w: cheryl-barnes.github.io

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EDUCATION	
PhD, Fisheries UNIVERSITY of ALASKA FAIRBANKS (UAF)	2019
 Collaborators: A. Beaudreau (UAF), L. Ciannelli (OSU), M. Dorn (NOAA), K. F. M. Hunsicker (NOAA), F. Mueter (UAF), T. Quinn (UAF), R. Yamada (AK Ch 	
MS, Marine Science MOSS LANDING MARINE LABORATORIES (MLML) Degree awarded by San José State University (SJSU)	2015
— Collaborators: R. Starr, S. Hamilton, J. Harvey (MLML); K. Lesyna, P. Reilly, T.	Tanaka (CDFW)
BS, Biology; Emphasis: Marine Biology SAN DIEGO STATE UNIVERSITY (SDSU)	2006
PROFESSIONAL EXPERIENCE (2006 onward)	
COOPERATIVE INSTITUTE for CLIMATE, OCEAN, and ECOSYSTEM STUDIES (CIUNIVERSITY of WASHINGTON – Seattle, WA ALASKA FISHERIES SCIENCE CENTER, NOAA – Seattle, WA ALASKA REGIONAL OFFICE, NOAA – Juneau, AK	ICOES)
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	g, 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	2006 to 2008
TEACHING EXPERIENCE	
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, A Guest Lecturer: Pacific Halibut Biology, Ecology, and Management	AK 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

U	Inde	ergrad	luate	Stud	lents
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O			
A. Aines (2013)	D. Duncan (2013)	L. Knopp (2009)	E. Schurig (2013)
D. Anaya (2013)	A. Feck (2009)	K. Kuhn (2008)	S. Saadat (2010-11)
K. Askeland (2010)	A. Gile (2015)	J. Li (2020-21)	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 (2016-17)
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 (2011-12)	
C. Doles (2013)	A. Kamber (2017)	M. Schmidt (2012)	
Post-Raccalaureate Technic	rians		

Post-Baccalaureate Technicians

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

H. Heath (2013-14) K. Ros (2010)

Graduate Students

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

GRANTS AND FELLOWSHIPS

California Sea Grant Program Development Award (WSN) – \$4,000	2021
Northern Gulf of Alaska Applied Research Award – \$10,000	018 to 2019
Rasmuson Fisheries Research Center Graduate Fellowship – \$78,901	017 to 2019
Pollock Conservation Cooperative Research Center, PI: A. Beaudreau – \$201,516	015 to 2019
SJSU Associated Students Advocacy Award – \$500	2014
SJSU Graduate Equity Fellowship – \$3,000	013 to 2014
Santa Monica Seafood's Responsible Sourcing Vendor Partner Grant (CCFRP) – \$15,000 20	013 to 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 Awar	rd 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	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	3, 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

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. Can J Fish Aquat Sci. Forthcoming.
- 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. PNAS. Forthcoming.
- Dorn MW and **Barnes CL**. In revision. Time-varying predation as a modifier of constant natural mortality for Gulf of Alaska pollock. Fish Res. VSI Natural Mortality. Forthcoming.
- **Barnes CL**, Essington TE, Pirtle JP, Rooper CN, Laman EA, Holsman KK, Aydin KY, and Thorson JT. In revision. Climate-informed models benefit hindcasting but present challenges when forecasting species-habitat associations. Ecogr. 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. 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.

SELECT PRESENTATIONS (N total = 56) WESTERN SOCIETY of NATURALISTS – Virtual Model complexity has contrasting benefits 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 PICES (North Pacific Marine Science Organization) – Victoria, BC Development of a predation index to assess trophic stability in the Gulf of Alaska

SELECT PRESENTATIONS (N total = 56), cont'd	
ALASKA FISHERIES SCIENCE CENTER, NOAA: GROUNDFISH SEMINAR – Seattle, WA	2018
— Ecological interactions among major groundfish species in the Gulf of Alaska	2010
AMERICAN FISHERIES SOCIETY: WESTERN DIVISION – Anchorage, AK ¹	2018
WESTERN GROUNDFISH CONFERENCE – Seaside, CA ²	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
WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK ⁷ — Growth, mortality, and reproductive seasonality of California Halibut (<i>P. californicus</i>):	2015
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	
WESTERN SOCIETY of NATURALISTS – Tacoma, WA ⁹	2014
— Reproductive biology of California Halibut (<i>P. californicus</i>): results from the Central Coast	
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	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 Collaborative fisheries research: a transition from data poor to data rish management	2012
— Collaborative fisheries research: a transition from data-poor to data-rich management	2000
SAN DIEGO BAY SYMPOSIUM – San Diego, CA — SDOF's White Seabass Restoration Project and its relevance to San Diego Bay	2009

PROFESSIONAL SERVICE

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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

Frontiers in Marine Science, ICES Journal of Marine Science, Journal of Fish Biolo	
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
SAN DIEGO COASTKEEPER, Outreach and Community Event Intern	2005 to 2006

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		to 2015
Lifeguard and Water Safety Instructor; Fundamentals of Instructor Training		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	•
EPSCoR, Mindful Leadership Creating a Diverse and Inclusive UA: Workshop Partic	•	2018
EQUAL EMPLOYMENT OPPORTUNITY COMM., Beyond the Binary: Workshop Par	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): Reproducible Research Techniques for Synthesis Workshop Participant		2019
NOAA Pride Employee Resource Group: Member	2020 to	present
oSTEM: Member	2019 to	•
PROFESSIONAL ASSOCIATION of DIVING INSTRUCTORS:		1
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 Parti	icipant	2021
TRIMBLE: Intermediate Mapping and GIS Certificate	•	2011
UNDERGRAD. RES. OPPORTUNITIES CTR, CSU MONTEREY BAY: Mentor		2014
WESTERN SOCIETY of NATURALISTS: Member	2010	present