Cheryl L. Barnes (she / her)

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EDUCATION	
PhD, Fisheries UNIVERSITY of ALASKA FAIRBANKS (UAF)	2019
 College of Fisheries and Ocean Sciences, Juneau Fisheries Division 	
 Dissertation: Ecological interactions among important groundfishes 	s in the Gulf of Alaska
 MS, Marine Science MOSS LANDING MARINE LABORATORIES (MLML) Degree awarded by San José State University (SJSU) Growth, mortality, and reproductive potential of California Halibur 	2015
BS, Biology (Emphasis: Marine Biology) SAN DIEGO STATE UNIVERSITY (S	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 Fellow, Joint Institute for the Study of the Atmosphere and O	2020 to present
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK	
Teaching Assistant, Field Methods in Marine Ecology and Fisheries	2017
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (CCFRP) – Moss La	0
Lead Scientist	2011 to 2014
Volunteer Coordinator Science Crew	2010 to 2011 2010
CALIFORNIA SEA GRANT EXTENSION PROGRAM – San Diego, CA Program Representative	2010 to 2014
SAN DIEGO OCEANS FOUNDATION (SDOF) – San Diego, CA	
Program and Outreach Director	2008 to 2010
Program Coordinator	2008
MWR: COMMANDER FLEET ACTIVITIES – Sasebo, Japan	
Head Lifeguard and Water Safety Instructor	2006 to 2008
GRANTS AND FELLOWSHIPS	
Northern Gulf of Alaska Applied Research Award – \$10,000	2018 to 2019
Rasmuson Fisheries Research Center Graduate Fellowship – \$78,901	2017 to 2019
Pollock Conservation Coop. Research Center Graduate Res. Asst. – \$201,516	
SJSU Associated Students Advocacy Award – \$500	2014
SJSU Graduate Equity Fellowship – \$3,000	2013 to 2014
Santa Monica Seafood's Responsible Sourcing Vendor Partner Grant (CCFRP)	
Clarence F. and Lyle V. Burmahln Scholarship – \$500 Dr. Earl M. Myers and Ethel M. Myers Oceanographic and Marine Biol. Trust	2013 t Grant – \$1,500 2013
MLML Scholar Award: Michael Lee Environmental Foundation – \$2,200	2013 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 A	Award – \$3,000 2013
California Sea Grant: Program Development Grant (SDOF) – \$9,900	2010

AWARDS AND HONORS

American Institute of Fishery Biologists – W.F. Thompson Award (Best Student Paper in 2018) *	
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 ¹	2018
American Fisheries Society (AK Chapter) – Student Travel Award ² 2018	3, 2017, 2015
Western Groundfish Conference – Student Travel Award ³ 2018, 2016	, 2014, 2012
American Fisheries Society – West. Div. Student Colloquium Travel Award 4	2017
Western Groundfish Conference – Mirth Award ⁵ ; Second Place: Student Poster ⁶	2016
CSU Council on Ocean Affairs, Science, and Technology – Student Travel Award 8	2014
International Flatfish Symposium – Student Travel Award ⁹	2014
Monterey Bay National Marine Sanctuary Symposium – First Place: Student Poster 10	2013
SDSU – Dean's List, Honors Recognition	2006, 2004

PUBLICATIONS

- **Barnes CL**, Thorson JT, Essington TE, Pirtle JP, et al. In prep. Dynamic models inform essential fish habitat under rapid climate change in Alaskan waters.
- Holsman KK, Aydin K, Zador S, Barbeaux S, **Barnes CL** et al. In prep. Patterns in foraging and energetics of Bering Sea Walleye pollock and Pacific cod.
- **Barnes CL**, Beaudreau AH, and Yamada RN. In review. The role of size in trophic niche separation between two groundfish predators in Alaskan waters. Mar Coast Fish.
- **Barnes CL**, Beaudreau AH, Dorn MW, Holsman KK, and Mueter FJ. In press. Development of a predation index to assess trophic stability in the Gulf of Alaska. Ecol Appl. Forthcoming.
- **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-base 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.

