Cheryl L. Barnes (she | her)
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EDUCATION	١
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EDUCATION	
PhD, Fisheries   UNIVERSITY of ALASKA FAIRBANKS (UAF)	2019
<ul> <li>College of Fisheries and Ocean Sciences, Juneau Fisheries Division</li> </ul>	
<ul> <li>Dissertation: Ecological interactions among important groundfishes in the Gul-</li> </ul>	f of Alaska
MS, Marine Science   MOSS LANDING MARINE LABORATORIES (MLML)  • Degree awarded by San José State University (SJSU)	2015
— Thesis: Growth, mortality, and reproductive potential of California Halibut (P.	californicus)
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, Joint Institute for the Study of the Atmosphere and Ocean (JISAC)	2020 to present O)
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK	
Teaching Assistant, Field Methods in Marine Ecology and Fisheries	2017
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 EXTENSION PROGRAM – San Diego, CA  Program Representative	2010 to 2014
	2010 to 2011
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	_000
Head Lifeguard and Water Safety Instructor	2006 to 2008
	2000 to 2000
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 Cooperative Research Center, PI: A. Beaudreau – \$201,516 SJSU Associated Students Advocacy Award – \$500	2015 to 2019 2014
SJSU Graduate Equity Fellowship – \$3,000	2014 2013 to 2014
Santa Monica Seafood's Responsible Sourcing Vendor Partner Grant (CCFRP) – \$15,000	
Clarence F. and Lyle V. Burmahln Scholarship – \$500	2013
Dr. Earl M. Myers and Ethel M. Myers Oceanographic and Marine Biol. Trust Grant – \$1	
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,	
California Sea Grant: Program Development Grant (SDOF) – \$9,900	2010

## AWARDS AND HONORS

American Institute of Fishery Biologists – W.F. Thompson Award (Best Student I	Paper from 2018) * 2019
UAF Dean's Recognition Award – Outstanding Graduate Student	2019
Wakefield Fisheries Symposium – Student Travel Award <sup>7</sup>	2019, 2015
Western Groundfish Conference – First Place: Student Talk <sup>4</sup>	2018
American Fisheries Society, AK Chapter – Student Travel Award <sup>1</sup>	2018, 2017, 2015
Western Groundfish Conference – Student Travel Award <sup>2</sup>	2018, 2016, 2014, 2012
American Fisheries Society – Western Division Student Travel Award <sup>3</sup>	2017
Western Groundfish Conference – Mirth Award <sup>5</sup> ; Second Place, Student Poster	6 2016
CSU Council on Ocean Affairs, Science, and Technology - Student Travel Awa	ard <sup>9</sup> 2014
International Flatfish Symposium – Student Travel Award <sup>8</sup>	2014
Monterey Bay National Marine Sanctuary Symposium – First Place, Student Pos	ster <sup>10</sup> 2013
SDSU Dean's List – Honors Recognition	2006, 2004

<sup>\*</sup> Superscripts correspond to those in the 'SELECTED PRESENTATIONS' section.

## **PUBLICATIONS**

- **Barnes CL**, Essington TE, Pirtle JP, Thorson JT, et al. In prep. Dynamic models inform species responses to climate change in high latitude systems. Forthcoming.
- Holsman KK, **Barnes CL**, Aydin K, Thorson JT, *et al*. In prep. Patterns in foraging and energetics of midtrophic level predators in the Bering Sea. Forthcoming.
- Grüss A, Thorson JT, Stawitz CC, Reum JCP, Rohan SK, and **Barnes CL**. Accepted. 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.
- **Barnes CL**, Beaudreau AH, and Yamada RN. In press. The role of size in trophic niche separation between two groundfish predators in Alaskan waters. Mar Coast Fish. 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. 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, 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 — Development of a predation index to assess trophic stability in the Gulf of Alaska	2020
<ul> <li>PICES (North Pacific Marine Science Organization) – Victoria, BC</li> <li>— Assessing the potential for competition between Pacific Halibut (<i>H. stenolepis</i>) and Arrowtooth Flounder (<i>A. stomias</i>) in the Gulf of Alaska</li> <li>— Development of a predation index to assess trophic stability in the Gulf of Alaska</li> </ul>	2019
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 <sup>1</sup> WESTERN GROUNDFISH CONFERENCE – Seaside, CA <sup>2</sup> WESTERN SOCIETY of NATURALISTS – Tacoma, CA — 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 2018
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 <sup>1</sup> AMERICAN FISHERIES SOCIETY: WESTERN DIV. STUDENT COLLOQUIUM – McCall, ID <sup>3</sup> — 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 WESTERN GROUNDFISH CONFERENCE – Newport, OR <sup>2</sup> — Calculating an index of predation to improve the stock assessment for Walleye Pollock (G. chalcogrammus) in the Gulf of Alaska <sup>4</sup>	2016 2016
WESTERN GROUNDFISH CONFERENCE – Newport, OR <sup>2, 5, 6</sup> AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER, STUDENT SYMPOSIUM – Juneau, AK WAKEFIELD FISHERIES SYMPOSIUM – Anchorage, AK <sup>7</sup> — Growth, mortality, and reproductive seasonality of California Halibut ( <i>P. californicus</i> ): a biogeographic approach <sup>6</sup>	2016 2015 2015
<ul> <li>AMERICAN FISHERIES SOCIETY: ALASKA CHAPTER – Homer, AK<sup>2</sup></li> <li>— Effects of demography, trophic interactions, and the environment on major groundfish species in the Gulf of Alaska</li> <li>— Exploring environmental and demographic drivers of resource overlap among Pacific Halibut, Arrowtooth Flounder, and Walleye Pollock in the Gulf of Alaska</li> </ul>	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 <sup>8</sup> — Age, growth, and reproductive potential of California Halibut ( <i>P. californicus</i> )	2014

