w: cheryl-barnes.github.io

2006 to 2007

EDUCATION	
PhD, Fisheries UNIVERSITY of ALASKA FAIRBANKS (UAF) — Collaborators: Anne H. Beaudreau (UAF), Lorenzo Ciannelli (OSU), Martin W. Dorn (AFSC, NOAA), Kirstin K. Holsman (AFSC, NO Mary E. Hunsicker (NWFSC, NOAA), Franz J. Mueter (UAF), Terrance J. Quinn II (UAF), Richard N. Yamada (AK Charter Ass	
MS, Marine Science MOSS LANDING MARINE LABORATORIES (MLML) Degree awarded by San José State University (SJSU) — Collaborators: Richard M. Starr (MLML), Scott L. Hamilton (MLML), James T. Harvey (MLML), Kristine M. Lesyna (CDFW), Paul M. Reilly (CDFW), Travis H. Tanaka (CDFW)	2015
BS, Biology SAN DIEGO STATE UNIVERSITY (SDSU) Emphasis: Marine Biology	2006
PROFESSIONAL EXPERIENCE (2006 to Date)	
COASTAL OREGON MARINE EXPERIMENT STATION DEPARTMENT OF FISHERIES, WILDLIFE, AND CONSERVATION SCIENCES OREGON STATE UNIVERSITY	2022 to
Assistant Professor in Marine Fisheries	2023 to present
COOPERATIVE INSTITUTE for CLIMATE, OCEAN, and ECOSYSTEM STUDIES (CICOES) UNIVERSITY of WASHINGTON – Seattle, WA ALASKA FISHERIES SCIENCE CENTER, NOAA – Seattle, WA ALASKA REGIONAL OFFICE, NOAA – Juneau, AK	
Research Scientist Postdoctoral Scholar	2022 to 2023 2020 to 2022
SCALE BACK CONSULTING, LLC – Anchorage, AK Principal Investigator	2020 to present
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK Research Assistant	2015 to 2019
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (CCFRP) – Moss Landing, CA Lead Scientist Volunteer Coordinator Science Crew	2011 to 2014 2010 to 2011 2010
CALIFORNIA SEA GRANT – San Diego, CA Extension Program Representative	2010 to 2014
SAN DIEGO OCEANS FOUNDATION (SDOF) – San Diego, CA Programs and Outreach Director Marine Science Education Program Coordinator	2008 to 2010 2008
MWR: COMMANDER FLEET ACTIVITIES – Sasebo, Japan Head Lifeguard and Water Safety Instructor	2007 to 2008

