

Easton R. White

Assistant Professor

Department of Biological Sciences

University of New Hampshire

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Education

2018	Ph.D. in Population Biology	University of California, Davis
2013	B.S. in Biology, Minor Mathematics	Arizona State University
2010	Associate of Science	Scottsdale Community College

Research Interests

Quantitative ecology, coupled natural-human systems, ecosystem management, conservation science, marine ecology, fisheries, protected areas, decision theory, species monitoring, biology education, active learning

Major Awards and Grants

2021	Award for Post-Baccalaureate Student. National Science Foundation. \$29,467.
2021	Charles Darwin Sustainability Fellow. Charles Darwin Research Station.
2021	Elizabeth Fairchild, Easton R. White , and Shane Bradt. Team LuMP: Lumpfish Mapping Project. New Hampshire Sea Grant. \$39,500
2021	Impacts of COVID-19 on seafood. Future of Fish. \$20,000
2020	PI: Effects of a human pandemic on fisheries. Gund Institute for Environment COVID-19 Rapid Research Fund. \$7,100
2019-2025	Merrill Baker-Medard (PI), Easton R. White (co-PI), and Elizabeth Fairchild (co-PI). Socio-Ecological Feedbacks of Marine Protected Areas: Dynamics of Small-Scale Fishing Communities and Inshore Marine Ecosystems. <i>National Science Foundation: CNH2</i> Dynamics of Integrated Socio-Environmental Systems. \$602,320
2018	Graduate Teaching Award, University of California, Davis
2017-2018	Professor for the Future fellow
2014-2017	National Science Foundation Graduate Research Fellow
2013-2014	Canada Fulbright Awardee

Publications (Total citations:749, H-index:13 as of June 9, 2022)

[Google Scholar link](#) [ResearchGate link](#)

*Indicates undergraduate or graduate student mentee, †Indicates equal co-authorship

In the pipeline (preprint and/or in review)

- Merrill Baker-Medard, Katherine Concannon*, Courtney Gantt*, Sierra Moen, **Easton R. White**. Socialscape Ecology: Integrating social factors into spatially-explicit marine conservation planning. In review. ([link](#))

- 1 Benjamin M. Althouse, Brendan Wallace, Brendan Case, Samuel V. Scarpino, Andrew M. Berdahl, **Easton R. White**, and Laurent Hebert-Dufresne. The unintended consequences of inconsistent pandemic control policies. medRxiv. In revision. ([link](#))

