Invertebrate, and Expert Fish Surveyor	2008
SACNAS, Member; Creating More Inclusive Spaces in STEM Workshop	2022-P; 2021
TRIMBLE, Intermediate Mapping and GIS Certificate	2011
UNITED STATES COAST GUARD, Small Vessel Operator	2015
WESTERN SOCIETY of NATURALISTS, Member	2010-P
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