

# Noah Kenneth Brady

PH.D CANDIDATE

Department of Ecology and Evolutionary Biology, Cornell University  
219 796 3684 | [nkb53@cornell.edu](mailto:nkb53@cornell.edu)

website: [noahkbrady.github.io](https://noahkbrady.github.io) | [github](https://github.com/noahkbrady): noahkbrady | [X](https://twitter.com/Noahkbrady): Noahkbrady

## Education

### PhD Candidate, Department of Ecology and Evolutionary Biology

ROBERT REED

### Bachelor of Arts in Biology

EMILY HEFFERNAN

Honors thesis: "Conservation Genetics of the Endangered Dakota Skippper"

*Cornell University*

*August 2018–present*

*New College of Florida*

*August 2013–May 2017*

## Publications

- Heffernan, E. V., Barkdull, M., **Brady, Noah K.** (2024). Microsatellites for butterfly conservation: historical challenges, current relevance, and a guide to implementation. <https://doi.org/10.3389/fevo.2024.1344065> *Frontiers in Ecology and Evolution*.
- Chatterjee Martik, Yu Xin Y., **Brady Noah K.**, Hatto Gabriel C., Reed Robert D. (2024) mirror determines the far posterior domain in butterfly wings. <https://doi.org/10.7554/eLife.96904.1> *eLife* 13:RP96904
- Richard A. Fandino, **Noah K. Brady**, Martik Chatterjee, Jeanne M. C. McDonald, Luca Livraghi, Karin R. L. van der Burg, Anyi Mazo-Vargas, Eirene Markenscoff-Papadimitriou, Robert D. Reed (2024) The ivory lnc RNA regulates seasonal color patterns in buckeye butterflies. [bioRxiv 2024.02.09.579733](https://doi.org/10.1101/2024.02.09.579733); doi: <https://doi.org/10.1101/2024.02.09.579733> in-review at PNAS

## Talks

- "How did molting pave the way for adaptive seasonal color pattern plasticity?". *Evolution* (2023), Albuquerque, NM.
- "How Does Evolution Tune Seasonal Color Patterns in Butterflies". *Cornell Evo Day Symposium* (2023), Ithaca, NY.
- "The Genomics of Color Pattern Plasticity in *Junonia coenia* Butterflies". *Evolution* (2022), Cleveland, OH.
- "The Genetic Basis of Eyespot Plasticity". *Cornell EEB Winter Symposium* (2019), Ithaca, NY.
- "Conservation Genetics of a Threatened Butterfly (*Hesperia dacotae*)". 2017 BioFlorida Florida Biotech Expo, Sarasota, FL.

## Funding

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

## Teaching

### An Introduction to Evolutionary Biology and Diversity: Teaching Assistant

*Cornell University*

*August 2018–May 2019*

### Cellular and Developmental Biology: Teaching Assistant

*Cornell University*

*August 2021–December 2021*

## Outreach

### Co-leader, Cornell Diversity Preview Weekend

*Cornell University*

DEPT. OF ECOLOGY & EVOLUTIONARY BIOLOGY

*September 2019–September 2021*

- Organized three virtual recruitment events for over 80 undergraduates from underrepresented populations across the U.S.
- Planned and executed workshops on interviewing for graduate school
- Led weekly meetings of co-leaders and helped secure long-term funding for Cornell Diversity Preview Weekend (now Consider Cornell)

### Graduate mentor

*Cornell University*

DEPT. OF ECOLOGY & EVOLUTIONARY BIOLOGY

*August 2019–present*

- Prepared students for careers in science by teaching fundamentals of how to design and execute scientific experiments
- trained mentees in key next-gen molecular skills: CRISPR/Cas9 genome editing, DNA and RNA extraction, and in-situ hybridization
- trained mentees in critical soft-skills: time/project management, effective verbal communication, and scientific writing

# Service

---

## Diversity Equity Inclusion and Justice Hiring sub-committee

DEPT. OF ECOLOGY & EVOLUTIONARY BIOLOGY

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

Cornell University

August2020–May2022

## Graduate Student Recruitment Committee

DEPT. OF ECOLOGY & EVOLUTIONARY BIOLOGY

- Assisted in the planning and hosting of virtual and in-person recruitment events

Cornell University

August2021–March2023