Lifeguard

TEACHING EXPERIENCE				
AMERICAN FISHERIES SO Co-instructor: Spatiote	CIETY – Virtual Worksho mporal Analysis of Ecolo _s	•		2021
UNIVERSITY of ALASKA F	AIRBANKS – Juneau, AK			
	g Ecological Inferences fr			2018
Teaching Assistant: Fie	ld Methods in Marine Eco	ology and Fisheries		2017
	OUTHEAST: INTRO. to A Halibut Biology, Ecology	ALASKA FISHERIES – Juneau, , and Management	AK	2016
		GRAM – Moss Landing, CA urvey Objectives and Protoco		to 2014
SAN DIEGO OCEANS FO	UNDATION (SDOF) – Sa	n Diego, CA		
	or: Various 5-week K-12	0	2008	to 2010
Citizen Science Instruc	tor: SCUBA Survey Metho	ods and Species Identification	n 2008	to 2010
MENTORSHIP				
Undergraduate Students				
A. Aines (2013)	D. Duncan (2013)	Z. Johanson (2016)	R. Rand (2011-12)	
D. Anaya (2013)	A. Feck (2009)	A. Kamber (2017)	M. Schmidt (2012)	
K. Askeland (2010)	A. Gile (2015)	L. Knopp (2009)	E. Schurig (2013)	`
M. Bargas (2017) K. Beck (2014)	N. Giraud (2009) C. Giordano (2014)	K. Kuhn (2008) J. Li (2020-21)	S. Saadat (2010-11 P. Saengcharoentr	
E. Bjork (2008)	A. Hedger (2009)	S. Link (2016)	N. Siababa (2014)	akui (202)
S. Briley (2008)	E. Hetherington (2009)	S. Lomonico (2014)	E. Stollmeyer (201)	3)
K. Brown (2016)	F. Holman (2022-P)	M. Mairz (2010)	H. Wayner (2016-	
A. Chorazyczewski (2014) C. Doles (2013)	C. Homer (2018) C. Hope (2010)	R. McCollough (2013) P. Muehlenbeck (2012)	D. Weir (2009)	
Post-Baccalaureate Resear	ch Assistants			
J. Antus (2009) H. Heath (2013-14)	S. Robinson (2011) K. Ros (2010)	A. Sloan (2014)		
Graduate Students				
G. Hunt (2015)	H. Delgado-Nordmann (2)	016)		
GRANTS AND FELLOWSH	IPS			
Alaska Sea Grant Program	-	-		2022
California Sea Grant Progr	•			1; 2022
		son, J. Pirtle, T. Essington – \$2		to 2022
Northern Gulf of Alaska A	pplied Research Award –	\$10,000	2018	to 2019
Rasmuson Fisheries Resea	rch Center Graduate Fello	owship – \$78,901	2017	to 2019
· · · · · · · · · · · · · · · · · · ·	•	, PI: A. Beaudreau – \$201,51	6 2015	to 2019
SJSU Associated Students ι	Advocacy Award – \$500			2014
SJSU Graduate Equity Fello				to 2014
Santa Monica Seafood's Re	esponsible Sourcing Vend	dor Partner Grant (CCFRP) – \$	\$15,000 2013	to 2014
Clarence F. and Lyle V. Bu	•			2013
		nic and Marine Biol. Trust Gr	ant – \$1,500	2013
MLML Scholar Award: Mic	chael Lee Environmental	Foundation – \$2,200		2013
Xiphias Martin Scholarship	o: John H. Martin Family -	- \$500		2013
Lucille and David Packard	Foundation Research an	d Travel Grant – \$1,000		2013
CSU Council on Ocean Af	fairs, Science, and Techn	ology Graduate Student Awa	ırd – \$3,000	2013
California Sea Grant: Prog	ram Development Award	(SDOF) - \$9,900		2010

PUBLICATIONS

Published, In Press, or Accepted

- Thorson JT, **Barnes CL**, Friedman ST, Morano JL, and Siple MC. In press. Seven examples of how spatially-varying slope models are essential for species distribution models. Ecogr. Forthcoming.
- 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. In press. Recommendations for quantifying and reducing uncertainty in projections of species distributions. Glob Change Biol. e16371.
- **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. doi: 10.1002/mcf2.10141
- **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. doi:10.1002/eap.2141
- **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

In Preparation

Barnes CL, Dorn MW, Reum JCP, Essington TE, and Punt AE. 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.

Superscripts correspond to items in 'AWARDS and HONORS'

