

Andrew Villeneuve

PHD STUDENT

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Andrew is a marine ecologist with interests in global change across levels of ecological organization. He is dedicated to working on applied questions in the face of climate and biodiversity crises.

Education

University of New Hampshire

Durham

PhD Student

2022 - 2026

University of Massachusetts Amherst

Amherst Center

MASTER OF SCIENCE

2018 - 2021

Bowdoin College

Brunswick

BACHELOR OF ARTS

2012 - 2016

Publications

Villeneuve, A.., & White, ER. (2024). Predicting organismal response to marine heatwaves using mechanistic thermal landscape models. *EcoEvoRxiv*.

Sasaki, M., Barley, JM., Gignoux-Wolfsohn, S., Hays, CG., Kelly, MW., & ... (2022). Greater evolutionary divergence of thermal limits within marine than terrestrial species. *Nature Climate Change*. 12 (12), 1175-1180

Barley, JM., Cheng, BS., Sasaki, M., Gignoux-Wolfsohn, S., Hays, CG., & ... (2021). Limited plasticity in thermally tolerant ectotherm populations: evidence for a trade-off. *Proceedings of the Royal Society B*. 288 (1958), 20210765

Villeneuve, A.., Komoroske, LM., & Cheng, BS. (2021). Environment and phenology shape local adaptation in thermal performance. *Proceedings of the Royal Society B*. 288 (1955), 20210741

Villeneuve, A.., Komoroske, LM., & Cheng, BS. (2021). Diminished warming tolerance and plasticity in low-latitude populations of a marine gastropod. *Conservation Physiology*. 9 (1), coab039

Villeneuve, A.., Thornhill, I., & Eales, J. (2019). Upstream migration and altitudinal distribution patterns of Nereina punctulata (Gastropoda: Neritidae) in Dominica, West Indies. *Aquatic ecology*. 53 (2), 205-215

Villeneuve, A.. (2017). Habitat selection and population density of the world's smallest chameleon, Brookesia micra, on Nosy Hara, Madagascar. *Herpetological Conservation and Biology*. 12 (2), 334-341

Wheelwright, NT., Taylor, LU., West, BM., Voss, ER., Berzins, SY., & ... (2017). Pupation site selection and enemy avoidance in the introduced pine sawfly (Diprion similis). *Northeastern Naturalist*. 24 (sp7)

Villeneuve, A.., & White, ER. (NA). Predicting organismal response to marine heatwaves using dynamic thermal tolerance landscape models. *The Journal of animal ecology*.

Selected Work and Research Experience

Department of Biological Sciences, University of New Hampshire

Durham, NH

PHD STUDENT

2022 - Present

NOMAN Fisher besimpacts of heatwaves on marine invertebrate populations using an exposure magnitude-duration framework Silver Spring, MD

KNAUSS MARINE POLICY FELLOW

2021-2022

I worked with the Office of the Assistant Administrator for Fisheries on high-level science management and policy. I worked on improving
the NOAA instutional repository, wrote fisheries survey communications materials, and create a bibliometric analysis of NOAA Fisheries publications. I supported NOAA Arctic policy by working on incorporating indigenous traditional ecological knowledge into the US position in a
multilateral agreement.

Department of Environmental Conservation, University of Massachusetts Amherst

Amherst, MA

MASTER'S STUDENT 2018-2020

I conducted research on the growth and survival of locally adapted populations of the Oyster Drill (Urosalpinx cinerea) collected from sites along
the latitudinal gradient on the Pacific and Atlantic coasts of the US. I mentored an undergraduate research intern and their independent project
Hurriag for the Foliag Gradient and Marine Science program. I was a teaching assistant for Marine Ecology and Introduction to Ecology. ME

RESEARCH ASSISTANT 2018

• I assisted growth rate research on bottom culture and ear-hung scallop aquaculture in the Gulf of Maine. Operated outboard motorboats in operation wattaced itions. I mentored two students from the Women of the Sea Program on their independent research projects ie, Dominical Company of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on their independent research projects in the Women of the Sea Program on the Women of the Women of the Women of the Women

AQUATIC ECOLOGIST 2017

• Directed field season research for long-term stream monitoring project using macroinvertebrate biotic indices and tracked migration patterns of a freshwater snail. One published paper as product. I instructed high school students in field ecology methodology and directed data collection

Smithsonian National Zoo Washington, DC

CONSERVATION INTERN 2017

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• Analyed images and data on reef organism growth under ocean acidification conditions. Field processed photographic and genetic samples **The Widdlemest Society** an expedition in Curação. I participated in two submersible dives to collect settlement plates.

