

Jessica R. Randall

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EDUCATION

B.S. University of Washington, School of Aquatic and Fishery Sciences March 2013
 Major: Aquatic and Fishery Sciences Minor: Marine Biology
 Senior thesis: “Temporal and spatial variation in springtime ichthyoplankton assemblages in Puget Sound”

WORK / RESEARCH EXPERIENCE

Research Fisheries Biologist – Alaska Fisheries Science Center (AFSC), Seattle WA June 2014 – Present

- Provide verification of ichthyoplankton identifications from the Gulf of Alaska to the Beaufort Sea
- Manage egg and ichthyoplankton archives at the center, as well as address all specimen inquiries and facilitate annual transfer to the University of Washington Fish Collection
- Participate in research cruises, collaborate in taxonomic/systematic studies, and lead ichthyoplankton assemblage analysis with data from the Chukchi Oceanography, Acoustics, and Zooplankton (CHAOZ) survey

Contractor – Northwest Fisheries Science Center (NWFSC), Watershed Division Jan 2014 - Dec 2014

- Performed diet analysis for juvenile salmonid stomachs collected in Puget Sound
- Identified all larval fish found in stomachs to lowest possible taxonomic level
- Synthesized and drafted project results

North Pacific Groundfish Observer, Alaskan Observers, Inc. Seattle, WA April 2013 - Nov. 2013

- Provided detailed species composition and biological data for the National Marine Fisheries Service as a fisheries biologist onboard commercial fishing vessels in the Bering Sea
- Determined appropriate method of random sampling of catch for each unique vessel and fishery
- Maintained paper and digital records of all sampling events as well as all personal and assigned gear
- Gained rapport with vessel leadership, worked with the crew to maximize sampling opportunities to fulfill requirements and minimize impact on fishing activities whenever possible

UNIVERSITY OF WASHINGTON (UW)

Student Intern, NWFSC, Seattle, WA April 2012 - April 2013

- Identified ichthyoplankton sampled in Puget Sound to the lowest taxonomic level possible
- Compared larval fish assemblages to historical abundance in Puget Sound and the WA coastal region from last comprehensive survey, conducted in the late 1960's
- Performed univariate and multivariate statistical analysis, drafted manuscript and working towards publication

Field Researcher, University of Washington field course, Bristol Bay, AK June - Aug. 2013

- Studied the relationship between stream gradient and spawning densities in Knutson Creek, AK
- Maintained long term salmon abundance data through stream count surveys, collection of biological data (otolith extraction, sex/length/weight data), and tagging studies
- Lived and worked with visiting scientists, professors, and graduate students near Dillingham, AK

- Student Technician, Wetland Ecosystems Team Oct. 2011-Sep. 2012
- Identified benthic macroinvertebrates to family level in benthic core samples for a seawall restoration project in Burien, WA
 - Processed stable isotope samples from Skagit River and Padilla Bay, WA
- Student Technician, Zebrafish Lab (Health Sciences department) Oct. 2009 – June 2010
- Maintained water quality of five independent filtration systems, grew/harvested rotifers and paramecium, and administer feed to ~25,000 specimens in two labs
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VOLUNTEER EXPERIENCE

- Outreach: Classroom visit, Begich Middle School, Anchorage AK January 2016
- Spent a full day in 6th - 8th grade science classrooms, sharing experience in current position, background on academic/professional path, and information about how to begin exploring a future in the field of fisheries
 - Spoke in 5 class periods to two combined classrooms, totally over 250 students reached
- Outreach: Science Communication via Science Blog August 2015
- Maintained a blog through AFSC website providing while onboard the NOAA Ship Ron Brown
 - Composed both written and visual (photograph) updates geared to engage a general audience while providing an engaging look at the science and work that occurs at sea
 - Eleven entries written over 30 day period
- Vist the blog at http://www.afsc.noaa.gov/Science_blog/arctic_cruise1.htm
- Wetland Ecosystems Team Lab, University of Washington, Seattle, WA Fall 2010/Spring 2011
- Performed beach seine surveys in the lower Columbia and Lewis Rivers investigating juvenile salmonids use of confluence habitat
- Community Beach Seine Effort, Kitsap County, WA Summer 2010/11
- Assisted biologists from the Suquamish tribe with a regional beach seining effort as part of a community volunteer effort
- Freshwater Ecology and Conservation Lab, University of Washington, Seattle, WA Summer 2010
- Assisted graduate student with predator/prey experiments in artificial stream channels at Western Fisheries Research Center
 - Trapped native crayfish in Lake Martha, WA with graduate student for Master's thesis
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LEADERSHIP EXPERIENCE

- Arctic Encounter Symposium Participant, Seattle, WA January 15-16, 2016
- Pursued interest in building a more comprehensive understanding of Arctic issues, self-funded
- Larval Fish Workshop, Virginia Institute of Marine Science (VIMS), Gloucester Pt, VA October 5-16, 2015
- Worked with other students from around the world to identify fish larvae and eggs from sampling conducted in the Antarctic region, Amazon plume, Japan and Hawaii.

