

## 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. J. Burt, M. I. Duncan, S. K. 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 Review. Genome of a Giant (Trevally): *Caranx ignobilis*.

## 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 10<sup>th</sup> 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 2<sup>nd</sup> 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