Cheryl L. Barnes (she, her)

1560 SW Ocean Ct | Waldport, OR 97394

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

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EDUCATION	
PhD, Fisheries UNIVERSITY of ALASKA FAIRBANKS (UAF) Collaborators: A. Beaudreau (UAF), L. Ciannelli (OSU), M. Dorn (AFSC, NOAA), K. Holsman (A M. Hunsicker (NWFSC, NOAA), F. Mueter (UAF), T. Quinn (UAF), R. Yamada (AK Charter Asso	
MS, Marine Science MOSS LANDING MARINE LABORATORIES (MLML) Degree awarded by San José State University (SJSU)	2015
Collaborators: R. Starr, S. Hamilton, and J. Harvey (MLML); K. Lesyna, P. Reilly, and T. Tanaka (
BS, Biology; Emphasis: Marine Biology SAN DIEGO STATE UNIVERSITY (SDSU)	2006
PROFESSIONAL POSITIONS	
COOPERATIVE INSTITUTE for CLIMATE, OCEAN, and ECOSYSTEM STUDIES UNIVERSITY of WASHINGTON – Seattle, WA ALASKA FISHERIES SCIENCE CENTER, NOAA – Seattle, WA	
ALASKA REGIONAL OFFICE, NOAA – Juneau, AK	
Research Scientist	2022 to present
Postdoctoral Scholar	2020 to 2021
SCALE BACK CONSULTING, LLC – Anchorage, AK	
Principal Investigator	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
Program Coordinator	2008
MWR: COMMANDER FLEET ACTIVITIES – Sasebo, Japan	
Head Lifeguard and Water Safety Instructor	2006 to 2008
TEACHING	
AMERICAN FISHERIES SOCIETY – Virtual	2021
Co-instructor: Spatiotemporal Analysis of Ecological Data	
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK	
Guest Lecturer: Making Ecological Inferences from Fisheries Data	2018
Teaching Assistant: Field Methods in Marine Ecology and Fisheries	2017
UNIVERSITY of ALASKA SOUTHEAST: INTRO. to ALASKA FISHERIES – Juneau, Ak Guest Lecturer: 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	2008 to 2010

MENTORSHIP

Undergraduate Students

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A. Aines (2013)	D. Duncan (2013)	L. Knopp (2009)	E. Schurig (2013)
D. Anaya (2013)	A. Feck (2009)	K. Kuhn (2008)	S. Saadat (2010-2011)
K. Askeland (2010)	A. Gile (2015)	J. Li (2020-2021)	P. Saengcharoentrakul (2021)
M. Bargas (2017)	C. Giordano (2014)	S. Link (2016)	N. Siababa (2014)
K. Beck (2014)	A. Hedger (2009)	S. Lomonico (2014)	E. Stollmeyer (2013)
E. Bjork (2008)	E. Hetherington (2009)	M. Mairz (2010)	H. Wayner (2016-2017)
S. Briley (2008)	C. Homer (2018)	R. McCollough (2013)	D. Weir (2009)
K. Brown (2016)	C. Hope (2010)	P. Muehlenbeck (2012)	
A. Chorazyczewski (2014)	Z. Johanson (2016)	R. Rand (2011-2012)	
C. Doles (2013)	A. Kamber (2017)	M. Schmidt (2012)	

