

Chad Palmer

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Research Interest Brief

My research integrates empirical field studies, Bayesian modeling, and stakeholder engagement to examine the population and community dynamics of ecosystem engineers, human–wildlife interactions, and conservation decision-making. I have developed innovative decision-support tools, including resource management games that capture “played preferences,” bridging ecological theory with applied governance and restoration.

Teaching Statement Brief

I emphasize discovery-based learning, guiding students through problem-solving processes that foster critical thinking and independence, and I integrate non-traditional teaching modes to make ecological and quantitative concepts accessible and engaging. I am prepared to teach courses in ecosystem engineers, population modeling, statistics for conservation, data visualization, and science philosophy.

Education

University of Florida

Expected December 2025

Doctor of Philosophy: Interdisciplinary Ecology 4.0 GPA

Gainesville, FL

- Camp Lab: Fisheries and Aquaculture Governance
- Concentration in Wildlife Ecology and Conservation
- Dissertation: Density Dependence Among Ecosystem Engineers at Varying Scales: Case Studies in Reef-Building Oysters
 - Chapter 1: Conducted a systematic review of scientific literature to provide previous evidence for strong positive density-dependent dynamics in oyster fisheries and show how understanding of these dynamics has evolved over time
 - Chapter 2: Utilized an empirical field experiment with Bayesian analysis methods to determine presence of positive density-dependent dynamics among oyster recruitment at multiple spatial and density scales
 - Chapter 3: Utilized an empirical field experiment to test two different limestone types for oyster settlement preferences against a control for use in restoration.

University of Florida

December 2021

Master of Science: Forest Resources and Conservation 4.0 GPA

Gainesville, FL

- Valle Lab: Decision Support Tools and Bayesian Statistics
- Camp Lab: Fisheries and Aquaculture Governance
- Concentration in Public Policy and Administration
- Thesis: Simulation Games for Adaptive Management of Eastern Oysters by Industry Professionals
 - Chapter 1: Conducted semi-structured interviews using a snowball sampling method of key oyster fishery stakeholders to explore potential differences in perceptions of key issues as a potential source for mistrust
 - Chapter 2: Created an oyster fishery management video game using the input of stakeholders and conducted playtests with stakeholders to determine whether the game had educational impact and whether gameplay could inform management preferences

Arizona State University 3.78 GPA
Bachelor of Arts: Theater
Tempe, AZ
• Minor in Video Game Design

May 2018

Publications

Palmer, C. R., Camp, E.V., et al. (In Preparation) Comparing Different Limestone Formations for the Restoration of Florida Oyster Reefs

Camp, E. V., Pine, W., Casola, W. R., Benjamin, E. D., **Palmer, C. R.**, Klizentyte, K., & Lorenzen, K. (in review). Implications of depensation on oyster recruitment, population collapse, restoration, and sustainable fisheries management. *Fisheries Research*.

Palmer, C. R., Camp, E.V., et al. (2025) Positive density-dependent population dynamics in reef-building oysters: a review of the evidence and empirical findings, *University of Florida Theses and Dissertations*, <https://ufdc.ufl.edu/ufe0058402/00001>

Palmer, C. R., Valle, D., et al. (2024). Inclusive simulation game development to enhance Florida research and management: Cedar Key oyster fishery. *Environmental Modelling & Software*, 171, 105885. <https://doi.org/10.1016/j.envsoft.2023.105885>

Palmer, C. R., Valle, D., et al. (2021) Studying buy-in for fishery management through the inclusion of stakeholders in the development of simulation games for natural resource management research, *University of Florida Theses and Dissertations*, <https://ufdc.ufl.edu/ufe0058402/00001>

Work Experience

New Mexico State University, Las Cruces, NM February 2026 to Present
Post-Doctoral Researcher, Lawson and Pregler Labs

University of Florida, Gainesville, FL August 2025 to February 2026
Data Collection, Boater Intercept Surveys

University of Florida, Gainesville, FL August 2021 to December 2021
Teaching Assistant, Bayesian Statistics

University of Florida, Gainesville, FL August 2019 to May 2021
Teaching Assistant, Introduction to Statistics

Icy Strait Pointe, Hoonah, AK May 2016 to August 2019 and May 2022 to September 2022
Citizen Science Leader

Kelly Educational Staffing, Hartford, CT/Gainesville, FL September 2018 to December 2025
Substitute Teacher