Published

- 28 Emily Beasley*, Natalia Aristizabal*, Erika Bueno*, **Easton R. White**. Spatially explicit models predict coffee rust spread in fragmented landscapes. Accepted at *Landscape Ecology* ([link](#))
- 27 **White, Easton R.**, Kalle Parvinen, and Ulf Dieckmann. Environmental variability and phenology evolution: impacts of climate change and spring onset on reproductive timing in a small mammal. *Theoretical Ecology*. ([link](#))
- 26 Ward-Paige, Christine, **Easton R. White**, et al. A framework for mapping and monitoring human-ocean interactions in near real-time during COVID-19 and beyond. *Marine Policy* ([link](#))
- 25 **White, Easton R.**, Jill Levine*, Amanda Moeser, and Julie Sorensen. The Direct and Indirect Effects of a Global Pandemic on US Fishers and Seafood Workers. *PeerJ*. ([link](#))
- 24 †**Easton R. White**, †Zachary A. Schakner, Amber Bellamy, Mridula Srivasanan. Detecting population trends in United States marine mammals. *Conservation Science and Practice*. ([link](#))
- 23 **White, Easton R.**, Merrill Baker-Medard, Valeriia Vakhitova*, Samantha Farquhar, and Tendo Tondrasoa Ramaharitra. 2022. Distant water industrial fishing in developing countries: A case study of Madagascar. *Ocean and Coastal Management* 216: 105925. ([link](#))
- 22 Merrill Baker-Medard, Courtney Gantt*, **Easton R. White**. Classed Conservation: Socio-economic drivers of participation in marine resource management. *Environmental Science and Policy*. ([link](#))
- 21 Christie A. Bahlai, **Easton R. White**, Julia D. Perrone, Sarah Cusser, and Kaitlin Stack Whitney. An algorithm for quantifying and characterizing misleading trajectories in ecological processes. *Ecological Informatics*. ([link](#))
- 20 Geoffrey Osgood, **Easton R. White**, and Julia K. Baum. Effects of climate-change driven gradual and acute temperature changes on shark and ray species. *Journal of Animal Ecology*. ([link](#))
- 19 Joshua S. Stoll, Hannah L. Harrison, Emily De Sousa, Debra Callaway, Melissa Collier, Kelly Harrell, Buck Jones, Jordyn Kastlunger, Emma Kramer, Steve Kurian, M. Alan Lovewell, Sonia Strobel, Tracy Sylvester, Brett Tolley, Andrea Tomlinson, **Easton R. White**, Talia Young and Philip A. Loring. Alternative seafood networks during COVID-19: Implications for resilience and sustainability. *Frontiers in Sustainable Food Systems*. ([link](#))
- 18 **White, Easton R.**, Marissa L. Baskett, and Alan Hastings. Catastrophes, connectivity, and Allee effects in the design of marine reserve networks. *Oikos*. ([link](#))
- 17 Froehlich Halley E., Rebecca Gentry, Sarah E. Lester, Richard S. Cottrell, Gavin Fay, Trevor A. Branch, Jessica A. Gephart, **Easton R. White**, and Julia K. Baum. 2021. Securing a sustainable future for US seafood in the wake of a global crisis. *Marine Policy*. ([link](#))
- 16 **White, Easton R.**, Halley Froehlich, Jessica A. Gephart, Richard S. Cottrell, Trevor Branch, Rahul Agrawal Bejarano, Julia Baum. 2021. Early effects of COVID-19 on US fisheries and seafood consumption. *Fish and Fisheries*. ([link](#))
- 15 †Bruel, Rosalie and †**Easton R. White**. 2021. Sampling requirements and approaches to detect ecosystem shifts. *Ecological Indicators*. ([link](#))

- 14 **White, Easton R.** and Christie A. Bahlai. 2021. Experimenting with the Past to Improve Environmental Monitoring Programs. *Frontiers in Ecology and Evolution*. ([link](#))
- 13 **White, Easton R.** and Laurent Hebert-Dufresne. 2020. State-level variation for initial COVID-19 dynamics in the United States. *PLoSOne*. ([link](#))
- 12 **White, Easton R.** and Alan Hastings. 2020. Seasonality in ecology: Progress and prospects in theory. *Ecological Complexity*. ([link](#))
- 11 **White, Easton R.**,*Kyle Cox, Brett Melbourne, and Alan Hastings. 2019. Ecological management depends strongly on stochasticity: an experimental test. *Proceedings of the National Academy of Sciences*. ([link](#))
- 10 Rodriguez-Caro, Roberto C., Thorsten Wiegand, **Easton R. White**, Ana Sanz-Aguilar, Andres Gimenez, Eva Gracia, and Jose D. Anadon. 2019. A low cost approach to estimate demographic rates using inverse modelling. *Biological Conservation*. ([link](#))
- 9 Fournier, Auriel, **Easton R. White**, and Stephen Heard. 2019. Site-selection bias can drive apparent population declines in long-term studies. *Conservation Biology*. ([link](#))
- 8 **White, Easton R.** 2019. Minimum time required to detect population trends: the need for long-term monitoring programs. *BioScience*. ([link](#))
- 7 **White, Easton R.** and Andrew T. Smith. 2018. The role of spatial structure in the collapse of regional metapopulations. *Ecology* 99(2): 2815-2822. ([link](#))
- 6 **White, Easton R.** Mark C. Myers, Joanna Mills Flemming, and Julia K. Baum. 2015. Shifting elasmobranch community assemblage at Cocos Island - an isolated marine protected area. *Conservation Biology* 29(4): 1186-1197. ([link](#))
- 5 **White, Easton R.** John D. Nagy, and Samuel H. Gruber. 2014. Modeling the population dynamics of lemon sharks. *Biology Direct* 9(1): 1-23. ([link](#))
- 4 Kessel S. T., Chapman D. D., Franks B. R., Gedamke T., Gruber S. H., Newman J. M., **White E. R.** and Perkins R. G. 2014. Predictable temperature regulated residency, movement and migration in a large, highly-mobile marine predator. *Marine Ecology Progress Series* 514. ([link](#))
- 3 Robinson, James P.W., **Easton R. White**, Logan D. Wiwchar, Danielle C. Claar, Justin P. Suraci, Julia K. Baum. 2014. The limitations of diversity metrics in directing marine global marine conservation. *Marine Policy* 48:123-125. ([link](#))
- 2 Gerber, Leah R. and **Easton R. White**. 2014. Two-sex matrix models in assessing population viability: when do male dynamics matter? *Journal of Applied Ecology* 51(1): 270-278. ([link](#))
- 1 Senko, Jesse, **Easton R. White**, Sellina S. Heppell, and Leah R. Gerber. 2014. A comparison of fishery management strategies for mitigating bycatch of vulnerable marine megafauna species. *Animal Conservation* 17(1): 5-18. ([link](#))