Dept. of Comm. Mentoring Program Graduate

August 2014- June 2015

- Partnered with a Policy Analyst at the Greater Atlantic Regional Fisheries Office
- Participated in bi-monthly phone calls to establish program goals through a Mentoring Action Plan, create learning objectives and reflect on recent work activities/tasks
- Activities included participating in conference calls for fishery planning meetings, meeting with new individuals/mutual contacts at AFSC, planning larval fish workshop and attending leadership seminars

Society for Undergraduate Resources in Fisheries (SURF) University of Washington: President 2012-2013, Co-President 2011-2012, Outreach Coordinator 2010-2011

- Coordinated group study sessions around finals week, social functions, and created a number of career development events including a resume building workshop, graduate student panel, and Meet and Greet dinners with department professors

PRESENTATIONS

- 04/16 **CHAOZ in the Arctic: characterizing ichthyoplankton assemblages in the eastern Chukchi Sea.** *EcoFOCI Spring Seminar*. Seattle, WA. Oral.
- 01/16 **Gulf of Alaska Integrated Ecosystem Research Program: ichthyoplankton diversity in the eastern and western Gulf of Alaska during spring and summer of 2011 and 2013.** *Alaska Marine Science Symposium (AMSS)*. Anchorage, AK. Co-author. Poster.
- 10/15 **An overview and preliminary findings of the Gulf of Alaska Integrated Ecosystem Research Project (GOA-IERP).** *Larval fish workshop VIMS*, Gloucester Point, VA.
- 06/14 **Temporal and spatial variation in springtime ichthyoplankton assemblages in Puget Sound – the search for an ecological baseline.** *WDFW-NOAA Seminar* Olympia, WA. Oral. Invited Speaker.
- 04/14 **Temporal and spatial variation in springtime ichthyoplankton assemblages in Puget Sound – the search for an ecological baseline.** *Salish Sea Ecosystem Conference (SSEC)*, Seattle, WA. Oral.
- 03/14 **Temporal and spatial variation in springtime ichthyoplankton assemblages in Puget Sound.** *American Fisheries Society Western Division Meeting*, Mazatlan, Mexico. Poster.
- 03/13 **Temporal and spatial variation in springtime ichthyoplankton assemblages in Puget Sound.** *Washington – British Columbia American Fisheries Society Chapter, Annual General Meeting*, Chelan, WA. Oral.
- 11/12 **Streams, slope and sockeye: the relationship between gradient and spawning salmon densities.** *Alaska Salmon Program Symposium*, UW, Seattle, WA. Oral.
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PUBLICATIONS

Randall, J., M. Busby, K. Mier, and A. Spear. CHAOZ in the Arctic: characterizing ichthyoplankton assemblages in the eastern Chukchi Sea. (*In prep.*)

Randall, J., C. Greene, C. Rice, M. Busby, R. Brodeur, and T. Auth. Temporal and spatial variation of springtime ichthyoplankton assemblages in Puget Sound. (*In prep.*)

Quinn, T., C. Cunningham, **J. Randall**, & R. Hilborn. 2014. Can intense predation by bears exert a depensatory effect on recruitment in Pacific salmon population? *Oecologia* 176:445-456.

RESEARCH CRUISES

Scheduled R/V Oscar Dyson. Spring ichthyoplankton survey. Southeast Bering Sea. May - June 2016, 23 days

R/V Ron Brown. Arctic whale ecology study (ARCWEST)/(CHAOZ). Chukchi and Beaufort Seas. August - Sept. 2015, 30 days

F/V Northwest Explorer. Oceanography, zooplankton and fish abundance assessment. Southeast Alaska. July 2015, 15 days

R/V Oscar Dyson. Spring ichthyoplankton survey. Western Gulf of Alaska. May - June 2015, 23 days

R/V Oscar Dyson. Bering Arctic Subarctic Integrated Survey. Northern Bering Sea. Sept. - Oct. 2014, 17 days

RECOGNITION

Honorable Mention – Best Student Oral Presentation (SSEC)	2014
WA-BC AFS Student Travel Award	2013
SAFS Alumni Students First Scholarship	2012-2013
Faculty Endowment for Student Support Scholarship	2011-2012
Floyd E. Ellis Memorial Scholarship	2010-2011
William McLeod Chapman Memorial Scholarship	
Floyd E. Ellis Memorial Scholarship	2009-2010
Kitsap Audubon Society Scholarship	
Flotsam & Jetsam Hansville Garden Club Scholarship	

SKILLS & SOFTWARE

Microsoft Office Suite, PRIMER 6.1/7.0, ArGIS

Washington State Boaters License

PADI Open Water, Drysuit certified

STCW Cold Water Survival Training (February 2015), Medical Emergencies at Sea certification (August 2014), 196 sea days (114 observer, 17 DY1408, 23 DY1505, 12 NW1502, 30 RB1505)

Hazardous Material Shipping training (Dec 2014): ICAO/IATA (2 year cert.), 49CFR/DOT (3 year cert.)

PROFESSIONAL AFFILIATIONS

American Fisheries Society, Early Life History section *since 2013*

American Institute for Fishery Research Biologists (Member level) *since 2014*