Cheryl L. Barnes (she | her)

e: cheryl.lee.barnes@gmail.com · p: (831) 334-3484

w: cheryl-barnes.github.io

| _ | | | | | | _ |
|---|-----------------------|----|---------------------|-------|-----|------------|
| г | $\overline{}$ | | A 7 | C I / | ~ n | ٠ı |
| - | | | 4 | | | ● I |
| _ | $\boldsymbol{\omega}$ | JC | $\boldsymbol{\neg}$ | | | ч |

PhD, Fisheries | UNIVERSITY of ALASKA FAIRBANKS (UAF)

2019

— Collaborators: Anne H. Beaudreau (UAF), Lorenzo Ciannelli (OSU),

Martin W. Dorn (AFSC, NOAA), Kirstin K. Holsman (AFSC, NOAA),

Mary E. Hunsicker (NWFSC, NOAA), Franz J. Mueter (UAF),

Terrance J. Quinn II (UAF), Richard N. Yamada (AK Charter Assoc.)

MS, Marine Science | MOSS LANDING MARINE LABORATORIES (MLML)

2015

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)

BS, Biology | SAN DIEGO STATE UNIVERSITY (SDSU)

2006

Emphasis: Marine Biology

Principal Investigator

PROFESSIONAL EXPERIENCE (2006 to date)

COOPERATIVE INSTITUTE for CLIMATE, OCEAN, and ECOSYSTEM STUDIES (CICOES)

GULF of ALASKA CLIMATE INTEGRATED MODELING (GOACLIM) PROJECT

UNIVERSITY of WASHINGTON - Seattle, WA

ALASKA FISHERIES SCIENCE CENTER, NOAA – Seattle, WA

Research Scientist 2022 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

Postdoctoral Scholar 2020 to 2022

SCALE BACK CONSULTING, LLC – Anchorage, AK

2020 to present

CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (CCFRP) – Moss Landing, CA

| Lead Scientist | 2011 to 2014 |
|-----------------------|--------------|
| Volunteer Coordinator | 2010 to 2011 |
| Science Crew | 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 | 2008 to 2010 |
|--|--------------|
| Marine Science Education Program Coordinator | 2008 |

MWR: COMMANDER FLEET ACTIVITIES – Sasebo, Japan

| Head Lifeguard and Water Safety Instructor | 2007 to 2008 |
|--|--------------|
| Lifeguard | 2006 to 2007 |

| TEACHING EXPERIENCE | | | | |
|--|--|---|--|--------------|
| AMERICAN FISHERIES SO Co-instructor: Spatiote | CIETY – Virtual Worksho mporal Analysis of Ecolog | | <u>:</u> | 2021 |
| UNIVERSITY of ALASKA F | AIRBANKS – Juneau, AK | | | |
| • | g Ecological Inferences fro | | | 2018 |
| Teaching Assistant: Fiel | ld Methods in Marine Eco | ology and Fisheries | | 2017 |
| UNIVERSITY of ALASKA S Guest Lecturer: Pacific | OUTHEAST: INTRO. to A Halibut Biology, Ecology | • | iu, AK | 2016 |
| CA COLLABORATIVE FISH Staff, Volunteer, and Pa | | GRAM – Moss Landing, CA Irvey Objectives and Proto | | 2014 |
| SAN DIEGO OCEANS FO | UNDATION (SDOF) – Sa | n Diego, CA | | |
| | or: Various 5-week K-12 | 0 | 2008 to 2 | 2010 |
| Citizen Science Instruc | tor: SCUBA Survey Metho | ods and Species Identificat | ion 2008 to 2 | 2010 |
| MENTORSHIP | | | | |
| Undergraduate Students | | | | |
| A. Aines (2013) D. Anaya (2013) K. Askeland (2010) M. Bargas (2017) K. Beck (2014) E. Bjork (2008) S. Briley (2008) K. Brown (2016) A. Chorazyczewski (2014) C. Doles (2013) | D. Duncan (2013) A. Feck (2009) A. Gile (2015) C. Giordano (2014) A. Hedger (2009) E. Hetherington (2009) C. Homer (2018) C. Hope (2010) Z. Johanson (2016) A. Kamber (2017) | L. Knopp (2009) K. Kuhn (2008) J. Li (2020-21) S. Link (2016) S. Lomonico (2014) M. Mairz (2010) R. McCollough (2013) P. Muehlenbeck (2012) R. Rand (2011-12) M. Schmidt (2012) | E. Schurig (2013) S. Saadat (2010-11) P. Saengcharoentraku N. Siababa (2014) E. Stollmeyer (2013) H. Wayner (2016-17) D. Weir (2009) | l (2021 |
| Post-Baccalaureate Techni | | | | |
| J. Antus (2009) H. Heath (2013-14) | S. Robinson (2011) K. Ros (2010) | A. Sloan (2014) | | |
| Graduate Students G. Hunt (2015) | H. Delgado-Nordmann (20 | 016) | | |
| GRANTS AND FELLOWSH | IPS | | | |
| Magnuson-Stevens Act Imp California Sea Grant Progra | | | | 2022 2021 |
| Northern Gulf of Alaska Ap | • • | | 2018 to 2 | |
| Rasmuson Fisheries Resear | | • | 2017 to | |
| Pollock Conservation Coop | | PI: A. Beaudreau – \$201,. | | |
| SJSU Associated Students / | • | | | 2014 |
| SJSU Graduate Equity Fello | | lor Partner Crant (CCEPP) | 2013 to 2 - \$15,000 2013 to 2 | |
| Santa Monica Seafood's Re Clarence F. and Lyle V. Bu | | | | 2014 |
| Dr. Earl M. Myers and Ethe | | | | 2013 |
| MLML Scholar Award: Mic | | | | 2013 |
| Xiphias Martin Scholarship | | | | 2013 |
| Lucille and David Packard | | | | 2013 |
| CSU Council on Ocean Af | | | | 2013 |
| | | | | |

