Cheryl L. Barnes (she | her) 1560 SW Ocean Ct | Waldport, OR 97394

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2008 to 2010

EDUCATION	7 0
EDUCATION Ph.D. E'abar'ar Labelly EDUCATIVA (ALACKA FAIDDANIKS (LIAE)	2010
 PhD, Fisheries UNIVERSITY of ALASKA FAIRBANKS (UAF) — Dissertation: Ecological interactions among important groundfishes in the — Collaborators: A. Beaudreau (UAF), L. Ciannelli (OSU), M. Dorn (NOAA), K. Hol M. Hunsicker (NOAA), F. Mueter (UAF), T. Quinn (UAF), R. Yamada (AK Charter 	sman (NOAA),
MS, Marine Science MOSS LANDING MARINE LABORATORIES (MLML) • Degree awarded by San José State University (SJSU) — Thesis: Growth, mortality, and reproductive potential of California Halibut	2015
— Collaborators: R. Starr, S. Hamilton, J. Harvey (MLML); K. Lesyna, P. Reilly, T. Ta	
BS, Biology; Emphasis: Marine Biology SAN DIEGO STATE UNIVERSITY (SDSU)	2006
PROFESSIONAL EXPERIENCE, 2006 to present	
UNIVERSITY of WASHINGTON – Seattle, WA ALASKA FISHERIES SCIENCE CENTER, NOAA – Seattle, WA ALASKA REGIONAL OFFICE, NOAA – Anchorage & Juneau, AK Postdoctoral Scholar: Cooperative Institute for Climate, Ocean, and Ecosystem St	2020 to present udies (CICOES)
SCALE BACK CONSULTING, LLC	
Principal Investigator	2020 to present
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (CCFRP) – Moss Landing, C Lead Scientist Volunteer Coordinator Science Crew Member	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	2006 to 2008
TEACHING EXPERIENCE	
UNIVERSITY of ALASKA FAIRBANKS: AQUATIC FOOD WEB ECOLOGY – Juneau, <i>Substitute Lecturer</i> : Making Ecological Inferences from Fisheries Data	AK 2018
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK Teaching Assistant: Field Methods in Marine Ecology and Fisheries	2017
UNIVERSITY of ALASKA SOUTHEAST: INTRO. to ALASKA FISHERIES – Juneau, AK <i>Substitute Lecturer</i> : Pacific Halibut Biology, Ecology, and Management	2016
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM – Moss Landing, CA Staff, Volunteer, and Participant Trainer: MPA Survey Objectives and Protocols	2014, 2013, 2012
SAN DIEGO OCEANS FOUNDATION (SDOF) – San Diego, CA Marine Science Educator: Various 5-week K-12 Modules	2008 to 2010

Citizen Science Instructor: SCUBA Survey Methods and Species Identification

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 (201) R. Rand (2011-12) M. Schmidt (2012) E. Schurig (2013) S. Saadat (2010-11) P. Saengcharoentrake N. Siababa (2014) E. Stollmeyer (2013) H. Wayner (2016-17) D. Weir (2009)	2) ul (2021)
Graduate Students	C. H. at (2015)		
H. Delgado-Nordmann (2016)	G. Hunt (2015)		
J. Antus (2009) H. Heath (2013-14)	nts S. Robinson (2011) K. Ros (2010)	A. Sloan (2014)	
GRANTS AND FELLOWSHIPS Magnuson Stovens Act. Ples I. Thorse	on I Dirtle K Audin (220)	206	2020 to 2022
Magnuson-Stevens Act, Pls: J. Thorso Northern Gulf of Alaska Applied Res			2018 to 2019
Rasmuson Fisheries Research Center			2017 to 2019
Pollock Conservation Cooperative Ro	•		2015 to 2019
SJSU Associated Students Advocacy		, ,	2014
SJSU Graduate Equity Fellowship – \$			2013 to 2014
Santa Monica Seafood's Responsible Clarence F. and Lyle V. Burmahln So	•	ant (CCFRP) – \$15,000	2013 to 2014 2013
Dr. Earl M. Myers and Ethel M. Myer			
MLML Scholar Award: Michael Lee		\$2,200	2013
Xiphias Martin Scholarship: John H.	,	4. Φ1.000	2013
Lucille and David Packard Foundation CSU Council on Ocean Affairs, Scientific CSU			2013 0 2013
California Sea Grant: Program Devel	0,		2013
AWARDS AND HONORS	Division Diversity and Incl	lucion Comico Aurard	2021
American Fisheries Society, Western American Institute of Fishery Biologi	,		
UAF Dean's Recognition Award – O		(best student raper from 2	2019
Wakefield Fisheries Symposium – St			2019, 2015
Western Groundfish Conference – Fi			2018
American Fisheries Society, AK Chap	pter – Student Travel Award ¹	2018	3, 2017, 2015
Western Groundfish Conference – St			5, 2014, 2012
American Fisheries Society – Wester			2017
Western Groundfish Conference – N			2016
CSU Council on Ocean Affairs, Sciel International Flatfish Symposium – S	٥,	III Havel Awaru	2014 2014
Monterey Bay National Marine Sanc		e. Student Poster 10	2014
SDSU Dean's List – Honors Recognit	, -,		