SELECT PRESENTATIONS

ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK

2020

— Development of a predation index to assess trophic stability in the Gulf of Alaska

AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – Sitka, AK ²

2019

- Assessing the potential for competition between Pacific Halibut (*H. stenolepis*) and Arrowtooth Flounder (*A. stomias*) in the Gulf of Alaska
- Spatiotemporal variation in consumption of Walleye Pollock (*G. chalcogrammus*) by major groundfish predators in the Gulf of Alaska

SELECT PRESENTATIONS, cont'd	2010
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 ²	2018
WESTERN GROUNDFISH CONFERENCE – Seaside, CA ³ WESTERN SOCIETY of NATURALISTS – Tacoma, CA	2018 2018
 Assessing the potential for competition between Pacific Halibut (<i>H. stenolepis</i>) and Arrowtooth Flounder (<i>A. stomias</i>) in the Gulf of Alaska 	
UNIVERSITY of ALASKA FAIRBANKS: AQUATIC FOOD WEB ECOLOGY – Juneau, AK — Guest Lecture: Making ecological inferences from fisheries data	2018
AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – Fairbanks, AK ² AMERICAN FISHERIES SOCIETY: WESTERN DIV. STUDENT COLLOQUIUM – McCall, ID ⁴ — 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
UNIVERSITY of ALASKA SOUTHEAST: INTRO. to ALASKA FISHERIES – Juneau, AK — Guest Lecture: Pacific Halibut – biology, ecology, management	2016
ALASKA MARINE SCIENCE SYMPOSIUM – Anchorage, AK	2016
 WESTERN GROUNDFISH CONFERENCE – Newport, OR³ — Calculating an index of predation to improve the stock assessment for Walleye Pollock (G. chalcogrammus) in the Gulf of Alaska¹ 	2016
WESTERN GROUNDFISH CONFERENCE – Newport, OR ^{3, 5} AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER, STUDENT SYMPOSIUM – Juneau, AK WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK ⁷ — Growth, mortality, and reproductive seasonality of California Halibut (<i>P. californicus</i>): a biogeographic approach ⁶	2016 2015 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
CALIF. COLLAB. FISH. RES. PROG. – Half Moon Bay & Moss Landing, CA — Research objectives, data collection, and project results (training workshop) — MPA monitoring and other project results (participant workshop)	3, 2012
INTERNATIONAL FLATFISH SYMPOSIUM – Cle Elum, WA ⁹ — Age, growth, and reproductive potential of California Halibut (<i>P. californicus</i>)	2014
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, CA — Reproductive biology of CA Halibut (<i>P. californicus</i>): results from the Central Coast	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 ³ — MPA monitoring: more than just the latest and greatest in marine conservation trends	2014