Post-Baccalaureate Technicians

J. Antus (2009) S. Robinson (2011) A. Sloan (2014)

H. Heath (2013-2014) K. Ros (2010)

Graduate Students

G. Hunt (2015) H. Delgado-Nordmann (2016)

GRANTS AND FELLOWSHIPS

Magnuson-Stevens Act Implementation, Pls: J. Thorson, J. Pirtle, T. Essington – \$229,306	2020
California Sea Grant Program Development Award (DEI Plenary, WSN) – \$4,000	2021
Northern Gulf of Alaska Applied Research Award – \$10,000	2018, 2019
Rasmuson Fisheries Research Center Graduate Fellowship – \$78,901 2017,	2018, 2019
Pollock Conservation Cooperative Research Center, PI: A. Beaudreau – \$201,516	2015
SJSU Associated Students Advocacy Award – \$500	2014
SJSU Graduate Equity Fellowship – \$3,000	2013
Santa Monica Seafood's Responsible Sourcing Vendor Partner Grant (CCFRP) – \$15,000	2013, 2014
Clarence F. and Lyle V. Burmahln Scholarship – \$500	2013
Dr. Earl M. Myers and Ethel M. Myers Oceanographic and Marine Biol. Trust Grant – \$1,500	2013
MLML Scholar Award: Michael Lee Environmental Foundation – \$2,200	2013
Xiphias Martin Scholarship: John H. Martin Family – \$500	2013
Lucille and David Packard Foundation Research and Travel Grant – \$1,000	2013
CSU Council on Ocean Affairs, Science, and Technology Graduate Student Award – \$3,000	2013
California Sea Grant: Program Development Award (SDOF) – \$9,900	2010

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 f	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
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 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	2006, 2004

^{*} Superscripts correspond to those in 'PUBLICATIONS' and 'SELECTED PRESENTATIONS'

PUBLICATIONS

- **Barnes CL**, Waltz GT, Hamilton SL, Ruttenberg BI, Starr RM, Wendt DE, and Ziegler SL. In prep. Synchrony as a measure of resilience for temperate groundfish communities.
- 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.
- Dorn MW and **Barnes CL**. Submitted. Time-varying predation as a modifier of constant natural mortality for Gulf of Alaska pollock. Fish Res. VSI Natural Mortality.
- **Barnes CL**, Essington TE, Pirtle JP, Rooper CN, Laman EA, Holsman KK, Aydin KY, and Thorson JT. In review. Effects of model complexity on describing and forecasting species responses to climate change. Ecogr.
- 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.

* Superscripts correspond to those in 'AWARDS AND HONORS'

SELECT PRESENTATIONS

WESTERN SOCIETY of NATURALISTS – Virtual — Model complexity has contrasting benefits for hindcasting and forecasting species responses to climate change	2021
CENTER for the ADVANCEMENT of POPULATION ASSESSMENT METHODOLOGY – Virtual — Predation as a modifier of constant natural mortality for Gulf of Alaska pollock	2021
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

SELECT PRESENTATIONS, cont'd	
ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR – Seattle, WA — Ecological interactions among major groundfish species in the Gulf of Alaska	2018
AMERICAN FISHERIES SOCIETY: WESTERN DIVISION – Anchorage, AK ¹ WESTERN GROUNDFISH CONFERENCE – Seaside, CA ² — Assessing the potential for competition between Pacific Halibut (<i>H. stenolepis</i>) and Arrowtooth Flounder (<i>A. stomias</i>) in the Gulf of Alaska	2018 2018
AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – Fairbanks, AK ¹ 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 2017
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 (<i>G. chalcogrammus</i>) in the Gulf of Alaska ⁴	2016 2016
 WESTERN GROUNDFISH CONFERENCE – Newport, OR ^{2, 5, 6} WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK ⁷ — Growth, mortality, and reproductive seasonality of California Halibut (<i>P. californicus</i>): a biogeographic approach ⁶ 	2016 2015
 AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – 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 Pacific Halibut, Arrowtooth Flounder, and Walleye Pollock in the Gulf of Alaska 	2015
INTERNATIONAL FLATFISH SYMPOSIUM – Cle Elum, WA ⁸ — Age, growth, and reproductive potential of California Halibut (<i>P. californicus</i>)	2014
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 — MPA monitoring: more than just the latest and greatest in marine conservation trends	2014
WESTERN SOCIETY of NATURALISTS – Tacoma, WA ⁹ — Reproductive biology of California Halibut (<i>P. californicus</i>): results from the Central Coast	2014
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 MOSS LANDING MARINE LABORATORIES: OPEN HOUSE SEMINAR – Moss Landing, CA — Reproductive characteristics of California Halibut (<i>P. californicus</i>) off central California, with comparisons to the Southern California Bight ¹⁰	2013 2013
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, CA WESTERN GROUNDFISH CONFERENCE – Seattle, WA ² — Collaborative fisheries research: a transition from data-poor to data-rich management	2012 2012
SAN DIEGO BAY SYMPOSIUM – San Diego, CA — SDOF's White Seabass Restoration Project and its relevance to San Diego Bay * Superscripts correspond to those in 'AWARDS AND	2009 HONORS'