San Francisco, CA

WILDERNESS TECHNICIAN 20.

I completed a wilderness area assessment of Stanislaus and Eldorado National Forests using GPS tablets and ArcGIS. Performed tasks independently in remote mountain areas. I recommended the outlines of a new wilderness area based on observed human impacts and natural

Bowdoin Science Station

Kent Island, NB, Canada

KENT ISLAND FELLOW 2014

Darting Marine Station, University of Maineent strength on intertidal invertebrate biodiversity.

Walpole, ME

Marine Science Intern 201

Cape Exception in Situation the Drake Passage of species diversity focusing on corals with a master's student.

Deep Creek, The Bahamas

LIONFISH AND AQUACULTURE INTERN

2012

• I maintained open ocean aquaculture cage with juvenile Cobia, involved daily SCUBA diving. I conducted patch reef surveys of fish diversity and lionfish morphological data. REEF fish surveyor certified.

Trainings and Field Schools

Emerging topics in coastal marine ecosystems

2023

University of Cádiz, Spain European Marine Research Network

พองหราชคุวที่เการแกดยาย of Developing indigenous Collaboration in Arctic Observing Networks

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Virtual Kawerak, Inc.

Bowdoin for a prince Science Semester nowledge for application within the Central Arctic Ocean Fishing Agreement

2015

Brunswick, ME Bowdoin College

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2015

Taolagnaro, Madagascar

School for International Training

• Study abroad semester, taught in French

Grants and Fellowships

New Hampshire Sea Grant

NEW HAMPSHIRE SEA GRANT GRADUATE FELLOWSHIP, \$19,510

202.

University of New Hampshire

School of Marine Sciences and Oceanography Graduate Research Fund, \$2,010

2023

University of New Hampshire	
STUDENT TEACHING ASSISTANT SUMMER FELLOWSHIP, \$5,000	2023
National Sea Grant	
2021 JOHN A. KNAUSS MARINE POLICY FELLOWSHIP	2020
PADI Foundation	
PADI FOUNDATION GRANT, \$3,141	2019
American Malacological Society	
Melbourne R. Carriker Student Research Awards in Malacology, \$950	2019
Environmental Conservation Graduate Council, University of Massachusetts Amherst	
Treasurer	2019
National Science Foundation Graduate Research Fellowship Program	
HONORABLE MENTION	2019
Bowdoin Science Station	
KENT ISLAND STUDENT RESEARCH FELLOWSHIP	2014
Bowdoin College	
Bowdoin Faculty Scholar	2012

Service_

- Ecological Forecasting Initiative Student Association (EFISA) Co-chair, 2024-2026.
- Journal Referee
 - Aquatic Ecology
 - Ecography
 - Journal of Molluscan Studies
 - Ecology

Skills____

FIELD AND RESEARCH

- Have used and trained others on ecological research methods, including transects, quadrats, water quality, species identification (highly proficient in rocky coast Atlantic and Caribbean), habitat classification, microscope and microphotography use, and general photography.
- Competent SCUBA diver and snorkeler. 100+ Dives in the Caribbean, Gulf of Maine, and tropical Pacific. PADI
 Rescue Diver. ~50 dives for scientific purposes (transect, REEF surveys, aquaculture farms). ~15 coldwater
 dives (Gulf of Maine, freshwater)
- Comfortable **boating skills** in the Caribbean, Chesapeake Bay, and Gulf of Maine. Small craft operation (up to 35') and basic maintenance experience. Trailering experience. State of Maine boating license
- Experience with animal husbandry and aquatic plumbing. System experience ranges from large open-water aquaculture systems to recirculating seawater systems to tropical reef systems.
- Trained Wilderness First Responder. Certified August 2013, recertified June 2018. Wilderness Medical Associates. Experience working in isolated field conditions (e.g. Madagascar, Bay of Fundy, Dominica).
- Advanced French reading, writing, and comprehension. CEFR level B2.

ORGANIZATIONAL, ANALYTICAL AND COMPUTER SKILLS

- Experienced with R programming for data management and frequentist and Bayesian statistical analysis. Extensive use throughout graduate career. RMarkdown, Quarto, and GitHub repository experience.
- Time management, distance learning, and collaboration applications usage includes Asana, Slack, Zoom, and Google Suite.
- Website design in Weebly, Google Sites, and Quarto.
- Meeting facilitation throughout Knauss fellowship, especially as a member of IARPC secretariat and EFISA co-chair.

References___

• Easton White, PhD Advisor, easton.white@unh.edu

Brian Cheng, Master's Advisor, bso	cheng@umass.edu	
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