superscripts correspond to items in AWARDS a	Hu HONOKS
AWARDS AND HONORS	
Ecological Applications – Top 10 Most Downloaded Papers	2020
American Fisheries Society, Western Division – Diversity and Inclusion Service Award	2021
American Institute of Fishery Biologists - W.F. Thompson Award (Best Student Paper from 201	8)* 2019
UAF Dean's Recognition Award – Outstanding Graduate Student	2019
Wakefield Fisheries Symposium – Student Travel Award ⁷	019, 2015
Western Groundfish Conference – First Place: Student Talk ⁴	2018
American Fisheries Society, AK Chapter – Student Travel Award ¹ 2018, 2	017, 2015
Western Groundfish Conference – Student Travel Award ² 2018, 2016, 2	014, 2012
American Fisheries Society – Western Division Student Travel Award ³	2017
Western Groundfish Conference – Mirth Award ⁵ ; Second Place, Student Poster ⁶	2016
CSU Council on Ocean Affairs, Science, and Technology – Student Travel Award 9	2014
International Flatfish Symposium – Student Travel Award ⁸	2014
Monterey Bay National Marine Sanctuary Symposium – First Place, Student Poster 10	2013
SDSU Dean's List – Honors Recognition	006, 2004
Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRE	SENTATIONS'
SELECT PRESENTATIONS	
WESTERN SOCIETY of NATURALISTS – Oxnard, CA	2022
ECOSYSTEM STUDIES of SUBARCTIC AND ARTIC SEAS – Seattle, WA	2022
 Climate-informed models benefit hindcasting but present challenges for 	
forecasting species-habitat associations	
ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Virtual	2022
WESTERN SOCIETY of NATURALISTS – Virtual	2021
 Model complexity has contrasting effects for hindcasting and forecasting species 	202.
responses to climate change	
CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual	2021
— Predation as a modifier of constant natural mortality for Gulf of Alaska pollock	2021
·	
ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK	2020
PICES (North Pacific Marine Science Organization) – Victoria, BC	2019
 Development of a predation index to assess trophic stability in the Gulf of Alaska 	
ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Sitka, AK	2019
— Spatiotemporal variation in consumption of Walleye Pollock by major groundfish	
predators in the Gulf of Alaska	
·	2010
WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK	2019

Comparative resource use by two groundfish species in nearshore SE Alaska

SELECT PRESENTATIONS, CONT'D	
ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Sitka, AK INTERNATIONAL PACIFIC HALIBUT COMMISSION SEMINAR SERIES – Seattle, WA WESTERN GROUNDFISH CONFERENCE – Seaside, CA ² WESTERN DIVISION of the AMERICAN FISHERIES SOCIETY – Anchorage, AK ¹ WESTERN SOCIETY OF NATURALISTS – Tacoma, WA — Assessing the potential for competition between Pacific Halibut and Arrowtooth Flounder in the Gulf of Alaska	2019 2018 2018 2018 2018
POLLOCK CONSERVATION COOPERATIVE RESEARCH CENTER – Anchorage, AK RASMUSON FISHERIES RESEARCH CENTER – Anchorage, AK ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR – Seattle, WA — Ecological interactions among major groundfish species in the Gulf of Alaska	2019, 18 2019, 18 2018
WESTERN GROUNDFISH CONFERENCE – Monterey, CA ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Fairbanks, AK — A comparative assessment of resource use by Pacific Halibut and Arrowtooth Flounder throughout the Gulf of Alaska	2018 2017 2017
AMERICAN FISHERIES SOCIETY: WESTERN DIV. STUDENT COLLOQUIUM – McCall, ID ³ WESTERN SOCIETY of NATURALISTS Monterey, CA — A comparative assessment of resource use by Pacific Halibut and Arrowtooth Flounder: from a small-scale field study	2017 2016 results
ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK WESTERN GROUNDFISH CONFERENCE – Newport, OR ² — Calculating an index of predation to improve the stock assessment for Walleye Pollock in the Gulf of Alaska ⁴	2016 2016
WESTERN GROUNDFISH CONFERENCE – Newport, OR ^{2, 5, 6} AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER, STUDENT SYMPOSIUM – Juneau, AK WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK ⁷ — Growth, mortality, and reproductive seasonality of CA Halibut: a biogeographic approa	2015
 ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Homer, AK² — 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 major groundfishes in the Gulf of Alaska 	2015
INTERNATIONAL FLATFISH SYMPOSIUM – Cle Elum, WA ⁸ — Age, growth, and reproductive potential of California Halibut	2014
MARINE: OCEANS COLLOQUIUM Moss Landing, CA MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, — Reproductive biology of California Halibut: results from the Central Coast	2014 CA 2014
MOSS LANDING MARINE LABORATORIES: OPEN HOUSE SEMINAR – Moss Landing, CA — Flatfish fecundity: evaluating the reproductive nature of a prolific spawner	2014
MPA COLLABORATIVE NETWORK — Key findings from monitoring Monterey Bay's marine protected areas	2014

