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 average
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 Ecoloş	•	2021
UNIVERSITY of ALASKA F	AIRBANKS – Juneau, AK		
	g Ecological Inferences fro		2018
Teaching Assistant: Fie	ld Methods in Marine Eco	ology and Fisheries	2017
	OUTHEAST: INTRO. to A Halibut Biology, Ecology	ALASKA FISHERIES – Juneau, A , and Management	AK 2016
		GRAM – Moss Landing, CA urvey Objectives and Protocol	2011 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	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)		M. Schmidt (2012)
K. Askeland (2010)	A. Gile (2015)		E. Schurig (2013)
M. Bargas (2017) K. Beck (2014)	N. Giraud (2009) C. Giordano (2014)		S. Saadat (2010-11) P. Saengcharoentrakul (202
E. Bjork (2008)	A. Hedger (2009)		N. Siababa (2014)
S. Briley (2008)	E. Hetherington (2009)		E. Stollmeyer (2013)
K. Brown (2016)	F. Holman (2022-P)		H. Wayner (2016-17)
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 (20	016)	
GRANTS AND FELLOWSH	IPS		
Alaska Sea Grant Program	Development Award (Ak	(Chapter AFS) – \$8,850	2022
California Sea Grant Progr	am Development Award	(WSN) – \$4,000; \$9,999	2021; 2022
Magnuson-Stevens Act Imp	olementation, Pls: J. Thors	son, J. Pirtle, T. Essington – \$2	229,306 2020 to 2022
Northern Gulf of Alaska A _l	pplied Research Award –	\$10,000	2018 to 2019
Rasmuson Fisheries Resea	rch Center Graduate Fello	owship – \$78,901	2017 to 2019
Pollock Conservation Coo	perative Research Center,	PI: A. Beaudreau – \$201,516	2015 to 2019
SJSU Associated Students /	Advocacy Award – \$500		2014
SJSU Graduate Equity Fello	owship – \$3,000		2013 to 2014
		dor Partner Grant (CCFRP) – \$	15,000 2013 to 2014
Clarence F. and Lyle V. Bu			2013
•		nic and Marine Biol. Trust Gra	
MLML Scholar Award: Mic			2013
Kiphias Martin Scholarship	,		2013
ucille and David Packard		•	2013
		ology Graduate Student Awar	
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'

