

EDUCATION

PhD, Ecology and Evolutionary Biology, December 2019

Yale University, New Haven, CT

M.S., Fisheries, August 2014

University of Alaska Fairbanks, College of Fisheries and Ocean Sciences, Juneau, AK

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

Yale University, New Haven, CT

PROFESSIONAL APPOINTMENTS

2021 – present **Assistant Professor**, University of Alaska Fairbanks, College of Fisheries and Ocean Sciences

2021 – present **Honorary Research Associate**, South African Institute for Aquatic Biodiversity (SAIAB)

2019 – present **Sole Proprietor**, Pelagus Marine Research, LLC

2019 – 2021 **Postdoctoral Fellow**, South African Institute for Aquatic Biodiversity (SAIAB)

Advisors: Paul Cowley (SAIAB) and John Kauwe (Brigham Young University)

PUBLICATIONS

- (9) Ghezelayagh, A., R.C. Harrington, E.D. Burrell, M.A. Campbell, J. Buckner, P. Chakrabarty, **J.R. Glass**, W.T. McCraney, C.E. Thacker, M.E. Alfaro, S.T. Friedman, S.A. Price, A. Dornburg, B.C. Faircloth, P.C. Wainwright, and T.J. Near. 2022. Prolonged morphological expansion of spiny-rayed fishes following the end-Cretaceous. Accepted. *Nature Ecology and Evolution*.
- (8) Pickett B.D, Talma S., **Glass J.R.**, Ence D., Johnson T.P., Cowley P.D., Ridge P.G., and Kauwe J.S.K. 2022. Genome assembly of the roundjaw bonefish (*Albula glossodonta*), a vulnerable circumtropical sportfish. *Gigabyte*, 2022, DOI: 10.46471/gigabyte.44
- (7) Pickett, B.M., **J.R. Glass**, P.G. Ridge, and J.S.K. Kauwe. 2021. *De novo* genome assembly of the marine teleost, bluefin trevally (*Caranx melampygus*). *G3 Genes|Genomes|Genetics* jkab229. DOI: 10.1093/g3journal/jkab229
- (6) **Glass, J.R.**, S.R. Santos, J.S.K. Kauwe, B.M. Pickett, and T.J. Near. 2021. Phylogeography of two marine predators, giant trevally (*Caranx ignobilis*) and bluefin trevally (*Caranx melampygus*), across the Indo-Pacific. *Bulletin of Marine Science* 97(2): 257–280. DOI: 10.5343/bms.2019.0114
- (5) **Glass, J.R.**, R. Daly, P.D. Cowley, and D.M. Post. 2020. Spatial trophic variability of a coastal apex predator, the giant trevally *Caranx ignobilis*, in the western Indian Ocean. *Marine Ecology Progress Series* 641:195–208. DOI: 10.3354/meps13305
- (4) **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. DOI: 10.1080/19425120.2017.1370041
- (3) **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
- (2) **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/jfo.12105
- (1) **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

PUBLICATIONS IN REVIEW

- W. Holleman, **J.R. Glass**, B.Q. Mann, and G.G. Gouws. In Revision. A new species of the emperor fish *Lethrinus* (Perciformes: Lethrinidae) from the southwest Indian Ocean. *Zootaxa*.
- Glass, J.R.**, K. B. Belle, N. Bodin, G. Berke, A. Burt, M. I. Duncan, S. Morgan, P. Pillay, and S. Talma. In review.

Evaluating the feasibility of sustainable seafood labelling programmes in Small Island Developing States: A case study in the Seychelles. *Frontiers in Marine Science*.

Pickett, B.M., **J.R. Glass**, P.G. Ridge, and J.S.K. Kauwe. In Prep. Genome of a Giant (Trevally): *Caranx ignobilis*.

Glass, J.R., R.C. Harrington, P.F. Cowman, B.C. Faircloth, and T.J. Near. In Prep. Widespread sympatry in a species-rich clade of marine fishes (Carangoidea).

