

Noah Brady

PH.D CANDIDATE

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Education

PhD Candidate, Department of Ecology and Evolutionary Biology

ROBERT REED

Cornell University

August 2018–May 2024

Bachelor of Arts in Biology

EMILY HEFFERNAN

New College of Florida

August 2013–May 2017

- Honors thesis: “Conservation Genetics of the Endangered Dakota Skippper”

Research

Graduate Research Assistant

ROBERT REED

Cornell University

August 2019–August 2021

- Developed transposase-based transgenic insertion method for *Junonia coenia*.
- Quantified color pattern plasticity in *Junonia coenia*, identified associated loci with GWAS.
- Validated gene function with CRISPR/Cas9 mosaic deletions.
- Developed tissue culture experiment of larval and pupal wings.
- Analyzed large transcriptomic datasets for differential expression.

Dakota Skipper Genetics Project, Research Assistant

HEFFERNAN LAB

New College of Florida

January 2015–May 2017

- Carried out a population genetics analysis of the endangered Dakota skipper butterfly to inform conservation policy.
- Screened threatened butterfly species for *Wolbachia* infection.

Teaching

Introduction to Evolution and Diversity Teaching Assistant

BIOEE1780

Cornell University

August 2018–May 2019

- Taught three weekly discussion/lab sections.

Cellular and Developmental Biology

BIOMG1350

Cornell University

August 2021–December 2021

- Taught three weekly discussion/lab sections.

Service

Department Diversity Equity Inclusion and Justice committee

DEPT. OF ECOLOGY & EVOLUTIONARY BIOLOGY

Cornell University

August 2020–present

- Developed guidelines for equitable hiring of undergraduates, post-docs, and faculty

Outreach

Co-leader, Cornell Diversity Preview Weekend

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Cornell University

September 2019–September 2021

- Planned logistics of three virtual recruitment events for URM undergraduates interested in graduate school.
- Served as a peer mentor to a DPW participant during the Fall 2020 semester.
- Led weekly meetings of co-leaders

Graduate mentor

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Cornell University

January 2020–May 2022

- Mentored two Cornell undergraduates in developing research projects
- Met with mentees weekly, taught fundamental lab techniques and data analysis

Talks

Oral Presentations:

- **Brady, N., van der Burg, K., Bellido, Z., Reed, R. (2023). "How Does Evolution Tune Seasonal Color Patterns in Butterflies". Cornell Evo Day Symposium, Ithaca, NY.
- **Brady, N., van der Burg, K., Bellido, Z., Reed, R. (2022). The Genomics of Color Pattern Plasticity in *Junonia coenia* Butterflies. Cornell EEB December Symposium, Ithaca, NY.
- **Brady, N., van der Burg, K., Bellido, Z., Reed, R. (2022). The Genomics of Color Pattern Plasticity in *Junonia coenia* Butterflies. Evolution 2022, Cleveland, OH.
- **Brady, N. (2018). The Genetic Basis of Eyespot Plasticity. Cornell Department of Ecology and Evolutionary Biology Winter Symposium, Ithaca, NY.

Posters:

- **Brady, N. (2017). Conservation Genetics of a Threatened Butterfly (*Hesperia dacotae*). BioFlorida Florida Biotech Expo, Sarasota, FL.

Funding

Grants

- Graduate Student Research Fund, Cornell University (\$4000)
- Graduate Research Travel Grant (\$2000)