Superscripts correspond to those in 'PEER-REVIEWED PUBLICATIONS' and 'SELECTED PRESENTATIONS'

PEER-REVIEWED PUBLICATIONS

- **Barnes CL**, Essington TE, Pirtle JP, Thorson JT, Rooper CN, Holsman KK, Laman EA, Aydin KY. In prep. Effects of model complexity on describing and forecasting species responses to climate change. Forthcoming.
- Holsman KK, **Barnes CL**, Aydin KY, Thorson JT, *et al*. In prep. Patterns in foraging and energetics of midtrophic level predators in the Bering Sea. Forthcoming.
- Dorn MW and **Barnes CL**. In prep. VSI Natural Mortality: Predation as a modifier of constant natural mortality for Gulf of Alaska pollock. Forthcoming.
- 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, DE Wendt, **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.

at isia dei Coco National Fark and La Gemeias Seamount, Costa Rica. Int J. 110p Biol. 60(3).30	J3-319.
SELECT PRESENTATIONS ($N_{total} = 55$)	
CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock	2021
ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK — Development of a predation index to assess trophic stability in the Gulf of Alaska	2020
 PICES (North Pacific Marine Science Organization) – Victoria, BC — Assessing the potential for competition between Pacific Halibut (<i>H. stenolepis</i>) and Arrowtooth Flounder (<i>A. stomias</i>) in the Gulf of Alaska — Development of a predation index to assess trophic stability in the Gulf of Alaska 	2019
ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR – Seattle, WA — Ecological interactions among major groundfish species in the Gulf of Alaska	2018

SELECT PRESENTATIONS ($N_{total} = 55$), cont'd	
AMERICAN FISHERIES SOCIETY: WESTERN DIVISION – Anchorage, AK ¹	2018
WESTERN GROUNDFISH CONFERENCE – Seaside, CA ²	2018
WESTERN SOCIETY of NATURALISTS – Tacoma, CA	2018
 Assessing the potential for competition between Pacific Halibut (H. stenolepis) and Arrowtooth Flounder (A. stomias) in the Gulf of Alaska 	
AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – Fairbanks, AK ¹	2017
AMERICAN FISHERIES SOCIETY: WESTERN DIV. STUDENT COLLOQUIUM – McCall, ID ³ — A comparative assessment of resource use by Pacific Halibut (<i>H. stenolepis</i>) and Arrowtooth Flounder (<i>A. stomias</i>) throughout the Gulf of Alaska	2017
ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK	2016
WESTERN GROUNDFISH CONFERENCE – Newport, OR ²	2016
 Calculating an index of predation to improve the stock assessment for Walleye Pollock (G. chalcogrammus) in the Gulf of Alaska⁴ 	
WESTERN GROUNDFISH CONFERENCE – Newport, OR ^{2, 5, 6}	2016
AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER, STUDENT SYMPOSIUM – Juneau, AK	2015
WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK ⁷	2015
 Growth, mortality, and reproductive seasonality of California Halibut (P. californicus): a biogeographic approach ⁶ 	
AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – Homer, AK ²	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	
INTERNATIONAL FLATFISH SYMPOSIUM – Cle Elum, WA ⁸	2014
— Age, growth, and reproductive potential of California Halibut (P. californicus)	
MOSS LANDING MARINE LABORATORIES: OPEN HOUSE SEMINAR – Moss Landing, CA — Flatfish fecundity: evaluating the reproductive nature of a prolific spawner in and around Monterey Bay	2014
WESTERN GROUNDFISH CONFERENCE – Victoria, Canada ²	2014
— MPA monitoring: more than just the latest and greatest in marine conservation trends	2014
WESTERN SOCIETY of NATURALISTS – Tacoma, WA 9	2014
— Reproductive biology of California Halibut (P. californicus): results from the Central Coast	
CALIFORNIA DEPARTMENT of FISH and WILDLIFE – Belmont, CA	2013
— CCFRP workshop: objectives, results, and interpretations	2013
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, CA	2013
MOSS LANDING MARINE LABORATORIES: OPEN HOUSE SEMINAR – Moss Landing, CA	2013
 Reproductive characteristics of California Halibut (P. californicus) off central California, with comparisons to the Southern California Bight ¹⁰ 	
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, CA	2012
WESTERN GROUNDFISH CONFERENCE – Seattle, WA ²	2012
— Collaborative fisheries research: a transition from data-poor to data-rich management	
SAN DIEGO BAY SYMPOSIUM – San Diego, CA	2009
— SDOF's White Seabass Restoration Project and its relevance to San Diego Bay	

PROFESSIONAL SERVICE PEER REVIEWS Frontiers in Marine Science Journal of Fish Biology

