

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

- Glass, J.R.**, R.C. Harrington, P.F. Cowman, B.C. Faircloth, and T.J. Near. In Review. Widespread sympatry in a species-rich clade of marine fishes (Carangoidea). doi: 10.1101/2022.09.26.509594
- (14) Timm, L.E., N. Tucker, A. Rix, S. LaBua, J.A. López, K. Boswell, and **J.R. Glass**. 2023. The untapped potential of seascape genomics in the North Pacific. *Frontiers in Conservation Science* 4:1249551. doi: 10.3389/fcsc.2023.1249551
- (13) Mc Cartney, A.M., K.S. Tsosie, B. Sterner, **J.R. Glass**, S. Paez, J. Geary, M. Hudson, and M. A. Head. 2023. Indigenous Peoples and Local Communities as partners in the sequencing of all eukaryotic life for the future of life. *npj Biodiversity* 2(8). doi: 10.1038/s44185-023-00013-7
- (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. 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, 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 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/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

- 2023 **NSF MRI Track-I:** Acquisition of CyBR: Cyber Infrastructure for Big Data Research Critical for Alaska (co-PI with Arghya Das) | \$910,418
- 2023 **NSF Alaska EPSCoR:** Faculty Travel Grant | \$3,500
- 2023 **Alaska Center for Innovation, Commercialization and Entrepreneurship:** Seed Fund | \$13,520
- 2023 **National Science Foundation:** BRC-BIO Broadening Research Capacity in Biology | \$498,522
- 2023 **Pacific States Marine Fisheries Commission:** Pacific Cod Disaster Relief Fund | \$334,947
- 2022 – 2025 **Pollock Conservation Cooperative Research Center** (co-PI with Andrés López) | \$122,912
- 2022 **NSF 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

- 2023 S. Almgren, J. A. López, and **J.R. Glass**. Population Genomics of Pacific Herring in the Eastern Bering Sea. 30th Alaska Marine Science Symposium, Anchorage, AK.
- 2023 M.R. Goodwin, J.L. Tusten, P.A.H. Westley, W.A. Larson, and **J.R. Glass**. Using eDNA metabarcoding to monitor the impact of climate change on coastal communities in the Gulf of Alaska. 30th Alaska Marine Science Symposium, Anchorage, AK.
- 2022 M.R. Goodwin, P.A.H. Westley, W.A. Larson, and **J.R. Glass**. Harnessing the power of eDNA as a rapid assessment tool of marine communities in Alaska. 27th Annual NSF EPSCoR National Conference. Portland, ME.
- 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. 29th 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

- 2023 NOAA Alaska Fisheries Science Center
- 2023 Utah State University, Department of Biology
- 2021 University of Alaska Fairbanks, Institute of Arctic Biology
- 2021 South African Institute for Aquatic Biodiversity
- 2020 Brigham Young University, Department of Biology

WORKSHOPS ORGANIZED

- 2023 Co-Organizer for 3rd Annual IndigiData Workshop, Bellingham, WA
- 2022 Co-Organizer 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

- 2023 – present Genomics and Bioinformatics
- 2023 – present Fisheries Experiential Learning Internship
- 2021 – present Aquatic Conservation and Management Genetics
- 2021 – present 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

- 2023 Leadership Skills for Engineering and Science Faculty, MIT Professional Education
- 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

- 2023 – present **Editorial Board Member**, npj Biodiversity
- 2023 **Proposal Reviewer**, Graduate Women in Science, National Fellowship Program
- 2022 **Proposal Reviewer**, Genome Canada
- 2022 – present **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
- 2020 – present **Mentor**, The Explorers Club Mentorship Program
- 2014 – present **Journal Peer Reviewer**, Molecular Ecology Resources, Conservation Genetics Resources, Ocean and Coastal Management, Molecular Phylogenetics and Evolution, Marine Ecology Progress Series, Deep Sea Research II, Scientific Reports
- 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

- 2024 **Explorer in Residence**, PONANT Expedition, Alaska, Nature on a Grand Scale | Alaska, USA
- 2023 **Invited Speaker**, Hutchinson High School, Marine Biology Class | Fairbanks, AK
- 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

- 2023 **National Geographic**. Television Episode. “Last of the Giants: Wild Fish.” S2 Episodes 6-7

- 2023 **Discovery Canada.** Television Episode. “Last of the Giants.” S2 Episodes 7–8
- 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
 Rachel Lekanoff, PhD, Fisheries

UNDERGRADUATE STUDENTS CURRENTLY MENTORING

Jaden Andrew, BS, Fisheries
 Rhayne Billings, BS, Biology and Wildlife
 Franchezca Correa, BS, Chemistry
 Emilie Entrikin, BS, Fisheries
 Isabelle Nicolier, BS, Biology and Wildlife
 Zoe Schneider, BS, Biology and Wildlife
 Jennifer Tusten, BS, Fisheries