PUBLICATIONS

Published, In Press, or Accepted

- 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. Accepted. Recommendations for quantifying and reducing uncertainty in projections of species distributions. Glob Change Biol.
- **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. 2022: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 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.

In Revision, In Review, or Submitted

Thorson JT, **Barnes CL**, Friedman ST, Morano JL, and Siple MC. In review. Seven examples of how spatially-varying slope models are essential for species distribution models.

Superscripts correspond to items in 'AWARDS and HONORS'

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'

| · · · | ariortons |
|---|------------------------------|
| 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 2018 |)* 2019 |
| UAF Dean's Recognition Award – Outstanding Graduate Student | 2019 |
| Wakefield Fisheries Symposium – Student Travel Award ⁷ 20 | 19, 2015 |
| Western Groundfish Conference – First Place: Student Talk ⁴ | 2018 |
| American Fisheries Society, AK Chapter – Student Travel Award ¹ 2018, 20 | 17, 2015 |
| Western Groundfish Conference – Student Travel Award ² 2018, 2016, 20 | 14, 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 20 | 06, 2004 |
| Superscripts correspond with items in 'PUBLICATIONS' and 'SELECTED PRESI | ENTATIONS |
| PRESENTATIONS | |
| ECOSYSTEM STUDIES of SUBARCTIC AND ARTIC SEAS – Seattle, WA — Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat associations | 2022 |
| 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 responses to climate change | |
| responses to enmate enange | |
| · | 2021 |
| CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock | |
| CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK | 2020 |
| CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK | 2020 |
| CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK PICES (North Pacific Marine Science Organization) – Victoria, BC — Development of a predation index to assess trophic stability in the Gulf of Alaska | 2020 2019 |
| CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK PICES (North Pacific Marine Science Organization) – Victoria, BC | 2020 2019 |
| CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK PICES (North Pacific Marine Science Organization) – Victoria, BC — Development of a predation index to assess trophic stability in the Gulf of Alaska ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Sitka, AK — Spatiotemporal variation in consumption of Walleye Pollock by major groundfish | 2021 2020 2019 2019 |

| 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 2019, 18, RASMUSON FISHERIES RESEARCH CENTER – Anchorage, AK 2019, 18, ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR – Seattle, WA — Ecological interactions among major groundfish species in the Gulf of Alaska | , 17, 16 019, 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: results from a small-scale field study | 201 <i>7</i> 2016 |
| 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 approach ⁶ | 2016 2015 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 — 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, CA — Reproductive biology of California Halibut: results from the Central Coast | 2014 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 |

| 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 | 2014 |
| WESTERN SOCIETY of NATURALISTS – Tacoma, WA ⁹ | 2014 |
| Reproductive biology of California Halibut: results from the Central Coast | |
| 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 SERVICE

| P | F | F | R | 1 | R | F١ | // | ı | ۲, | Λ | VS | ٠ |
|---|---|---|---|---|---|----|----|---|----|---|-------|---|
| | | | | | • | | v | | | v | v . : | , |