SELECT PRESENTATIONS, cont'd	
WESTERN SOCIETY of NATURALISTS – Tacoma, WA ⁸ — Reproductive biology of California Halibut (<i>P. californicus</i>): results from the Centr	2014 ral Coast
CALIFORNIA DEPARTMENT of FISH and WILDLIFE – Belmont, CA — California Collaborative Fisheries Research Prog: objectives, results, and interpret	2013 ations
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seasing MOSS LANDING MARINE LABORATORIES: OPEN HOUSE SEMINAR – Moss Landing — Reproductive characteristics of California Halibut (<i>P. californicus</i>) off central California, with comparisons to the Southern California Bight ¹⁰	
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seasing WESTERN GROUNDFISH CONFERENCE – Seattle, WA ³ — 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	
AMERICAN FISHERIES SOCIETY, ALASKA CHAPTER Cultural Diversity Committee Programs, Awards, and Socials & Entertainment Committees Executive Committee Member; Student Subunit President	2018 to present 2018 to 2019 2015 to 2017
SKYPE A SCIENTIST, Volunteer	2018 to present
WESTERN GROUNDFISH CONFERENCE, Steering Committee	2019 to present
WESTERN SOCIETY of NATURALISTS, Diversity, Equity, & Inclusion Committee	2018 to present
AMERICAN FISHERIES SOCIETY, WESTERN DIVISION Diversity & Inclusion Committee	2018 to 2020
UAF COLLEGE of FISHERIES and OCEAN SCIENCES, Student Rep. Search Committee, Assistant Professor in Quantitative Fisheries	2018 to 2019
UAF GRADUATE ACADEMIC and ADVISING COMM., Graduate Student Rep.	2017 to 2019
UAF COLLEGE of FISHERIES and OCEAN SCIENCES, Graduate Research Volunteer Projects: M. Callahan (2017-2019), M. Chan (2016), D. Duncan (2016-2017), M. Kosma (2016-19), D. Michrowski (2015), J. Nielsen (2015)	2015 to 2019
VARIOUS UNIVERSITIES, Undergraduate Student Mentor Mentees: 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 (2 A. Gile (2015), C. Giordano (2014), A. Hedger (2009), E. Hetherington (20 C. Homer (2018), C. Hope (2010), Z. Johanson (2016), A. Kamber (2017), L. Knopp (2009), K. Kuhn (2008), S. Link (2016), S. Lomonico (2014),	
M. Mairz (2010), R. McCollough (2013), P. Muehlenbeck (2012), R. Rand M. Schmidt (2012), E. Schurig (2013), S. Saadat (2010-11), N. Siababa (2010-11), D. Weir (2009)	
COLLEGE of FISHERIES and OCEAN SCIENCES (UAF) PROF. DEV. WKSHP, Organizer	r 2018
PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunteer	2018; 2013-14

PROFESSIONAL SERVICE, cont'd	
SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer	2018
ALASKA FISHERIES SCIENCE CENTER (NOAA), Trawl Survey Volunteer	2017
UNIVERSITY of YORK, Graduate Student Mentor Mentees: H. Delgado-Nordmann (2016), G. Hunt (2015)	2015 to 2016
MOSS LANDING MARINE LABORATORIES Curriculum Committee, Student Representative Graduate Research Volunteer: J. Chiu (2014), J. Duryea (2010-14) R. Fields (2013-14), S. Kennedy (2010), A. Launer (2010-14), E. McHuron (2010), K. Schmidt (2010-14) Donations Committee, Advisor ^a and Chair ^b Associated Student Body, Vice President	2012 to 2014 2010 to 2014 a 2013-14, b 2011-12 2011 to 2012
MPA COLLABORATIVE NETWORK, Member	2011 to 2014
VARIOUS AFFILIATIONS, Post-Baccalaureate Mentor Mentees: J. Antus (2009), H. Heath (2013-14), S. Robinson (2011), K. Ros (2010) A. Sloan (2014)	2008 to 2014
TEACHER ENHANCEMENT PROGRAM, Marine Science Educator	2013
WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Ment	tor 2012 to 2013
EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunteer	r 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
CERTIFICATIONS, PROFESSIONAL ASSOCIATIONS, AND WORKSHOP PARTICIPATIONS	PATION
500 WOMEN SCIENTISTS, Alaska Chapter Member	2017 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. & ALASKA CH.: 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
COLLABORATIVE INST. TRAINING INITIATIVE	
Working with the IACUC; Field and Lab Animal Researchers	2015 to 2018
ECOLOGICAL SOCIETY of AMERICA, Student Member	2019 to present
EPSCoR, Mindful Leadership: Creating a Diverse and Inclusive UA Workshop	2018

CERTIFICATIONS, PROFESSIONAL ASSOCIATIONS, AND WORKSHOP PARTICIPATION, cont'd		
MORALE, WELFARE, and RECREATION COMM. FLEET ACT: Power Boat Operation	2007	
NAT'L ASSOC. of UNDERWATER INSTRUCTORS: Master SCUBA Diver and Nitrox Dive	r 2010	
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	
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	2015	
14 Principles of Graphing Data; The Easy Way to Write a Scientific Paper		
WESTERN SOCIETY of NATURALISTS: Student Member	2010 to present	