SELECT PRESENTATIONS, CONT'D	
WESTERN GROUNDFISH CONFERENCE – Victoria, Canada ² — MPA monitoring: more than just the latest and greatest in marine conservation trends	2014
WESTERN GROUNDFISH CONFERENCE Victoria, Canada WESTERN SOCIETY of NATURALISTS – Tacoma, WA ⁹ — Reproductive biology of California Halibut: results from the Central Coast	2014 2014
CA COLLABORATIVE FISHERIES RES. PROG. Half Moon Bay & Moss Landing, CA — Research objectives, data collection procedures, data analyses and results — MPA monitoring, project results, and data interpretations	, 13, 12
CALIFORNIA DEPARTMENT of FISH and WILDLIFE – Belmont, CA — CCFRP workshop: objectives, results, and interpretations	2013
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, CA — Reproductive characteristics of California Halibut off central California, with comparisons to the Southern California Bight 10	2013
MOSS LANDING MARINE LABORATORIES, OPEN HOUSE SEMINAR – Moss Landing, CA — Spawning characteristics of California Halibut in Monterey Bay	2013
WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM – Watsonville, CA — Reproductive characteristics of California Halibut off central California, with comparisons to the Southern California Bight	2013
WESTERN SOCIETY of NATURALISTS – Oxnard, CA — Reproductive biology of California Halibut: evidence from the Central Coast	2013
EXPANDING YOUR HORIZONS NETWORK – Monterey, CA — Fishing for our future: fisheries biology and resource management	2012
MONTEREY BAY NAT'L MARINE SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, CA — Collaborative fisheries research: a transition from data-poor to data-rich management	2012
MOSS LANDING MARINE LABORATORIES, OPEN HOUSE SEMINAR Moss Landing, CA — Fishing for science: the California Collaborative Fisheries Research Program	2012
WESTERN GROUNDFISH CONFERENCE – Seattle, WA ² — Collaborative fisheries research: a transition from data-poor to data-rich management	2012
SAN DIEGO BAY SYMPOSIUM – San Diego, CA — SDOF's White Seabass Restoration Project and its relevance to San Diego Bay	2009

PROFESSIONAL ACTIVITIES

PEER REVIEWS
Ecosphere, Exxon Valdez Oil Spill Trustee Council, Fisheries Research, Fishery Bulletin,
Frontiers in Marine Science, ICES Journal of Marine Science, Journal of Applied Ecology,
Journal of Fish Biology, PLoS ONE, Bulletin of the Southern California Academy of Sciences

