

Jessica Rose Glass

Yale University
Ecology & Evolutionary Biology
New Haven, CT 06511, USA

+27 0636563643; +1 3097509821
jessica.glass@yale.edu
jessicaglassresearch.com

Education

Yale University | New Haven, CT

PhD, Ecology and Evolutionary Biology, expected 2019

University of Alaska Fairbanks, School of Fisheries and Ocean Sciences | Juneau, AK

M.S., Fisheries, August 2014

Yale University | New Haven, CT

B.S., Ecology and Evolutionary Biology, May 2010

Research

Yale University | New Haven, Connecticut, USA (Aug 2014 - present)

PhD Student, Department of Ecology and Evolutionary Biology

“Investigating patterns and processes of evolution, ecology, and diversification in carangiform fishes”

Advisor: Dr. Thomas Near

South African Institute for Aquatic Biodiversity | Grahamstown, South Africa (May 2015 – present)

USAID Research and Innovation Fellow

“Investigating connectivity and phylogeography of marine fishes in the southwestern Indian Ocean using molecular techniques”

Collaborators: Dr. Paul Cowley and Dr. Gavin Gouws

University of Alaska Fairbanks | Juneau, AK (Aug 2011 - Aug 2014)

NSF IGERT Program: MESAS (Marine Ecosystem Sustainability in the Arctic and Subarctic)

“Spatiotemporal variability of benthic communities on Alaskan weathervane scallop beds”

Advisor: Dr. Gordon Kruse, UAF School of Fisheries and Ocean Sciences

South African Institute for Aquatic Biodiversity | Grahamstown, South Africa (Jun - Aug 2012)

“Patterns of molecular divergence in the spangled emperor (*Lethrinus nebulosus*).”

Mentor: Dr. Gavin Gouws, SAIAB

Smithsonian National Museum of Natural History | Washington, D.C. (Jun - Aug 2010)

Intern, Natural History Research Experiences Program

“Species or Populations? Investigation of local genetic divergence in the Goby fish genus *Bathygobius*.”

Mentor: Dr. Carole Baldwin, NMNH Division of Fishes

The Rocky Mountain Biological Laboratory | Gothic, CO (Jun - Aug 2009)

National Science Foundation, Research Experiences for Undergraduates (REU) Program

“The effect of riparian proximity on species richness and abundance of birds nesting in aspen (*Populus tremuloides*) woodlands.”

Mentor: Dr. Chris Floyd, University of Wisconsin-Eau Claire Dept. of Biology

Max-Planck Institute for Evolutionary Anthropology | Leipzig, Germany (Jun - Aug 2008)

Intern, Department of Comparative and Developmental Psychology, Dog Studies

“Understanding of human communicative motives in domestic dogs.”

Mentors: Dr. Juliane Kaminski and Dr. Michael Tomasello

Publications

Glass, J.R. and G.H. Kruse. 2017. Spatiotemporal variability of benthic communities on weathervane scallop beds off Alaska, USA. *Marine and Coastal Fisheries* 9(1); 521–534.

Glass, J.R., M. Davis, T.J. Walsh, E.J. Sargis, and A. Caccone. 2016. Was frozen mammoth or giant ground sloth served for dinner at the Explorers Club? *PLoS ONE* 11(2):e0146825. doi:10.1371/journal.pone.0146825

Glass, J.R. and C.H. Floyd. 2015. The effect of riparian proximity on species richness and abundance of birds nesting in aspen woodlands. *Journal of Field Ornithology* 86(3): 252-265. DOI: 10.1111/jof.12105

Glass, J.R., G.H. Kruse, and S.A. Miller. 2015. Socioeconomic considerations of the commercial weathervane scallop fishery off Alaska using SWOT analysis. *Ocean and Coastal Management* 105: 154–165. DOI: 10.1016/j.ocecoaman.2015.01.005

Grants & Fellowships

Yale University, MacMillan International Dissertation Research Fellowship | 2017–2018 (\$18,000)

National Science Foundation Doctoral Dissertation Improvement Grant | 2017 (\$11,000)

National Science Foundation Graduate Research Fellow | 2011-2016 (\$30,000/yr for 3 years)