AWARDS AND HONORS

- 2020 **Oral Presentation Award, 1st place**
South African Institute for Aquatic Biodiversity Annual Symposium. Makhanda, South Africa.
- 2019 **Oral Presentation Award, 2nd place**
Southern African Society for Systematic Biology 14th Biannual Conference. Johannesburg, South Africa.
- 2017 **Poster Award, 2nd place**
Western Indian Ocean Marine Science Association, 10th Scientific Symposium. Dar es Salaam, Tanzania.
- 2017 **Oral Presentation Award, 2nd place**
Yale University, Ecology and Evolutionary Biology Graduate Student Symposium. New Haven, CT.
- 2016 **Poster Award, 1st place**
Southern African Society for Systematic Biology 12th Biannual Conference. Bloemfontein, South Africa.
- 2013 **Dr. H. Richard Carlson Scholarship**
Awarded to a fisheries student at the University of Alaska Fairbanks demonstrating motivation, leadership and academic potential.

GRANTS AND FELLOWSHIPS

- 2022 – 2025 **Pollock Conservation Cooperative Research Center** (co-PI with Andrés López) | \$122,912
- 2022 **Alaska EPSCoR Faculty Seed Grant** | \$18,860
- 2021 – 2014 **Bureau of Ocean Energy Management** via the **Alaska Coastal Marine Institute** | \$200,766
- 2018 **Yale Institute for Biospheric Studies**, Doctoral Dissertation Improvement Award | \$5,000
- 2017 **National Science Foundation**, Doctoral Dissertation Improvement Grant | \$21,776
- 2017 **Yale University**, MacMillan International Dissertation Research Fellowship | \$18,000
- 2016 **Yale Department of Ecology and Evolutionary Biology**, Chair's Fund | \$1,000
- 2014 – 2016 **U.S. Agency for International Development**, Research and Innovation Fellow | \$24,000
Co-funded by the NSF Graduate Research Opportunities Worldwide program
- 2016 **Yale Institute for Biospheric Studies**, Doctoral Pilot Award | \$4,000
- 2016 **Yale Department of Ecology and Evolutionary Biology**, Chair's Fund | \$750
- 2015 **The Explorers Club**, Exploration Fund Grant | \$900
- 2013 – 2015 **North Pacific Research Board** | \$53,000
Co-authored with Dr. Gordon Kruse (PI)
- 2013 – 2014 **Bureau of Ocean Energy Management** | \$12,000
Co-authored with Dr. Gordon Kruse (PI). Awarded through the Alaska Coastal Marine Institute.
- 2012 – 2013 **Northern Gulf of Alaska Applied Research Award** | \$5,000
- 2011 – 2014 **National Science Foundation**, IGERT Fellow at the University of Alaska Fairbanks
- 2011 – 2016 **National Science Foundation**, Graduate Research Fellowship Program

CONFERENCE PARTICIPATION

ORAL PRESENTATIONS

- 2021 Ghezelayagh, A., R.C. Harrington, E.D. Burress, M.A. Campbell, J. Buckner, P. Chakrabarty, **J.R. Glass**, W.T. McCraney, C.E. Thacker, M.E. Alfaro, S.T. Friedman, S.A. Price, A. Dornburg, B.C. Faircloth, P.C. Wainwright, T.J. Near. Prolonged morphological expansion of spiny-rayed fishes following the end-Cretaceous. Virtual Evolution Meeting.
- 2020 **J.R. Glass**. Spatial trophic variability and genetic connectivity of important recreational fishery species, giant

- trevally and bluefin trevally, across Seychelles. Seychelles Ocean Science Symposium. Victoria, Seychelles.
- 2019 **J.R. Glass**, R.C. Harrington, B.C. Faircloth, and T.J. Near. Using a novel genomic sequencing method (ultraconserved elements) to address phylogenomic relationships of carangiform fishes. Southern African Society for Systematic Biology 14th Biannual Conference. Johannesburg, South Africa.
- 2018 **J.R. Glass**, R.C. Harrington, B.C. Faircloth, and T.J. Near. Phylogenomics of carangiform evolution using ultraconserved elements. Joint Meeting of Ichthyologists and Herpetologists. Rochester, NY.
- 2014 **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.
- 2013 **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.