NEWPORT PRIDE, Planning Committee AMRICAN FISHERIES SOCIETY, ALASKA CHAPTER Diversity, Equity, and Inclusion Committee (Chair) Executive Committee Program, Awards (co-Chair), and Entertainment Committees Executive Committee AMRICAN FISHERIES SOCIETY, WESTERN DIVISION Diversity and Inclusion Committee Annual Meeting Planning Committee Annual M	,	
ADDITIONS CONTINUES CONTINUES CONTINUES CONTINUES Program, Awards (co-Chair), and Entertainment Committees 2018 to 2019 to 2015 to 2017 to 2015 to 2017 to 2015 to 201	NEWPORT PRIDE, Planning Committee	2022 to present
Diversity and Inclusion Committee Annual Meeting Planning Committee Annual Meeting Planning Committee Annual Meeting Planning Committee AMERICAN FISHERIES SOCIETY, Diversity, Equity, and Inclusion Committee WESTERN GROUNDFISH CONFERENCE, Steering Committee WESTERN SOCIETY of NATURALISTS (WSN), Diversity, Equity, & Inclusion Committee 2018 to 2022 KKYPE A SCIENTIST, Volunteer ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA), Gender Equity Working Group UNIVERSITY OF ALASKA FAIRBANKS Assistant Professor in Quantitative Fisheries Search Committee Graduate Academic and Advising Committee Graduate Academic and Advising Committee Professional Development Workshop Organizer SOUTHEAST ALASKA LGBTQIA+ ALLIANCE Board Member Volunteer SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer 2018 to 2019 PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer MOSS LANDING MARINE LABORATORIES Curriculum Committee Advisor ", Chair b Donations Committee Advisor ", Chair b Associated Student Body Vice President MPA COLLABORATIVE NETWORK, Participant TEACHER ENHANCEMENT PROGRAM, Marine Science Educator EACHER ENHANCEMENT PROGRAM, Marine Science Mentor EACH Entward EACH Entwar	Diversity, Equity, and Inclusion Committee (Chair) Program, Awards (co-Chair), and Entertainment Committees	2018 to 2019
WESTERN GROUNDFISH CONFERENCE, Steering Committee2019 to 2022WESTERN SOCIETY of NATURALISTS (WSN), Diversity, Equity, & Inclusion Committee2018 to 2022SKYPE A SCIENTIST, Volunteer2018 to 2022ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA), Gender Equity Working Group2021UNIVERSITY OF ALASKA FAIRBANKS2018 to 2019Assistant Professor in Quantitative Fisheries Search Committee2018 to 2019Graduate Academic and Advising Committee2017 to 2019Professional Development Workshop Organizer2018 to 2019SOUTHEAST ALASKA LGBTQIA+ ALLIANCE2018 to 2019Board Member2018 to 2019Volunteer2018 to 2019SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer2018; 2013-14ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer2018; 2013-14ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer2012 to 2014MOSS LANDING MARINE LABORATORIES2012 to 2014Curriculum Committee2012 to 2014Donations Committee Advisor *, Chair *2012 to 2014MPA COLLABORATIVE NETWORK, Participant2011 to 2014TEACHER ENHANCEMENT PROGRAM, Marine Science Educator2011 to 2014WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor2012 to 2013EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer2011 to 2016MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor2011 to 2016SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant2009 to 2010	Diversity and Inclusion Committee	
WESTERN SOCIETY of NATURALISTS (WSN), Diversity, Equity, & Inclusion Committee2018 to 2022SKYPE A SCIENTIST, Volunteer2018 to 2022ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA), Gender Equity Working Group2021UNIVERSITY OF ALASKA FAIRBANKS2018 to 2019Assistant Professor in Quantitative Fisheries Search Committee2018 to 2019Graduate Academic and Advising Committee2017 to 2019Professional Development Workshop Organizer2018 to 2019SOUTHEAST ALASKA LGBTQIA+ ALLIANCE2018 to 2019Board Member2018 to 2019Volunteer2015 to 2019SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer2018; 2013-14ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer2018; 2013-14MOSS LANDING MARINE LABORATORIES2012 to 2014Curriculum Committee2012 to 2014Donations Committee Advisor a, Chair b2011 to 2012Associated Student Body Vice President2011 to 2014TEACHER ENHANCEMENT PROGRAM, Marine Science Educator2011 to 2014WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor2012 to 2014EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer2011 to 2013MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor2011 and 2013SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant2010 to 2010SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge2009 to 2010	AMERICAN FISHERIES SOCIETY, Diversity, Equity, and Inclusion Committee	2021 to 2023
ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA), Gender Equity Working Group UNIVERSITY OF ALASKA FAIRBANKS Assistant Professor in Quantitative Fisheries Search Committee Graduate Academic and Advising Committee Professional Development Workshop Organizer SOUTHEAST ALASKA LGBTQIA+ ALLIANCE Board Member Volunteer SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer Curriculum Committee Curriculum Committee Donations Committee Advisor 3, Chair b Donations Commi	WESTERN GROUNDFISH CONFERENCE, Steering Committee	2019 to 2022
ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA), Gender Equity Working Group UNIVERSITY OF ALASKA FAIRBANKS Assistant Professor in Quantitative Fisheries Search Committee Graduate Academic and Advising Committee Professional Development Workshop Organizer SOUTHEAST ALASKA LGBTQIA+ ALLIANCE Board Member Volunteer Board Member Volunteer SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer MOSS LANDING MARINE LABORATORIES Curriculum Committee Donations Committee Advisor *, Chair * b Donations Committee Advisor *, Chair * b Associated Student Body Vice President MPA COLLABORATIVE NETWORK, Participant TEACHER ENHANCEMENT PROGRAM, Marine Science Educator WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer ANDIEGO STATE UNIVERSITY, Graduate Research Assistant 2010 2009 to 2010	WESTERN SOCIETY of NATURALISTS (WSN), Diversity, Equity, & Inclusion Committee	e 2018 to 2022