United States Forest Service, Hoonah, AK May 2018 to September 2018
Community Outreach Coordinator

Presentations

Applying Population Ecology to Fisheries Management Guest Lecture
Guest lecture for Population Ecology, University of Florida November 2025

Unique Intraspecific Interactions Arising from Ecosystem Engineering School of Natural Resources and the Environment Seminar	Seminar Lecture October 2025
Testing for Positive Density-Dependent Recruitment at Multiple Scales Among Reef-Building Oysters in Cedar Key, FL American Fisheries Society Symposium	Oral Presentation August 2025
Comparing Different Limestone Formations for the Restoration of Florida Oyster Reefs Florida American Fisheries Society Symposium, Awarded Best Student Presentation	Oral Presentation May 2025
Positive Density Dependence at Multiple Scales Among Reef-Building Oysters North Florida Marine Science Symposium	Poster Presentation January 2025
Positive Density Dependence: Mechanisms and Impacts Guest lecture for Quantitative Wildlife Ecology, University of Florida	Guest Lecture December 2024
Low Likelihood of Net-Benefit from the Exploitation of Ecosystem Engineers Florida American Fisheries Society Symposium	Oral Presentation May 2024
Evidence for Positive Density Dependence Among Ecosystem Engineers Florida American Fisheries Society Symposium	Oral Presentation May 2023
Differing Outcomes of State Management Strategies for Eastern Oyster Fisheries School of Natural Resources and the Environment Symposium	Poster Presentation April 2023
Studying Resource Management Buy-In and Preferences through Simulation Games Graduate Student Gulf of Mexico Science Symposium, Awarded Best Student Presentation	Oral Presentation March 2022
Simulation Games for the Adaptive Management of Oysters by Industry Professionals Forest Fisheries and Geomatic Science Symposium	Oral Presentation March 2021

Software Products

Oyster Fishery Game: <https://chadpalmer-ufl.shinyapps.io/RevisedApp/>

Guana Tolomato Matanzas National Research Reserve Data Visualization App
<https://gtmnerr.shinyapps.io/Dashboard-dev/>

Multistate Governance Comparison for Eastern Oysters
<https://chadpalmer-ufl.shinyapps.io/MultistateAnalysisApp/>

Outreach

Engineering Florida Shorelines November 2025
Led a workshop for High School students at the University of Florida where students were educated about ecosystem engineers, taught their importance for maintaining biodiversity and ecosystem function, led on a field walk where they observed ecosystem engineering, and performed a lab experiment.

Ecosystem Engineer 7th and 9th grade curriculum supplementation October 2024 to Present
Worked with teachers in the Alachua County School District and the University of Florida teaching lab to bring education about ecosystem engineers into public school classrooms

Guana Tolomato Matanzas National Research Reserve
Data Visualization App

February 2024 to March 2025

Worked with University of Florida faculty, reserve researchers, and local stakeholders to develop an app that visualized 12 years of water quality, algal bloom, and shellfish data

“Saving Anastasia” Promoting conservation of Anastasia State Park October 2024 to December 2024

Worked with other University of Florida students and opponents of the Florida Great Outdoors Initiative to create a public facing website exploring the ecological and cultural importance of Anastasia State Park to promote conservation and non-development of the area.

Cedar Key Community Action Board

January 2022 to May 2022

Worked with University of Florida Faculty, the Florida Fish and Wildlife Conservation Commission, local oystermen, and other stakeholders to explore alternative management strategies for oysters in Cedar Key, FL

Science Fair Judge

February 2019

Worked as a judge for a state-level science fair for High School students hosted by the University of Florida

“Wing It! An exploration of bird wings from ocean to mountaintop”

June 2018 to September 2018

Worked with the United States Forest Service and Hoonah City School District to develop a program for children exploring how the morphology of wings among local avian species shifted between marine, forest, and alpine landscapes

Affiliations

University of Florida Forestry Graduate Student Organization

January 2020 to May 2022

Communications Officer

Certifications

- PADI Scuba
- Class C Commercial Driver License
- FAA 107 Unmanned Aerial Systems License

Professional References

Edward Camp, Doctoral Advisor/Lab Leader

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Miguel Acevedo, Professor/Committee Member

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Mathew Leibold, Professor/Committee Member

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Geraldine Klarenberg, Project Supervisor

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Andrew Altieri, Professor/Collaborator

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