

Easton R. White

Assistant Professor

Department of Biological Sciences

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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

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

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

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

In the pipeline (preprint and/or in review)

- 8 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](#))
- 7 †**Easton R. White**, †Zachary A. Schakner, Amber Bellamy, Mridula Srivasanan. Detecting population trends in United States marine mammals. In review.
- 6 Merrill Baker-Medard, Courtney Gantt*, **Easton R. White**. Classed Conservation: Socio-economic drivers of participation in marine resource management. In review.
- 5 Emily Beasley*, Natalia Aristizabal*, Erika Bueno*, **Easton R. White**. Spatially explicit models predict coffee rust spread in fragmented landscapes. ([link](#))

- 4 Christine A. Ward-Paige, **Easton R. White**, Elizabeth MP Madin, and 25 others. A framework for mapping and monitoring human-ocean interactions in near real-time during COVID-19 and beyond. *OSF Preprints*. In review at *Marine Policy*. ([link](#))
- 3 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](#))
- 2 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. *bioRxiv*. In review. ([link](#))
- 1 **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. *PeerJ Preprints*. In revision at *Theoretical Ecology*. ([link](#))

Published

- 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. ([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](#))
 - In the top 5% Altmetric scores of all articles ever tracked
 - Picked up by 9 news outlets
 - [Story Map of paper](#)
- 18 **White, Easton R.**, Marissa L. Baskett, and Alan Hastings. Catastrophes, connectivity, and Allee effects in the design of marine reserve networks. In press at *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. In press at *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](#))
 - In the top 1% Altmetric scores of all articles ever tracked
 - Picked up by over 200 news outlets
 - Referenced in a [US Congressional Report](#)
- 15 [†]Bruel, Rosalie and [†]**Easton R. White**. 2021. Sampling requirements and approaches to detect ecosystem shifts. In press at *Ecological Indicators*. ([link](#))
- 14 **White, Easton R.** and Christie A. Bahlai. 2021. Experimenting with the Past to Improve Environmental Monitoring Programs. In press at *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. In press at *PLoSOne*. ([link](#))
 - In the top 1% Altmetric scores of all articles ever tracked
 - Picked up by 12 news outlets
- 12 **White, Easton R.** and Alan Hastings. 2020. Seasonality in ecology: Progress and prospects in theory. In press at *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](#))

- In the top 3% Altmetric scores of all articles ever tracked
 - Picked up by 4 news outlets
- 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](#))
 - In the top 3% Altmetric scores of all articles ever tracked
 - Selected as Editor's Choice Article and featured on BioScience Podcast
 - 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](#))
 - In the top 3% Altmetric scores of all articles ever tracked
 - Referenced in FAO Policy documents
 - 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 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 undergraduate mentee

2021	Seafood and fisheries during a global pandemic. GundxChange, Gund Institute for Environment.
2021	The effect of COVID-19 on US seafood and fisheries. Online, University of Vermont COVID-19 Research Symposium.
2021	The effect of COVID-19 on New Hampshire seafood and fisheries. Online, New Hampshire Shellfish Farmers Initiative.
2020	Ecology, conservation, and sustainability in a variable world. Online, The University of New Hampshire.
2020	Careers in STEM: imposter syndrome and winding career paths. Online, Biology Undergraduate Scholars Program, UC Davis.
2019	Managing populations in a changing world. Middlebury College, Middlebury, VT.
2019	Ecology and conservation in an uncertain world. Stony Brook University, Stony Brook, NY.
2019	Site-selection bias and species monitoring programs. Carleton University, Ottawa, Canada.
2019	Experimenting with the past to improve species monitoring programs. CSEE Meeting, Fredericton, NB, Canada.
2019	Teaching case study: Socio-ecological modeling of coral reef fisheries. National Socio-Environmental Synthesis Center, Annapolis, MD.
2019	Interdisciplinary summer bridge programs to improve student outcomes. Biology Education Gordon Conference, Bates College, Lewiston, ME.
2019	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	Designing marine protected areas for catastrophic events. Canadian Society for Ecology and Evolution, University of Guelph, Guelph, ON.
2018	Minimum time required to detect populations trends. Ecological Society of America Annual Meeting, New Orleans, LA.
2016	Metapopulation dynamics and extinction in the American pika. Mathematics of Planet Earth group, Society for Industrial and Applied Math, Philadelphia, PA.
2016	Evolution of reproductive timing in variable environments. Young Scientist Summer Program. International Institute for Applied Systems Analysis, Vienna, Austria.

2016	The inevitable partial collapse of an American pika metapopulation. Ecological Society of America. Baltimore, Maryland.
2014	Shifting elasmobranch community assemblage at a marine protected area. Genomes to Biomes Meeting, Canadian Society for Ecology and Evolution, Montreal, Quebec, Canada.

Mentoring

University of New Hampshire

Summer 2021 - Present	Julia Saltzman, Primary Advisor
Spring 2021 - Present	Molly Erickson, Thesis Committee Member
Spring 2021 - Present	Hanna Mogensen, Thesis Committee Member
Fall 2020 - Present	Caitlin Shanahan, Thesis Committee Member

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

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

University of Vermont

Spring 2021 - Present	Jill Levine, Independent Research Project
Summer 2020 - Present	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	Andrew Nemecek, Independent Research Project
Spring 2012 - Spring 2013	Sabrina Jones, Independent Research Project

Service

2018-	Leadership Team, National Science Foundation PhD traineeship, University of Vermont
2018-	Instructor, computational skills workshops, Software Carpentry
2019	Organizer, Research Derby Event, University of Vermont
2016-2018	Founder, Population Biology Diversity Committee, University of California, Davis
2017-2018	Instructor, Skype a Scientist program, University of California, Davis
2015	Volunteer tutor, STEM Cafe , University of California, Davis
2012-2014	Cofounder and educator, Mathematics without Boundaries, Arizona State University

Additional Academic Training

2020	Teaching Effectively Online Course, University of Vermont
2017-2018	Professors for the Future Program, University of California, Davis
2018	University Ethics and Professionalism
2017	Seminar on College Teaching
2017	Center for Educational Excellence Workshop Series
2014	Software Carpentry Instructor Course
2014	Mathematics Teaching Workshop, University of Victoria

Other Funding and Awards

2014-2019	Various Software Carpentry travel awards
2019	Canadian Institute for Ecology and Evolution honorarium (\$1,200)
2018	UC Davis Graduate Teaching Award (\$500)
2018	UC Davis Graduate Studies Travel Grant (\$1,000)
2016	SIAM Travel Grant (\$650)
2016	Population Biology Research Grant (\$1,666)
2016	National Academy of Science Travel Grant (\$4,400)
2015	Mathematical Biosciences Institute travel grant (\$750)
2014	NSF Travel Award (\$1,700)

Reviewer

Bulletin of Mathematical Biology, Biological Conservation, Communications Biology, Conservation Biology, Ecography, Ecological Complexity, Ecological Modelling, Ecology, Ecology Letters, Environmental Monitoring and Assessment, International Journal of Gastronomy and Food Science, Journal of Applied Ecology, Journal of Marine Systems, 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)