POSTER PRESENTATIONS

- 2022 **J.R. Glass**, P.A.H. Westley, T.M. Sutton, K.C. Neumann, and W.A. Larson. Harnessing the power of eDNA as a real-time assessment tool of nearshore Arctic marine communities. Alaska Marine Science Symposium, Anchorage, AK.
- 2018 **J.R. Glass**, S.R. Santos, J.S.K. Kauwe, and T.J. Near. Long live the kingfish: phylogeography of an iconic sportfish, the Giant Trevally (*Caranx ignobilis*). American Fisheries Society Annual Meeting. Atlantic City, NJ.
- 2017 **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 10th Scientific Symposium. Dar es Salaam, Tanzania.
- 2017 **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.
- 2016 **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.
- 2014 **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.
- 2013 **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.
- 2012 **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.

INVITED SEMINARS

- 2021 University of Alaska Fairbanks, Institute of Arctic Biology
- 2020 Brigham Young University, Department of Biology

DEPARTMENTAL TALKS

- 2021 Departmental Seminar, South African Institute for Aquatic Biodiversity

2018 Graduate Student Symposium, Yale Ecology and Evolutionary Biology Department
2017 Departmental Seminar, South African Institute for Aquatic Biodiversity
2017 Graduate Student Symposium, Yale Ecology and Evolutionary Biology Department

WORKSHOPS ORGANIZED

2022 Organizing faculty member for 2nd Annual IndigiData Workshop, Mobridge, SD
2020 Led CV-writing and cover letter workshop, South African Institute for Aquatic Biodiversity
2016 Led multivariate ecology workshop using PRIMER, Seychelles Fishing Authority, Mahé, Seychelles

TEACHING EXPERIENCE

University of Alaska Fairbanks

2021 Instructor, Aquatic Conservation and Management Genetics
2021 Instructor, Fact or Fishin': Case Studies in Fisheries and Marine Sciences

Yale University

2018 Graduate Teaching Fellow, Introduction to Ecology and Evolutionary Biology (Sole-taught weekly sections)
2016 Graduate Teaching Fellow, Ichthyology
2016 Graduate Teaching Fellow, Laboratory for Ichthyology (Sole-designed and sole-taught)
2015 Graduate Teaching Fellow, Introduction to Ecology and Evolutionary Biology (Sole-taught weekly sections)
2015 Graduate Teaching Fellow, Genes and Development (Sole-taught weekly sections)

WORKSHOPS ATTENDED

2022 Raising A Resilient Scientist Series, NIH Office of Intramural Training and Education
2022 Implicit Bias Training, UAF EPSCoR and Title IX Office
2022 LGBTQ SafeZone Training, UAF Nanook Diversity Action Center
2019 Adaptation Genomics, Physalia Courses
2019 Teaching First-Generation Students, Yale Center for Teaching and Learning
2019 Cultural Inclusion in Teaching, Yale Center for Teaching and Learning
2015 Fundamentals of Teaching STEM, Yale Center for Teaching and Learning

WORKING GROUPS

2022 **Member**, Earth BioGenome Project Ad-hoc Working Group: Indigenous Data Sharing Best Practices
2021 – 2022 **Member**, NSF “Evolving Seas” Research Coordination Network (RCN): “Seascape Genomics of North Pacific Forage Fishes”