SELECT PRESENTATIONS, cont'd	
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, Comparison of CA Halibut ( <i>P. californicus</i> ): results from the Central Coast	CA 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	A 2014
WESTERN GROUNDFISH CONFERENCE – Victoria, Canada <sup>2</sup> — MPA monitoring: more than just the latest and greatest in marine conservation trends	2014
WESTERN SOCIETY of NATURALISTS – Tacoma, WA <sup>9</sup> — Reproductive biology of California Halibut ( <i>P. californicus</i> ): results from the Central C	2014 Joast
CALIFORNIA DEPARTMENT of FISH and WILDLIFE – Belmont, CA  — California Collaborative Fisheries Research Prog: objectives, results, and interpretation	2013 ns
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, Of 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 <sup>10</sup>	
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seaside, GWESTERN GROUNDFISH CONFERENCE – Seattle, WA <sup>2</sup> — 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  Diversity, Equity, and Inclusion Committee (Chair)  Programs, Awards (co-Chair), and Entertainment Committees  Executive Committee Member, Student Subunit President	018 to present 2018 to 2019 2015 to 2017
AMERICAN FISHERIES SOCIETY, WESTERN DIVISION	
,	018 to present
SKYPE A SCIENTIST, Volunteer 20	018 to present
<ul> <li>VARIOUS UNIVERSITIES, Undergraduate Student Mentor</li> <li>Mentees: A. Aines (2013), D. Anaya (2013), K. Askeland (2010), M. Bargas (2017),</li> <li>K. Beck (2014), E. Bjork (2008), S. Briley (2008), K. Brown (2016),</li> <li>A. Chorazyczewski (2014), C. Doles (2013), D. Duncan (2013), A. Feck (2009)</li> <li>A. Gile (2015), C. Giordano (2014), A. Hedger (2009), E. Hetherington (2009),</li> <li>C. Homer (2018), C. Hope (2010), Z. Johanson (2016), A. Kamber (2017),</li> <li>L. Knopp (2009), K. Kuhn (2008), Janelle Li (2020-21), S. Link (2016),</li> <li>S. Lomonico (2014), M. Mairz (2010), R. McCollough (2013), P. Muehlenbeck</li> <li>R. Rand (2011-12), M. Schmidt (2012), E. Schurig (2013), S. Saadat (2010-11),</li> <li>P. Saengcharoentrakul, N. Siababa (2014), E. Stollmeyer (2013),</li> <li>H. Wayner (2016-17), D. Weir (2009)</li> </ul>	: (2012),
WESTERN GROUNDFISH CONFERENCE, Steering Committee 20	019 to present
WESTERN SOCIETY of NATURALISTS, Diversity, Equity, & Inclusion Committee 20	018 to present

PROFESSIONAL SERVICE, cont'd	
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 Volunte Projects: M. Callahan (2017-2019), M. Chan (2016), D. Duncan (2016-2017), M. Kosma (2016-19), D. Michrowski (2015), J. Nielsen (2015)	
COLLEGE of FISHERIES and OCEAN SCIENCES (UAF) PROF. DEV. WKSHP, Orga	anizer 2018
SITKA SOUND SCIENCE CENTER, Scientist in the Schools Volunteer	2018
PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Volunt	teer 2018; 2013-14
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	2012 to 2014 2010 to 2014 a 2013-14, b 2011-12
Associated Student Body, Vice President	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 (201 A. Sloan (2014)	2008 to 2014 0),
TEACHER ENHANCEMENT PROGRAM, Marine Science Educator	2013
WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Me	entor 2012 to 2013
EXPANDING YOUR HORIZONS NETWORK, Young Women in Science Volunte	eer 2011 to 2013
MONTEREY BAY AQUARIUM, DSCVR Young Women in Science Mentor	2011 and 2013
MONTERET BAT AQUARION, BSCVR Toding Women in Science Mentor	
SAN DIEGO STATE UNIVERSITY, Graduate Research Assistant	2010
	2010 2009 to 2010

CERTIFICATIONS, PROFESSIONAL ASSOCIATIONS, AND WORKSHOP PARTICIPAT	ION
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, Member	2019 to present
EPSCoR, Mindful Leadership: Creating a Diverse and Inclusive UA Workshop	2018
MORALE, WELFARE, and RECREATION   COMM. FLEET ACT: Power Boat Operation	2007
NAT'L ASSOC. of UNDERWATER INSTRUCTORS: Master SCUBA Diver and Nitrox D	Diver 2010
NAT'L CENTER for ECOLOGICAL ANALYSIS and SYNTHESIS (NCEAS):	2010
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
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: Member	2010 to present