UNIVERSITY OF ALASKA FAIRBANKS Assistant Professor in Quantitative Fisheries Search Committee Graduate Academic and Advising Committee Professional Development Workshop Organizer SOUTHEAST ALASKA LGBTQIA+ ALLIANCE Board Member Volunteer SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer Curriculum Committee Curriculum Committee Advisor a, Chair b Donations Committee Advisor a, Chair b Associated Student Body Vice President TEACHER ENHANCEMENT PROGRAM, Marine Science Educator WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer SOUT and 2013 SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2019 2019 to 2019 2019 2019 2019 2019 2019 2019 10 2019	SKYPE A SCIENTIST, Volunteer	2018 to 2022
Assistant Professor in Quantitative Fisheries Search Committee Graduate Academic and Advising Committee Professional Development Workshop Organizer SOUTHEAST ALASKA LGBTQIA+ ALLIANCE Board Member Volunteer SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer ACUIT Donations Committee Curriculum Committee Donations Committee Advisor a, Chair b Donations Committee Advisor a, Chair b ASSICANDING MARINE LABORATORIES Curriculum Committee Advisor a, Chair b Donations Committee Advisor a, Chair b ASSICANDING MARINE PROGRAM, Marine Science Educator MPA COLLABORATIVE NETWORK, Participant TEACHER ENHANCEMENT PROGRAM, Marine Science Educator EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer ANONTEREY BAY AQUARIUM, DSCVR Young Women in Science Wentor SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2010 2010 2010 2010 2010 2010 2010 201	ALASKA FISHERIES SCIENCE CENTER (AFSC, NOAA), Gender Equity Working Group	2021
Board Member Volunteer 2015 to 2019 2018 2018 2018 2018 2018 2018 2018 2018	Assistant Professor in Quantitative Fisheries Search Committee Graduate Academic and Advising Committee	2017 to 2019
PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer 2013-14. ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer 2017 MOSS LANDING MARINE LABORATORIES Curriculum Committee 2012 to 2014 Donations Committee Advisor a, Chair b 2013-14, b 2011-12 Associated Student Body Vice President 2011 to 2012 MPA COLLABORATIVE NETWORK, Participant 2011 to 2014 TEACHER ENHANCEMENT PROGRAM, Marine Science Educator 2013 WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor 2012 to 2013 EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer 2011 and 2013 MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor 2011 and 2013 SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2010 SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2009 to 2010	Board Member	
ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer MOSS LANDING MARINE LABORATORIES Curriculum Committee 2012 to 2014 Donations Committee Advisor a, Chair b a 2013-14, b 2011-12 Associated Student Body Vice President 2011 to 2012 MPA COLLABORATIVE NETWORK, Participant 2011 to 2014 TEACHER ENHANCEMENT PROGRAM, Marine Science Educator 2013 WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor 2012 to 2013 EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer 2011 to 2013 MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor 2011 and 2013 SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2010 SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2009 to 2010	SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer	2018
MOSS LANDING MARINE LABORATORIES Curriculum Committee Donations Committee Advisor a, Chair b Associated Student Body Vice President MPA COLLABORATIVE NETWORK, Participant TEACHER ENHANCEMENT PROGRAM, Marine Science Educator WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2012 to 2014 2013 2014 to 2013 2016 2016 2017 and 2016 2019 to 2010	PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer	2018; 2013-14
Curriculum Committee Donations Committee Advisor a, Chair b Associated Student Body Vice President MPA COLLABORATIVE NETWORK, Participant TEACHER ENHANCEMENT PROGRAM, Marine Science Educator WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2012 to 2013 2013 2014 to 2014 2015 2015 2016 2015 2017 to 2015 2016 2016 2017 to 2016 2017 to 2017 2017 and 2018 2019 2019	ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer	2017
TEACHER ENHANCEMENT PROGRAM, Marine Science Educator 2013 WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor 2012 to 2013 EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer 2011 to 2013 MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor 2011 and 2013 SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2010 SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2009 to 2010	Curriculum Committee Donations Committee Advisor ^a , Chair ^b ^a 20	13-14, ^b 2011-12
WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2012 to 2013 2011 and 2013 2010	MPA COLLABORATIVE NETWORK, Participant	2011 to 2014
EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2011 to 2013 2011 and 2013 2010	TEACHER ENHANCEMENT PROGRAM, Marine Science Educator	2013
MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2010 SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2009 to 2010	WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mentor	2012 to 2013
SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant 2010 SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2009 to 2010	EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer	2011 to 2013
SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge 2009 to 2010	MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor	2011 and 2013
	SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant	2010
SAN DIEGO COASTKEEPER, Outreach and Community Event Intern 2005 to 2006	SAN DIEGO SCIENCE & ENGINEERING FAIR, Professional Society Judge	2009 to 2010
	SAN DIEGO COASTKEEPER, Outreach and Community Event Intern	2005 to 2006