U.S. Agency For International Development (USAID) Research and Innovation Fellow | 2014-2016
National Science Foundation Graduate Research Opportunities Worldwide (\$24,000)

The Explorers Club, Exploration Fund Grant | 2015 (\$900)

North Pacific Research Board | 2013-2015 (\$53,000)
“Analysis of benthic communities on Alaskan weathervane scallop beds”
Co-authored with Dr. Gordon Kruse (PI)

Bureau of Ocean and Energy Management | 2013-2014 (\$12,000)
“Analysis of benthic communities on weathervane scallop beds in Shelikof Strait”
Co-authored with Dr. Gordon Kruse (PI). Awarded through the Alaska Coastal Marine Institute.

H. Richard Carlson Memorial Scholarship | 2013-2014 (\$7,000)

Northern Gulf of Alaska Applied Research Award | 2012-2013 (\$5,000)

National Science Foundation Research Experiences for Undergraduates (REU) | 2009 (\$5,000)

Awards & Honors

Poster Award, 2nd place | 2017
Western Indian Ocean Marine Science Association, 10th Scientific Symposium. Dar es Salaam, Tanzania.

Oral Presentation Award, 2nd place | 2017
Yale University, Ecology and Evolutionary Biology Graduate Student Symposium. New Haven, CT.

Best PhD Poster Award | 2016
Southern African Society for Systematic Biology 12th Biannual Conference. Bloemfontein, South Africa.

Dr. H Richard Carlson Scholarship | 2013
Awarded to a fisheries biology student at the University of Alaska Fairbanks demonstrating motivation, leadership and academic potential.

2010 Yale Club of New Haven Greg Yamanaka Senior Essay Prize
Presented for the best senior essay making use of the collections and/or archives of the Yale Peabody Museum of Natural History.

2010 Berkeley College Commonplace Society Leadership Prize

Oral Presentations

J. R. Glass and G. H. Kruse. The effects of commercial dredging and trawling on epifaunal benthic communities associated with weathervane scallops in Alaska. ICES Symposium. Tromsø, Norway. 2014.

J. R. Glass and G. H. Kruse. Benthic community structure helps inform essential fish habitat definitions for weathervane scallops (*Patinopecten caurinus*). Alaska Chapter of the American Fisheries Society. Juneau, AK. 2014.

J. R. Glass, G. H. Kruse, and G. E. Rosenkranz. Variation in benthic species associated with weathervane scallop beds off Kodiak Island. Kodiak Area Marine Science Symposium. Kodiak, AK. 2014.

J. R. Glass and G. H. Kruse. Spatiotemporal variation in benthic community composition on weathervane scallop beds in Shelikof Strait. Alaska Marine Science Symposium. Anchorage, AK. 2014.

J. R. Glass, G. H. Kruse, and G. E. Rosenkranz. Differences in community composition between Alaskan weathervane scallop beds within state fishery registration areas. Alaska Chapter of the American Fisheries Society Fairbanks, AK. 2013.

J. R. Glass, G. H. Kruse, and S. A. Miller. Strengths, weaknesses, opportunities and threats: A SWOT analysis of the Alaskan weathervane scallop fishery. Alaska Chapter of the American Fisheries Society Fairbanks, AK. 2013.

Gouws, G., S. Fennessy, **J. R. Glass**, W. Holleman, O. Berry, and B. Q. Mann. Two species managed as one stock? Genetic stock structure and a cryptic species in the spangled emperor (*Lethrinus nebulosus*) in the South Western Indian Ocean. The 8th Western Indian Ocean Marine Science Association Scientific Symposium. Maputo, Mozambique. 2013

J. R. Glass. Spatiotemporal analysis of benthic communities on Alaskan weathervane scallop beds. American Fisheries Society, Alaska Chapter, 16th Annual Student Symposium. Juneau, AK. 2012.

Colosi, J. G., **J. R. Glass**, and T. J. Near. Six new darter species show the importance of molecular phylogenies for species delimitation. Joint Meeting of Ichthyologists and Herpetologists. Providence, RI. 2010.

Glass, J. R. Phylogenetic resolution of the barcheek darters using nuclear genes and species tree inferences. Yale University Ecology and Evolutionary Biology Senior Symposium. New Haven, CT. 2010.

