

## 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 – 2021        **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

- Mc Cartney, A.M., Head, M.A., Tsosie, K.S., Sterner, B., **Glass, J.R.**, Paez, S., Geary, J., Hudson, M. In Review.  
Indigenous Peoples and Local Communities as partners in the sequencing of all eukaryotic life for the future of life. npj Biodiversity
- (12) Pickett, B.M., **J.R. Glass**, T. P. Johnson, P.G. Ridge, and J.S.K. Kauwe. 2022. Genome of a Giant (Trevally): *Caranx ignobilis*. Gigabyte 1–16. DOI: 10.46471/gigabyte.67
- (11) W. Holleman, G.G. Gouws, **J.R. Glass**, and B.Q. Mann. 2022. Resurrection of *Lethrinus scoparius* Gilchrist & Thompson, 1908 (Perciformes: Lethrinidae), from South African waters. Zootaxa 5174 (5): 551–567. DOI: 10.11646/zootaxa.5174.5.4
- (10) **Glass, J.R.**, K. B. Belle, G. Berke, N. Bodin, A. J. Burt, M. I. Duncan, S. K. Morgan, P. Pillay, and S. Talma. 2022. Evaluating the feasibility of sustainable seafood labelling programmes in Small Island Developing States: A pilot study of artisanal fisheries in Seychelles. Frontiers in Marine Science 9:931407. DOI: 10.3389/fmars.2022.931407
- (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. Nature Ecology and Evolution (6) 1211–1220. DOI: 10.1038/s41559-022-01801-3
- (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 glossodont*), 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/jofo.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

## 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** | \$29,394
- 2021 – 2024 **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 – present 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 LGBTQIA2+ Ally 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 **Proposal Reviewer**, Genome Canada, Climate-Smart Agriculture and Food Systems Challenge  
2022 **Panel Reviewer**, NSF Division of Environmental Biology (DEB) and Integrative Organismal Systems (IOS)  
2022 **Member**, Justice Equity Diversity and Inclusion Committee, UAF CFOS  
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**, Conservation Genetics Resources, 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), The Explorers Club

#### STUDENTS GRADUATED

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

#### GRADUATE STUDENTS CURRENTLY ADVISING

Sydney Almgren, MS, Fisheries  
 Maris Goodwin, MS, Fisheries  
 Jiwan Zhang, MS, Fisheries

#### UNDERGRADUATE STUDENTS CURRENTLY MENTORING

Jaden Andrew, BS, Fisheries  
 Zoe Schneider, BS, Biology and Wildlife  
 Jennifer Tusten, BS, Marine Science and Limnology