SELECT ASSOCIATIONS, TRAININGS, AND CERTIFICATIONS	
500 QUEER SCIENTISTS: Member	2017 to present
500 WOMEN SCIENTISTS: Member	2017 to present
ALASKA CLIMATE INTEGRATED MODELING (ACLIM): Collaborator	2020 to present
ALASKA MARINE SAFETY EDU ASSOC: Cold Water Survival, Skiff Operator	2017, 2015
AMERICAN ACADEMY of UNDERWATER SCIENCES: Scientific Diver, Member	2010 to present
AMERICAN FISHERIES SOCIETY: Western Division and Alaska Chapter Member	2015 to present
AMERICAN INSTITUTE OF FISHERY RESEARCH BIOLOGISTS: Member	2019 to present
AMERICAN RED CROSS:	
CPR, AED, First Aid, Administering Emergency O ₂	2006 to 2015
Lifeguard and Water Safety Instructor; Fundamentals of Instructor Training	2006 to 2008
AMERICAN STATISTICAL ASSOCIATION: Alaska Chapter Member	2019 to present
CA DEPT. 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:	2015 to 2010
Working with the IACUC; Field and Lab Animal Researchers	2015 to 2018
ECOLOGICAL SOCIETY of AMERICA: Member EDSCo. P. Mindful Londorship Creating a Diverse and Inclusive LIA: Workshop Portion	2019 to present
EPSCoR, Mindful Leadership Creating a Diverse and Inclusive UA: Workshop Particip	
EQUAL EMPLOYMENT OPPORTUNITY COMM., Beyond the Binary: Workshop Partic	•
MORALE, WELFARE, and RECREATION, COMM. FLEET ACT: Power Boat Operator	2007
NAT'L ASSOC. of UNDERWATER INSTRUCTORS: Master SCUBA Diver and Nitrox D	2010 ver
NAT'L CENTER for ECOLOGICAL ANALYSIS and SYNTHESIS (NCEAS): Reproducible Research Techniques for Synthesis Workshop Participant	2019
NOAA Pride Employee Resource Group: Member	2020 to present
oSTEM: Member	2019 to present
PROFESSIONAL ASSOCIATION of DIVING INSTRUCTORS:	•
Open Water, Advanced Open Water, and Rescue Diver; Dive Master	2006 to 2010
REEF CHECK CALIFORNIA: UPC, Algae, Invertebrate, and Fish Surveyor	2010
REEF ENVIRON. EDU. FDN: Marine Algal, Invertebrate, and Expert Fish Surveyor	2008
SACNAS: Member	2022 to present
SACNAS Native Initiatives, Creating More Inclusive Spaces in STEM: Workshop Partici	ipant 2021
TRIMBLE: Intermediate Mapping and GIS Certificate	2011
UNDERGRAD. RES. OPPORTUNITIES CTR, CSU MONTEREY BAY: Mentor	2014
WESTERN SOCIETY of NATURALISTS: Member	2010 to present