Cheryl L. Barnes (she | her)

PO Box 111321 | Anchorage, AK 99511 p: (831) 334-3484 · e: cheryl.lee.barnes@gmail.com w: cheryl-barnes.github.io

	w. cheryi-barnes.gittidb.io
EDUCATION	
PhD, Fisheries UNIVERSITY of ALASKA FAIRBANKS (UAF)	2019
 College of Fisheries and Ocean Sciences, Juneau Fisheries Division 	
 Dissertation: Ecological interactions among important groundfishes 	in the Gulf of Alaska
MS, Marine Science MOSS LANDING MARINE LABORATORIES (MLML) • Degree awarded by San José State University (SJSU) Crowth, martality, and reproductive natential of California Halibut	2015
— Growth, mortality, and reproductive potential of California Halibut	
BS, Biology (Emphasis: Marine Biology) SAN DIEGO STATE UNIVERSITY (SE	DSU) 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 Oc	2020 to present ean (JISAO)
UNIVERSITY of ALASKA FAIRBANKS – Juneau, AK	
Teaching Assistant, Field Methods in Marine Ecology and Fisheries	2017
CA COLLABORATIVE FISHERIES RESEARCH PROGRAM (CCFRP) – Moss Lan	ding, 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
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
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GRANTS AND FELLOWSHIPS	2010 / 2010
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	2015 to 2019 2014
SJSU Graduate Equity Fellowship – \$3,000	2014 2013 to 2014
Santa Monica Seafood's Responsible Sourcing Vendor Partner Grant (CCFRP) -	
Clarence F. and Lyle V. Burmahln Scholarship – \$500	2013
Dr. Earl M. Myers and Ethel M. Myers Oceanographic and Marine Biol. Trust (
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 Av	ward – \$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 F	Paper in 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 ¹	2018
American Fisheries Society, AK Chapter – Student Travel Award ²	2018, 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 Awar	rd ⁸ 2014
International Flatfish Symposium – Student Travel Award ⁹	2014
Monterey Bay National Marine Sanctuary Symposium – First Place, Student Pos	ter ¹⁰ 2013
SDSU Dean's List – Honors Recognition	2006, 2004

PUBLICATIONS

- **Barnes CL**, Essington TE, Thorson JT, Pirtle JP, et al. In prep. Dynamic models inform species responses to climate change in high latitude systems. Forthcoming.
- Holsman KK, Aydin K, **Barnes CL** *et al*. In prep. Patterns in foraging and energetics of Bering Sea Walleye pollock and Pacific cod. 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. Forthcoming.
- **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

PICES (North Pacific Marine Science Organization) – Victoria, BC

2020

2019

- Assessing the potential for competition between Pacific Halibut (*H. stenolepis*) and Arrowtooth Flounder (*A. stomias*) in the Gulf of Alaska
- Development of a predation index to assess trophic stability in the Gulf of Alaska

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 ² WESTERN GROUNDFISH CONFERENCE – Seaside, CA ³ 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 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 WESTERN GROUNDFISH CONFERENCE – Newport, OR ³ — Calculating an index of predation to improve the stock assessment for Walleye Pollock (G. chalcogrammus) in the Gulf of Alaska ¹	2016 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	2014

 Flatfish fecundity: evaluating the reproductive nature of a prolific spawner in and around Monterey Bay 	I	
WESTERN GROUNDFISH CONFERENCE – Victoria, Canada ³ — MPA monitoring: more than just the latest and greatest in marine conservation tre	ends	2014
SELECT PRESENTATIONS, cont'd		
WESTERN SOCIETY of NATURALISTS – Tacoma, WA ⁸ — Reproductive biology of California Halibut (<i>P. californicus</i>): results from the Cent	ral Coast	2014
CALIFORNIA DEPARTMENT of FISH and WILDLIFE – Belmont, CA — California Collaborative Fisheries Research Prog: objectives, results, and interpre	tations	2013
MONTEREY BAY NAT'L MAR. SANCTUARY SYMP: SANCTUARY CURRENTS – Seasi MOSS LANDING MARINE LABORATORIES: OPEN HOUSE SEMINAR – Moss Landin — 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 – Seasi WESTERN GROUNDFISH CONFERENCE – Seattle, WA ³	•	2012 2012
 Collaborative fisheries research: a transition from data-poor to data-rich manager SAN DIEGO BAY SYMPOSIUM – San Diego, CA SDOF's White Seabass Restoration Project and its relevance to San Diego Bay 	пепі	2009
PROFESSIONAL SERVICE		
AMERICAN FISHERIES SOCIETY, ALASKA CHAPTER Diversity, Equity, and Inclusion Committee (Chair) Programs, Awards (Chair), and Entertainment Committees Executive Committee Member; Student Subunit President	2018	o present to 2019 to 2017
SKYPE A SCIENTIST, Volunteer	2018 to	present
WESTERN GROUNDFISH CONFERENCE, Steering Committee	2019 tc	present
		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),	2009), 009),	to 2017

M. Mairz (2010), R. McCollough (2013), P. Muehlenbeck (2012), R. Rand (2011-12),
M. Schmidt (2012). F. Schurig (2013). S. Saadat (2010.11). N. Siababa (2014).

M. Schmidt (2012), E. Schurig (2013), S. Saadat (2010-11), N. Siababa (2014), E. Stollmeyer (2013), H. Wayner (2016-17), D. Weir (2009)

COLLEGE of FISHERIES and OCEAN SCIENCES (UAF) PROF. DEV. WKSHP, Organ	izer 2018
PARTNERSHIP for INTERDISCIPLINARY STUDIES of COASTAL OCEANS, Voluntee	er 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	2012 to 2014
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)	2010 to 2014
Donations Committee, Advisor a and Chair b	^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 (2010), A. Sloan (2014)	2008 to 2014
TEACHER ENHANCEMENT PROGRAM, Marine Science Educator	2013
WATSONVILLE AREA TEENS CONSERVING HABITATS PROGRAM, Science Ment	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
CERTIFICATIONS, PROFESSIONAL ASSOCIATIONS, AND WORKSHOP PARTICIP	ATION
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	2226 - 2245
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	2013 to present 2011
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ECOLOGICAL SOCIETY of AMERICA, Member 2	2019 to present
EPSCoR, Mindful Leadership: Creating a Diverse and Inclusive UA Workshop	2018
CERTIFICATIONS, PROFESSIONAL ASSOCIATIONS, AND WORKSHOP PARTICIPATION	N , cont'd
MORALE, WELFARE, and RECREATION COMM. FLEET ACT: Power Boat Operation	2007
NAT'L ASSOC. of UNDERWATER INSTRUCTORS: Master SCUBA Diver and Nitrox Diver	r 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
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 2	2010 to present

2014

2015 to 2018

CA OCEAN SCIENCE TRUST: CA Citizen Science Initiative Workshop

Working with the IACUC; Field and Lab Animal Researchers

COLLABORATIVE INST. TRAINING INITIATIVE