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

| Frontiers in Marine Science, ICES Journal of Marine Science, Journal of Fish Biolo Bulletin of the Southern California Academy of Sciences | ogy, PLoS ONE, |
|--|--|
| AMERICAN FISHERIES SOCIETY | |
| Diversity & Inclusion Committee | 2021 to present |
| WESTERN GROUNDFISH CONFERENCE, Steering Committee | 2019 to present |
| AMERICAN FISHERIES SOCIETY, ALASKA CHAPTER Diversity, Equity, and Inclusion Committee (Chair) Program, Awards (co-Chair), and Entertainment Committees Executive Committee | 2018 to present 2018 to 2019 2015 to 2017 |
| AMERICAN FISHERIES SOCIETY, WESTERN DIVISION Diversity & Inclusion Committee Annual Meeting Planning Committee | 2018 to present 2021 |
| WESTERN SOCIETY of NATURALISTS, Diversity, Equity, & Inclusion Committee | 2018 to present |
| SKYPE A SCIENTIST, Volunteer | 2018 to present |
| ALASKA FISHERIES SCIENCE CENTER (NOAA), Gender Equity Working Group | 2021 |
| UNIVERSITY OF ALASKA FAIRBANKS Assistant Professor in Quantitative Fisheries Search Committee Graduate Academic and Advising Committee Professional Development Workshop Organizer | 2018 to 2019 2017 to 2019 2018 |
| SOUTHEAST ALASKA LGBTQIA+ ALLIANCE Board Member Volunteer | 2018 to 2019 2015 to 2019 |
| SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer | 2018 |
| PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Voluntee | er 2018; 2013-14 |
| ALASKA FISHERIES SCIENCE CENTER (NOAA), Bottom Trawl Survey Volunteer | 2017 |
| MOSS LANDING MARINE LABORATORIES Curriculum Committee Donations Committee Advisor ^a , Chair ^b Associated Student Body Vice President | 2012 to 2014 a 2013-14, b 2011-12 2011 to 2012 |
| MPA COLLABORATIVE NETWORK, Participant | 2011 to 2014 |
| TEACHER ENHANCEMENT PROGRAM, Marine Science Educator | 2013 |
| WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Mente | or 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 |
| | |

2005 to 2006

SAN DIEGO COASTKEEPER, Outreach and Community Event Intern

| PROFESSIONAL ASSOCIATIONS, TRAININGS, AND CERTIFICATIONS | | |
|---|-----------|--------------------|
| 500 QUEER SCIENTISTS: Member | 2017 to | present |
| 500 WOMEN SCIENTIST, Alaska Chapter: Member | 2017 to | present |
| ALASKA CLIMATE INTEGRATED MODELING (ACLIM): Collaborator | 2020 to | present |
| ALASKA MARINE SAFETY EDU ASSOC: Cold Water Survival, Skiff Operator | 201 | 7, 2015 |
| AMERICAN ACADEMY of UNDERWATER SCIENCES: Scientific Diver, Member | 2010 to | present |
| AMERICAN FISHERIES SOCIETY, WESTERN DIV. & AK 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 Lifeguard and Water Safety Instructor; Fundamentals of Instructor Training | | to 2015 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: Working with the IACUC; Field and Lab Animal Researchers | 2015 | to 2018 |
| ECOLOGICAL SOCIETY of AMERICA: Member | 2019 to | present |
| EPSCoR, Mindful Leadership Creating a Diverse and Inclusive UA: Workshop Parti | cipant | 2018 |
| EQUAL EMPLOYMENT OPPORTUNITY COMM., Beyond the Binary: Workshop Pa | rticipant | 2021 |
| MORALE, WELFARE, and RECREATION, COMM. FLEET ACT: Power Boat Operator | | 2007 |
| NAT'L ASSOC. of UNDERWATER INSTRUCTORS: Master SCUBA Diver and Nitrox | Diver | 2010 |
| NAT'L CENTER for ECOLOGICAL ANALYSIS and SYNTHESIS (NCEAS): | | 2010 |
| Reproducible Research Techniques for Synthesis Workshop Participant | 2020 +- | 2019 |
| NOAA Pride Employee Resource Group: Member | | 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 Native Initiatives, Creating More Inclusive Spaces in STEM: Workshop Part | ticipant | 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 |