PEER REVIEWS Ecosphere Fisheries Research Fishery Bulletin	Frontiers in Marine Science ICES Journal of Marine Science	Journal of Fish Biology PLoS ONE
ALASKA FISHERIES SCIENCE CENTER	R (NOAA), Gender Equity Working	Group 2021 to present
AMERICAN FISHERIES SOCIETY, Dive	ersity & Inclusion Committee	2021 to present
WESTERN GROUNDFISH CONFEREN	NCE, Steering Committee	2019 to present
WESTERN SOCIETY of NATURALISTS	S, Diversity, Equity, & Inclusion Co	mmittee 2018 to present
AMERICAN FISHERIES SOCIETY, ALA Diversity, Equity, and Inclusion Cor Programs, Awards (co-Chair), and E Executive Committee Member, Stud	mmittee (Chair) Entertainment Committees	2018 to present 2018 to 2019 2015 to 2017
AMERICAN FISHERIES SOCIETY, WES Diversity & Inclusion Committee Annual Meeting Planning Committee		2018 to present 2021
SKYPE A SCIENTIST, Volunteer		2018 to present
UAF COLLEGE of FISHERIES and OCI Search Committee, Assistant Profes	•	2018 to 2019
UAF GRADUATE ACADEMIC and AE	DVISING COMM., Graduate Studer	nt Rep. 2017 to 2019
SOUTHEAST ALASKA LGBTQIA+ AL Board Member Volunteer	LIANCE	2018 to 2019 2015 to 2019
COLLEGE of FISHERIES and OCEAN S	SCIENCES (UAF) PROF. DEV. WKS	HP, Organizer 2018
SITKA SOUND SCIENCE CENTER, Sc	ientist in the Schools Volunteer	2018
PARTNERSHIP for INTERDISCIPLINA	ry studies of coastal ocean	S, Volunteer 2018; 2013-14
ALASKA FISHERIES SCIENCE CENTER	R (NOAA), Bottom Trawl Survey Vo	lunteer 2017
MOSS LANDING MARINE LABORAT Curriculum Committee, Student Ro Donations Committee, Advisor a a Associated Student Body, Vice Pre	epresentative nd Chair ^b	2012 to 2014 a 2013-14, b 2011-12 2011 to 2012
MPA COLLABORATIVE NETWORK, I	Member	2011 to 2014
TEACHER ENHANCEMENT PROGRA	M, Marine Science Educator	2013
WATSONVILLE AREA TEENS CONSE	RVING HABITATS PROGRAM, Sci	ence Mentor 2012 to 2013
EXPANDING YOUR HORIZONS NET	TWORK, Young Women in Science	e Volunteer 2011 to 2013
MONTEREY BAY AQUARIUM, DSCV	R Young Women in Science Ment	or 2011 and 2013
SAN DIEGO STATE UNIVERSITY, Gra	aduate Research Assistant	2010
SAN DIEGO SCIENCE & ENGINEERIN	NG FAIR, Professional Society Judg	e 2009 to 2010

2005 to 2006

SAN DIEGO COASTKEEPER, Outreach and Community Event Intern

CERTIFICATIONS, PROFESSIONAL ASSOCIATIONS, AND SELECT WORKSHOPS	
500 QUEER SCIENTISTS, Member	2017 to present
500 WOMEN SCIENTISTS, Alaska Chapter Member	2017 to present
ALASKA CLIMATE INTEGRATED MODELING (ACLIM) Workshops	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 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	2006 to 2015 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 Workshop	2014
CAREERSTONE GROUP: Managing Up	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
ECOSYSTEM and SOCIOECONOMIC PROFILE (ESP) [AFSC, NOAA] Workshops	2020 to present
EPSCoR, Mindful Leadership: Creating a Diverse and Inclusive UA Workshop	2018
EQUAL EMPLOYMENT OPPORTUNITY COMMISSION: Beyond the Binary Workshop	2021
MORALE, WELFARE, and RECREATION COMM. FLEET ACT: Power Boat Operation	2007
NAT'L ASSOC. of UNDERWATER INSTRUCTORS: Master SCUBA Diver and Nitrox Div	ver 2010
NAT'L CENTER for ECOLOGICAL ANALYSIS and SYNTHESIS (NCEAS): Reproducible Research Techniques for Synthesis Workshop	2019
PROFESSIONAL ASSOC. 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 Workshops: Creating More Inclusive Spaces in STEM	2021
TRIMBLE: Intermediate Mapping and GIS Certificate	2011
UNDERGRAD. RES. OPPORTUNITIES CTR, CSU MONTEREY BAY: Mentor Workshop	2014
VIRGINIA INSTITUTE of MARINE SCIENCE: Workshops Led by John M. Hoenig 14 Principles of Graphing Data; The Easy Way to Write a Scientific Paper	2015
WESTERN SOCIETY of NATURALISTS: Member	2010 to present