Teaching Experience

University of New Hampshire

- 2021 Instructor, Introductory Biology: Ecology, Evolution, and Biodiversity (BIOL 412)
- 2021 Instructor (and course developer) BIOL 806 Data Science with R for the Life Sciences (BIOL 806)
- 2022 Guest Lecturer, Wildlife Population Ecology (NR 460)
- 2022 Guest Lecturer, Biology Capstone Course (BIOL 790, Professor Leslie Curren)
- 2021 Guest Lecturer, Tech Class (TECH 797, Professor Elizabeth Fairchild)
- 2021 Guest Lecturer, Biology Seminar (BIOL 911, Professor Patricia Jarema)
- 2021 Guest Lecturer, MEFB Seminar (MEFB 911, Professor Gregg Moore)
- 2021 Guest Lecturer, NSF GRFP Course
- 2021 Guest Lecturer, Introductory Graduate Seminar (BIOL 911, Professor Jessica Bolker)
- 2021 Guest Lecturer, Quantitative Ecology (NR 713, Professor Rem Moll)

University of Vermont

2019-2020 Instructor, Foundations of Quantitative Reasoning (BIO381, PhD-level).

University of California, Davis

2017-2018 Instructor, Introductory Biology: Ecology and Evolution, Biology Undergraduate Scholars Program (Summer bridge program)

2018 Instructor, Science Education and Outreach.

2018 Instructor, Building your personal baloney detection kit, First Year Seminar program

2015 Teaching Assistant, Introduction to Biology (BIS2B)

Software Carpentry

2014-2019 Instructor for nine two-day workshops in North America (R, shell, and version control)

University of Victoria

2014 Teaching Assistant, Advanced Ecology (BIO470)

Research Experience

2019-2024 PI on coupled socio-ecological systems project focused on Madagascar coral reef fisheries
2014-2018 Graduate Research and Teaching Assistant, University of California, Davis, Advisor: Alan Hastings
2016 Intern, Young Scientist Summer Program, Institute for Applied Systems Analysis, Vienna, Austria
2013-2014 Canada Fulbright Awardee, University of Victoria, Canada, Advisor: Julia Baum
2012-2013 Researcher, Gerber Lab: Marine Population Biology, Arizona State University, Advisor: Leah Gerber
2009-2013 Researcher, SCC/ASU Evolutionary Dynamics Laboratory, Advisor: John Nagy
2011-2012 Intern, Bimini Biological Field Station, Bimini, Bahamas, Supervisor: Samuel Gruber

