



GRADUATE STUDIES in
BIOLOGICAL SCIENCES

ECOLOGY and EVOLUTIONARY BIOLOGY

PURDUE
UNIVERSITY

www.bio.purdue.edu

The **Ecology and Evolutionary Biology Research Area** is a dynamic and cohesive research and teaching community. Our focal research areas are Animal Behavior and Sensory Ecology, Ecology of Emerging Infectious Diseases, Evolutionary Genomics, and Ecological and Evolutionary Consequences of Human Impacts.

We use laboratory, field, and computational methods to study individuals, populations and communities in Indiana and around the world. Our community maintains a strong commitment to graduate and undergraduate education and training in the biological sciences.

- Our courses provide a firm academic foundation for our students, and our research programs provide opportunities for both graduate and undergraduate students to develop skills in a broad range of techniques and research approaches.
- Graduate students in our area work closely with faculty mentors on a diverse range of projects that may be directly aligned with their advisor's research program or designed primarily by the student.

Ongoing research by members of our research area includes behavioral ecology of birds and amphibians, evolutionary ecology of avian visual and auditory systems, evolutionary genetics and life history evolution, host-parasite interactions and evolution, biological invasions, ecological impacts of climate change, restoration ecology and genetics.

Faculty currently accepting students

Ximena Bernal: Interface between behavior, evolution and ecology, focused on animal communication.

Mark Christie: Conservation genetics, kinship and parentage analyses, gene expression, and population genetics.

Andrew DeWoody: Evolutionary genetics; molecular ecology and evolution; natural history; conservation biology; wildlife and fisheries management.

Jeffrey Dukes: How changes in climate and the atmosphere will affect the success and impact of invasive species.

Esteban Fernandez-Juricic: Behavioral ecology, visual ecology, and conservation biology.

Jeffrey Lucas: Plant community and ecosystem ecology to understand the implications of global environmental changes.

Dennis Minchella: Population biology, evolution, and genetics of host-parasite interactions.

Catherine Searle: Effects of species composition and community structure on infectious diseases.

Front image: Ross Biological Reserve; courtesy of Prof. Kerry Rabenold.