PROFESSIONAL AND COMMUNITY SERVICE

2022 **Panel Reviewer**, NSF Division of Environmental Biology (DEB)
2022 **Member**, Justice Equity Diversity and Inclusion Committee, UAF
2022 **Genomics Session Co-Chair**, Alaska Chapter of the American Fisheries Society Annual Meeting
2020 – present **Grant Review Committee**, The Explorers Club Discovery Expedition Grants
2014 – present **Journal Peer Reviewer**, Ocean and Coastal Management, Molecular Phylogenetics and Evolution, Marine Ecology Progress Series, Deep Sea Research II
2019 **Judge**, New Haven Science Fair
2014 – 2019 **Mentor**, Women in Science at Yale
2017 – 2018 **Head Graduate Affiliate**, Berkeley College, Yale University
2016 **Judge**, Grahamstown Regional Science Fair, South Africa
2014 – 2015 **Mentor**, New Haven Science Fair
2013 – 2014 **Mentor**, Southeast Alaska Science Fair

2011 – 2014 **Volunteer Tutor**, University of Alaska Southeast

PUBLIC OUTREACH AND SCIENCE COMMUNICATION

2022 **Public Lecture**, Science for Alaska Series | Fairbanks, AK
2020 **Miller Park Zoo**, Junior Zookeeper Program | Bloomington, IL
2019 **Invited Speaker**, University High School, Girls in STEM Club | Normal, IL
2018 – 2019 **Public Lectures**, Yale Peabody Museum of Natural History | New Haven, CT
2014 – 2019 **Volunteer**, Evolution Outreach Group | New Haven, CT
2014 – 2018 **Volunteer**, Johns Hopkins University Center for Talented Youth | New Haven, CT
2017 **Public Lecture**, The Explorers Club | New York, NY
2016 **South Africa National Science Week** | Grahamstown, South Africa
2016 **Community Science Awareness Day** | Grahamstown, South Africa
2015 **Invited Speaker**, Evolutions After School Program, Yale Peabody Museum | New Haven, CT
2014 **Public Lecture**, Islands and Ocean Visitor Center | Homer, AK
2014 **Invited Speaker**, Kodiak High School, Maritime Science and Technology Course | Kodiak, AK
2013 **Volunteer**, Big Brothers Big Sisters of Alaska, University of Alaska Fairbanks CFOS | Juneau, AK

POPULAR PRESS PUBLICATIONS

J.R. Glass. 2014. Alaskan weathervane scallops: shucking socioeconomic and biological unknowns. *Oncorhynchus* Newsletter of the Alaska Chapter, American Fisheries Society, 34(4), 1–6.
Davis, M., J.R. Glass. 2016. Mammoth mystery. *The Explorers Journal*, 94(1), 12–15.

MEDIA COVERAGE

2021 **Hawaii Fishing News**. Magazine Article. “Global DNA Study of Ulua”
2018 **PBS SciTech Now**. Television Episode. “The Explorers Club mystery meat”
2017 **Global Ocean Exploration**. Documentary Film. “Fishing for Science: Giant Trevally”
2017 **Science & Vie Junior**. Magazine Article. “Vous reprendrez bien un peu de mammoth?”
2017 **The Feast**. Podcast. “Excuse me, Sir, but are you going to eat that mammoth?”
2016 **VICE Munchies**. Documentary Film. “Dining on Woolly Mammoth”
2016 **The New York Times**. Newspaper Article. “The Explorers Club Once Served Mammoth at a Meal. Or Did It?”
2016 **The Atlantic**. Magazine Article. “Prehistoric Mystery Meat: It’s What’s for Dinner”
2016 **NPR**. Online Article. “Two Grad Students Use Science to Bust the Dinner Hoax of the Century”
2016 **Science... Sort Of**. Podcast. “Taste for Exploration”

PROFESSIONAL SOCIETIES

American Fisheries Society- Alaska Chapter, International Coral Reef Society, The American Society of Naturalists, The Explorers Club

STUDENTS GRADUATED

Sheena Talma, MSc in Ichthyology, Rhodes University, South Africa, 2021

STUDENTS CURRENTLY ADVISING

Maris Goodwin, MS, Fisheries