Selected Presentations

*Indicates mentee

2022 **Easton R. White.** Exploring the world's oceans from your home office. Seacoast Sips of Science, Garrison City Beer works, Dover, New Hampshire.
2022 **Easton R. White.** The effects of extreme events of marine ecosystems and fisheries. School of Marine Sciences and Ocean Engineering, University of New Hampshire.
2022 **Easton R. White.** Modeling socio-ecological dynamics in the face of disturbances: A case study of coral reef fisheries. Benthic Ecology Meeting, Portsmouth, NH.
2022 *Saltzman, J., Graham, J., Wester, J., **White, E.R.**, and Macdonald, C. Sawfish: Social Media as a Tool for Assessment of Public Behavior and Attitudes toward Endangered Species. Benthic Ecology Meeting, Portsmouth, NH.
2022 *Wulfin, S. and **White, E.R.** Modeling cephalopod octopus dynamics in Madagascar. Benthic Ecology Meeting, Portsmouth, NH.
2021 *Saltzman, J., Graham, J., Wester, J., **White, E.R.**, and Macdonald, C. Sawfish: Social Media as a Tool for Assessment of Public Behavior and Attitudes toward Endangered Species. Graduate Research Conference University of New Hampshire.
2022 **Easton R. White.** Ecology, conservation, and sustainability in a variable world. Charles Darwin Research Station, Puerto Ayora, Santa Cruz, Galapagos.
2022 **Easton R. White.** Modeling socio-ecological dynamics in the face of disturbances. Integrated Applied Mathematics. University of New Hampshire.

- 2022 **Easton R. White.** The Quantitative Marine Ecology Lab. Blue Economy Sandpit. University of New Hampshire.
- 2021 **Easton R. White.** Game theory in ecology and evolution. University of Vermont.
- 2021 **Easton R. White.** Alternative data sources for understanding the effects of shock events on seafood in the Gulf of Maine. Regional Association for Research on the Gulf of Maine (RARGOM) .
- 2021 **Easton R. White.** Seafood and fisheries during a global pandemic. GundxChange, Gund Institute for Environment.
- 2020 **Easton R. White.** Ecology, conservation, and sustainability in a variable world. Online, The University of New Hampshire.
- 2020 **Easton R. White.** Careers in STEM: imposter syndrome and winding career paths. Online, Biology Undergraduate Scholars Program, UC Davis.
- 2019 **Easton R. White.** Managing populations in a changing world. Middlebury College, Middlebury, VT.
- 2019 **Easton R. White.** Ecology and conservation in an uncertain world. Stony Brook University, Stony Brook, NY.
- 2019 **Easton R. White.** Site-selection bias and species monitoring programs. Carleton University, Ottawa, Canada.
- 2019 **Easton R. White.** Experimenting with the past to improve species monitoring programs. CSEE Meeting, Fredericton, NB, Canada.
- 2019 **Easton R. White.** Teaching case study: Socio-ecological modeling of coral reef fisheries. National Socio-Environmental Synthesis Center, Annapolis, MD.
- 2019 **Easton R. White.** Interdisciplinary summer bridge programs to improve student outcomes. Biology Education Gordon Conference, Bates College, Lewiston, ME.
- 2019 **Easton R. White.** Managing populations in a changing world. Biology Department Seminar Series, University of Vermont, Burlington, VT.
- 2019 *Rappel, Charlotte and **Easton R. White.** Spatial dynamics and extinction risk of a small mammal population. University of California Undergraduate Research Conference.
- 2019 *Kono, Erica, *Schweibold, Reece, and **Easton R. White.** Sex-biased dispersal in a model invasive species. University of California Undergraduate Research Conference.
- 2018 **Easton R. White.** Designing marine protected areas for catastrophic events. Canadian Society for Ecology and Evolution, University of Guelph, Guelph, ON.
- 2018 **Easton R. White.** Minimum time required to detect populations trends. Ecological Society of America Annual Meeting, New Orleans, LA.
- 2016 **Easton R. White.** Metapopulation dynamics and extinction in the American pika. Mathematics of Planet Earth group, Society for Industrial and Applied Math, Philadelphia, PA.
- 2016 **Easton R. White.** Evolution of reproductive timing in variable environments. Young Scientist Summer Program. International Institute for Applied Systems Analysis, Vienna, Austria.
- 2016 **Easton R. White.** The inevitable partial collapse of an American pika metapopulation. Ecological Society of America. Baltimore, Maryland.