SERVICE AND OUTREACH

PEER REVIEWS		
Ecosphere	Fisheries Research	ICES Journal of Marine Science
Exxon Valdez Oil Spill	Fishery Bulletin	Journal of Fish Biology
Trustee Council	Frontiers in Marine Science	PLoS ONE
AMERICAN FISHERIES SOCIETY, D	iversity & Inclusion Committee	2021 to presen
WESTERN GROUNDFISH CONFER	ENCE, Steering Committee	2019 to presen
AMERICAN FISHERIES SOCIETY, AI		
Diversity, Equity, and Inclusion C		2018 to presen
Program, Awards (co-Chair), and Executive Committee	Entertainment Committees	2018 to 2019 2015 to 2011
	VECTEDAL DIVVICIONI	2013 t0 201
AMERICAN FISHERIES SOCIETY, W Diversity & Inclusion Committee	ESTERN DIVISION	2018 to presen
Annual Meeting Planning Commi	ttee	2010 to present
WESTERN SOCIETY of NATURALIS		
SKYPE A SCIENTIST, Volunteer		2018 to presen
ALASKA FISHERIES SCIENCE CENTI	ER (NOAA). Gender Equity Workin	•
UNIVERSITY OF ALASKA FAIRBAN	• •	9 0.00p
Assistant Professor in Quantitative		2018 to 2019
Graduate Academic and Advising	g Committee	2017 to 2019
Professional Development Works	hop Organizer	2018
SOUTHEAST ALASKA LGBTQIA+ A	alliance	
Board Member		2018 to 2019
Volunteer		2015 to 2019
SITKA SOUND SCIENCE CENTER, S		2018
PARTNERSHIP for INTERDISCIPLIN		,
ALASKA FISHERIES SCIENCE CENTI	•	Volunteer 2013
MOSS LANDING MARINE LABORA	ATORIES	2012 . 201
Curriculum Committee Donations Committee (Advisor)		2012 to 2014 2013 to 2014
Associated Student Body Vice Pr	resident	2013 to 2012 2011 to 2012
Donations Committee (Chair)	esident	2011 to 2012
MPA COLLABORATIVE NETWORK	, Participant	2011 to 2014
TEACHER ENHANCEMENT PROGR	•	2013
WATSONVILLE AREA TEENS CONS		
EXPANDING YOUR HORIZONS N	,	
MONTEREY BAY AQUARIUM, DSC	•	
SAN DIEGO STATE UNIVERSITY, C	~	2010
SAN DIEGO SCIENCE & ENGINEER		
SAN DIEGO COASTKEEPER, Outrea	,	2005 to 2000

PROFESSIONAL DEVELOPMENT	
ALASKA FISHERIES SCIENCE CENTER, NOAA: TIDE Pool Series Participant 2	021 to present
ALASKA MARINE SAFETY EDU ASSOC: Cold Water Survival, Skiff Operator	2017, 2015
AMERICAN ACADEMY of UNDERWATER SCIENCES: Scientific Diver 2	010 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
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
DIVERSITY BUILDER, Gender Diversity and an Inclusive Workplace: Participant	2021
EPSCoR, Mindful Leadership Creating a Diverse and Inclusive UA: Workshop Participant	2018
EQUAL EMPLOYMENT OPPORTUNITY COMM., Beyond the Binary: Workshop Participa	ant 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):	
Reproducible Research Techniques for Synthesis Workshop Participant	2019
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 Participan	t 2021
TRIMBLE: Intermediate Mapping and GIS Certificate	2011
UNDERGRAD. RES. OPPORTUNITIES CTR, CSU MONTEREY BAY: Mentor	2014
DELEVANIT ACCOCIATIONIC	

RELEVANT ASSOCIATIONS

500 QUEER SCIENTISTS

500 WOMEN SCIENTISTS

ALASKA CLIMATE INTEGRATED MODELING PROJECT

AMERICAN ACADEMY of UNDERWATER SCIENCES

AMERICAN FISHERIES SOCIETY

AMERICAN INSTITUTE OF FISHERY RESEARCH BIOLOGISTS

AMERICAN STATISTICAL ASSOCIATION

ECOLOGICAL SOCIETY of AMERICA

NOAA PRIDE

oSTEM

WESTERN SOCIETY of NATURALISTS