Poster Presentations

J.R. Glass, P.D. Cowley, and T.J. Near. Phylogeography of an iconic sportfish, the Giant Trevally (*Caranx ignobilis*), and implications for fisheries management. Western Indian Ocean Marine Science Association Scientific Symposium. Dar es Salaam, Tanzania. 2017. *2nd Place Award for Poster*

J.R. Glass, R.C. Harrington, P.D. Cowley, and T.J. Near. Long live the kingfish: patterns and processes of evolution in carangiform fishes. 10th Indo-Pacific Fish Conference. Pape'ete, Tahiti, French Polynesia. 2017.

J. R. Glass, G. Gouws, P.D. Cowley and T.J. Near. Phylogeography of the giant trevally (*Caranx ignobilis*) across the Indo-Pacific. Southern African Society for Systematic Biology 12th Biannual Conference. Bloemfontein, South Africa. 2016. *Awarded Best PhD Poster Prize*

J. R. Glass, G.H. Kruse, and S.A. Miller. Dredging up strengths, weaknesses, opportunities and threats to the Alaskan weathervane scallop fishery. Alaska Marine Science Symposium. Anchorage, AK. 2014.

J. R. Glass, G. H. Kruse, and G. E. Rosenkranz. Spatiotemporal analysis of benthic communities on weathervane scallop beds. Alaska Marine Science Symposium. Anchorage, AK. 2013.

J. R. Glass, G. H. Kruse, and G. E. Rosenkranz. Analysis of benthic communities on weathervane scallop beds. Alaska Chapter of the American Fisheries Society. Kodiak, AK. 2012.

J. R. Glass and G. L. Eckert. Marine ecosystem sustainability IGERT: Interdisciplinary graduate education in Alaska. Alaska Marine Science Symposium. Anchorage, AK. 2012.

J.R. Glass and C. C. Baldwin. "Species or Populations? Investigation of local genetic divergence

in western Atlantic *Bathygobius* fishes." Smithsonian National Museum of Natural History Summer Poster Symposium. Washington, D.C. 2010.

Guest Lectures

"Fisheries Phylogenetics" University of Alaska Southeast. BIOL 362: Genetics.
Instructor: Patrick Barry. Juneau, AK. November 22, 2013.

"Fish and invertebrates living on Alaskan weathervane scallop beds." Alaska Coastal Rainforest Center Brown Bag Lecture Series. Juneau, AK. September 4, 2013.

"Fishery Genetics" University of Alaska Fairbanks. FISH 427: Ichthyology.
Instructor: Dr. Megan McPhee. Juneau, AK. November 27, 2012.

"Species Abundance, Diversity and Foodwebs" University of Alaska Southeast. BIOL 271: Ecology.
Instructor: Dr. David Tallmon. Juneau, AK. April 17, 2012.

Memberships

Student Member, The American Fisheries Society, Alaska Chapter

Student Member, American Society for Ichthyologists and Herpetologists

Member, Diversity of the Indo-Pacific Network (DIPnet) Research Coordination Network

Tribal Member, Wyandot Nation of Kansas

Term Member, The Explorers Club

Workshops

- Attended the Bodega Bay Applied Phylogenetics Workshop. University of California Davis, Bodega Marine Laboratory. March 2017.
- Organized and led a workshop on the multivariate ecological software PRIMER for scientists at the Seychelles Fishing Authority in Mahé, Seychelles. February 2016.
- Organized and led a CV writing workshop for postgraduate students at the South African Institute for Aquatic Biodiversity in Grahamstown, South Africa. May 2016.

Activities

- Mentor, Women in Science at Yale. 2014 – Present.
This group promotes gender equality and women in the sciences. I currently mentor an undergraduate woman interested in evolution.
- Mentor, New Haven Science Fair. 2014 – 2015.
Mentored 7th and 8th grade underrepresented students at Clemente Leadership Academy in New Haven. Assisted students with project design, data collection, experiment setup, data analysis, and presentation of results. Two teams of young women were selected to attend the fair, one of which was awarded 2nd place.

Students

Co-advisor to Sheena Talma, MSc in Ichthyology, Rhodes University, South Africa (2015 – Present)