Mentoring

Primary Graduate Advisor

University of New Hampshire

Spring 2022 - Present

Katie Perry

Fall 2021 - Present	Sophie Wulfing, Masters Student
Summer 2021 - Present	Wilton Burns, Phd Student
Summer 2021 - Present	Julia Saltzman, Masters Student

Graduate Thesis Committee

University of New Hampshire

Spring 2022 - Summer 2022	Kyle Teller
Fall 2021 - Present	Nathan Hermann
Fall 2021 - Present	Glenna Dyson-Roberts
Fall 2021 - Present	Mary Kate Munley
Summer 2021 - Fall 2021	Brandon O'Brian
Spring 2021 - Present	Tiffay Winter
Spring 2021 - Present	Molly Erickson
Spring 2021 - Present	Hanna Mogensen
Fall 2020 - Present	Caitlin Shanahan

Undergraduates mentees

University of New Hampshire

Fall 2021 - Present	Isabel Beaulieu
Fall 2021 - Present	Ahilya Kadba
Fall 2021 - Present	Liam Morrison
Fall 2021 - Present	Drew Kelley
Fall 2021 - Present	Matthew Walter

Middlebury College (in collaboration with Dr. Merrill Baker-Médard)

Spring 2021 - Summer 2021	Jiaqi Li, Contributed to research project
Spring 2020 - Summer 2021	Katherine Concannon, Independent Research Project
Spring 2020 - Summer 2021	Valeriia Vakhitova, Contributed to research project and publication
Spring 2020 - Summer 2021	Courtney Gantt, Contributed to research project and publication

University of Vermont

Spring 2021 - Present	Jill Levine, Independent Research Project
Summer 2020 - Spring 2021	Rose Pfeiffer, Independent Research Project
Summer 2020 - Fall 2020	Caroline Guilfoyle, Contributed to research project
Fall 2019 - Summer 2020	Amanda Jones, Independent Research Project

University of California, Davis

Summer 2018 - Spring 2019	Erica Kono, Independent Research Project
Summer 2018 - Spring 2019	Reece Schweibold, Independent Research Project
Summer 2018 - Spring 2019	Charlotte Rappel, Independent Research Project
Spring 2018 - Summer 2018	Ivan Beas, Honors Thesis
Spring 2017 - Summer 2018	Kyle Cox, Contributed to research project and publication
Winter 2016 - Summer 2016	Jeni Boyer, Independent Research Project
Winter 2016 - Summer 2016	Annie Maliguine, Independent Research Project

University of Victoria

Fall 2013 - Winter 2014	Mitra Nikoo, Contributed to research project
Winter 2014	Jessica Holden, Contributed to research project
Winter 2014	Michael Sullivan, Contributed to research project

Scottsdale Community College

Spring 2012 - Spring 2013
Spring 2012 - Spring 2013

Andrew Nemecek, Independent Research Project
Sabrina Jones, Independent Research Project

Reviewer

Aquaculture, Bulletin of Mathematical Biology, Biological Conservation, Communications Biology, Conservation Biology, Ecography, Ecological Complexity, Ecological Modelling, Ecology, Ecology Letters, Environmental Monitoring and Assessment, Fish and Fisheries, Global Food Security, International Journal of Gastronomy and Food Science, Journal of Applied Ecology, Journal of Cross-Cultural Psychology, Journal of Marine Systems, Nature Communications, NOAA Grant Review, NSF GRFP program, PeerJ, PLoS ONE, Proceedings of the National Academy of Sciences, Science, Theoretical Ecology, Trends in Ecology and Evolution

Professional Memberships

American Association for the Advancement of Science (AAAS)
Canadian Society for Ecology and Evolution (CSEE)
Ecological Society of America (ESA)
Society for Industrial and Applied Mathematics (SIAM)
Society for Mathematical Biology (SMB)
Society for the Advancement of Biology Education Research (SABER)