Western Groundfish Conference – First Place: Student Talk ⁴ 2018 American Fisheries Society, AK Chapter – Student Travel Award ¹ 2018, 2017, 2015 Western Groundfish Conference – Student Travel Award ² 2018, 2016, 2014, 2012 American Fisheries Society – Western Division Student Travel Award ³ 2018, 2016, 2014, 2012 American Fisheries Society – Western Division Student Travel Award ³ 2016 CSU Council on Ocean Alfairs, Science, and Technology – Student Poster ⁶ 2016 CSU Council on Ocean Alfairs, 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 2006, 2004 **Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS'* **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 2022 — Model complexity has contrasting effects for hindcasting and forecasting species 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 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 WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK 2019	Superscripts	s correspond to items in 'AWARDS and HONORS'
American Fisheries Society, Western Division – Diversity and Inclusion Service Award American Institute of Fishery Biologists – W.F. Thompson Award (Best Student Paper from 2018)* 2019 Wakefield Fisheries Symposium – Student Travel Award ⁷ 2019, 2015 Western Groundfish Conference – First Place: Student Talk ⁴ 2018 American Fisheries Society, AK Chapter – Student Travel Award ¹ 2018, 2017, 2017 Western Groundfish Conference – First Place: Student Talk ⁴ 2018, 2017, 2017 American Fisheries Society, AK Chapter – Student Travel Award ² 2018, 2016, 2014, 2012 American Fisheries Society – Western Division Student Travel Award ³ 2017 Western Groundfish Conference – Mirth Award ³ ; Second Place, Student Poster ⁶ 2016 CSU Council on Ocean Affairs, Science, and Technology – Student Travel Award ³ 2014 International Flatfish Symposium – Student Travel Award ³ 2014 International Flatfish Symposium – Student Travel Award ³ 2014 Monterey Bay National Marine Sanctuary Symposium – First Place, Student Poster ¹⁰ 2013 SDSU Dean's List – Honors Recognition 2006, 2004 Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS' SELECT PRESENTATIONS WESTERN SOCIETY of NATURALISTS – Oxnard, CA 2022 ECOSYSTEM STUDIES of SUBARCTIC AND ARTIC SEAS – Seattle, WA 2022 CIlmate-informed models benefit hindcasting but present challenges for forecasting species-habitat associations ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Virtual 2021 — Model complexity has contrasting effects for hindcasting and forecasting species responses to climate change CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODLOGY – Virtual 2021 — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK 2020 PICES (North Pacific Marine Science Organization) – Victoria, BC 2020 — Development of a predation index to assess trophic stability in the Gulf of Alaska ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Sitka, AK 2020 — Spatiotemporal varia	AWARDS AND HONORS	
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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 2019, 2015 Western Groundfish Conference – First Place: Student Talk ⁴ 2018, 2017, 2015 Western Groundfish Conference – Student Travel Award ¹ 2018, 2016, 2014, 2012 Western Groundfish Conference – Student Travel Award ² 2018, 2016, 2014, 2012 Western Groundfish Conference – Student Travel Award ³ 2018, 2016, 2014, 2012 Western Groundfish Conference – Mirth Award ³ ; 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 2006, 2004 Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS' 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 2021 — Model complexity has contrasting effects for hindcasting and forecasting species 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 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		sion Service Award 2021
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Western Groundfish Conference – First Place: Student Talk ⁴ American Fisheries Society, AK Chapter – Student Travel Award ¹ 2018, 2017, 2015 Western Groundfish Conference – Student Travel Award ² 2018, 2016, 2014, 2012 American Fisheries Society – Western Division Student Travel Award ³ 2018, 2016, 2014, 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 Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS' 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 2021 — Model complexity has contrasting effects for hindcasting and forecasting species 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 ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK 2020 PICES (North Pacific Marine Science Organization) – Victoria, BC 2020 PICES (North Pacific Marine Science Organization) – Victoria, BC 2020 PICES (North Pacific Marine Science Organization) – Victoria, BC 2020 Poevelopment 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 WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK 2020	UAF Dean's Recognition Award – Outstanding Graduate Student	2019
American Fisheries Society, AK Chapter – Student Travel Award ¹ 2018, 2017, 2015 Western Groundfish Conference – Student Travel Award ² 2018, 2016, 2014, 2012 American Fisheries Society – Western Division Student Travel Award ³ 2017 Western Groundfish Conference – Mirth Award ³ ; 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 2006, 2004 **Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS'* **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 2021 — Model complexity has contrasting effects for hindcasting and forecasting species 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 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 WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK	Wakefield Fisheries Symposium – Student Travel Award ⁷	2019, 2015
Western Groundfish Conference – Student Travel Award ² 2018, 2016, 2014, 2012 American Fisheries Society – Western Division Student Travel Award ³ 2017 Western Groundfish Conference – Mirth Award ³ ; 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 2006, 2004 Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS' 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 2021 — Model complexity has contrasting effects for hindcasting and forecasting species 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 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 WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK 2019	Western Groundfish Conference – First Place: Student Talk ⁴	2018
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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 2018 Monterey Bay National Marine Sanctuary Symposium – First Place, Student Poster ¹⁰ 2013 SDSU Dean's List – Honors Recognition 2006, 2004 Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS' 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 2021 — Model complexity has contrasting effects for hindcasting and forecasting species 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 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 WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK 2019	Western Groundfish Conference – Student Travel Award ²	2018, 2016, 2014, 2012
CSU Council on Ocean Affairs, Science, and Technology – Student Travel Award 9 International Flatfish Symposium – Student Travel Award 9 Monterey Bay National Marine Sanctuary Symposium – First Place, Student Poster 10 2013 SDSU Dean's List – Honors Recognition Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS' SELECT PRESENTATIONS WESTERN SOCIETY of NATURALISTS – Oxnard, CA 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 WESTERN SOCIETY of NATURALISTS – Virtual WESTERN SOCIETY of NATURALISTS – Virtual — Model complexity has contrasting effects for hindcasting and forecasting species responses to climate change 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 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 WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK 2019	American Fisheries Society - Western Division Student Travel Awa	rd^{3} 2017
International Flatifish Symposium – Student Travel Award 8 Monterey Bay National Marine Sanctuary Symposium – First Place, Student Poster 10 2013 SDSU Dean's List – Honors Recognition Superscripts correspond to items in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS' SELECT PRESENTATIONS WESTERN SOCIETY of NATURALISTS – Oxnard, CA ECOSYSTEM STUDIES of SUBARCTIC AND ARTIC SEAS – Seattle, WA Climate-informed models benefit hindcasting but present challenges for forecasting species-habitat associations ALASKA CHAPTER of the AMERICAN FISHERIES SOCIETY – Virtual WESTERN SOCIETY of NATURALISTS – Virtual Model complexity has contrasting effects for hindcasting and forecasting species responses to climate change 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 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 2019 Spatiotemporal variation in consumption of Walleye Pollock by major groundfish predators in the Gulf of Alaska WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK 2019	Western Groundfish Conference – Mirth Award ⁵ ; Second Place, Sto	udent Poster ⁶ 2016
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— COMPANAUNC ICSOULCE USE DY LIVO RIQUIIUNSH SDECIES III NEAISHOLE SE ANASKA	 Comparative resource use by two groundfish species in nearsl 	

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, 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 WESTERN GROUNDFISH CONFERENCE Victoria, Canada WESTERN SOCIETY of NATURALISTS – Tacoma, WA ⁹ — Reproductive biology of California Halibut: results from the Central Coast	2014 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	14, 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, C — Collaborative fisheries research: a transition from data-poor to data-rich management	A 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 Bullet Frontiers in Marine Science, ICES Journal of Marine Science, Journal of Applied Ecolo Journal of Fish Biology, PLoS ONE, Bulletin of the Southern California Academy of Science	ogy,
NEWPORT PRIDE, Planning Committee	2022 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 and Inclusion Committee Annual Meeting Planning Committee	2018 to 2023 2021
AMERICAN FISHERIES SOCIETY, Diversity, Equity, and Inclusion Committee	2021 to 2023
WESTERN GROUNDFISH CONFERENCE, Steering Committee	2019 to 2022
WESTERN SOCIETY of NATURALISTS (WSN), Diversity, Equity, & Inclusion Committee	2018 to 2022
SKYPE A SCIENTIST, Volunteer	2018 to 2022
ALASKA FISHERIES SCIENCE CENTER (AFSC, 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	2018 to 2019

SOUTHEAST ALASKA LGBTQIA+ ALLIANCE	
Board Member	2018 to 2019
Volunteer	2015 to 2019
SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer	2018

PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer	2018; 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	^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

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SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant	2010

2011 and 2013

MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor

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 . 2012
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 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	iver 2010
NAT'L CENTER for ECOLOGICAL ANALYSIS and SYNTHESIS (NCEAS): Reproducible Research Techniques for Synthesis Workshop Participant	2019
NAT'L COUNCIL FOR BEHAVIORAL HEALTH: Mental Health First Aid USA	2018
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	pant 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