

# Dr. Austin M. Smith

## Curriculum Vitae

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### EDUCATION

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- December 2024    **Doctor of Philosophy**, University of South Florida, Tampa, FL  
Major: Integrative Biology - Ecology & Evolution  
Advisor: Andrew M. Kramer  
Dissertation: "Species distribution models with environmental time series data and deep learning"
- May 2018        **Master of Science**, University of Florida, Gainesville, FL  
Major: Interdisciplinary Ecology – Wildlife Ecology & Conservation  
Advisors: Wendell P. Cropper Jr.; Michael Moulton  
Thesis: "A comparison of machine learning methods to classify Chukar Partridge (*Alectoris chukar*) establishment patterns in Washington state"
- August 2013    **Bachelor of Arts**, University of Florida, Gainesville, FL  
Major: Mathematics  
Minor: Secondary Education

### WORK EXPERIENCE

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*\*Ongoing project*

- Postdoctoral Researcher** June 2025 – Present  
University of Florida – Department of Wildlife Ecology & Conservation  
USGS Climate Adaptation Postdoctoral Fellow
- Graduate Research Assistant** May 2020 – December 2024  
University of South Florida – Department of Integrative Biology
- Graduate Teaching Assistant** August 2019 – December 2024  
University of South Florida – Department of Integrative
- Assistant Researcher** November 2018 – January 2020  
University of South Florida – Department of Integrative Biology
- Graduate Assistant** August 2015 – May 2018  
University of Florida – Department of Wildlife Ecology & Conservation

## PEER-REVIEWED PUBLICATIONS

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### *Published:*

- **A. M. Smith**, W. P. Cropper Jr., M. P. Moulton. 2025. A machine learning approach to managing game bird introductions. PeerJ. <https://doi.org/10.7717/peerj.20291>
- **A. M. Smith**, W. P. Cropper Jr., M. P. Moulton. 2021. A quantitative assessment of site-level factors in influencing Chukar (*Alectoris chukar*) introduction outcomes. PeerJ. <https://doi.org/10.7717/peerj.11280>

### *In review:*

- **A.M. Smith**, C. Capinha, A. M. Kramer. Incorporating environmental time series into species distribution models. *In review*
  - **Pre-print available on bioRxiv:** <https://doi.org/10.1101/2022.10.26.513922>

### *In preparation:*

- M. P. Moulton, W. P. Cropper Jr., **A. M. Smith**. A comment on Rock Partridge (*Alectoris graeca*) introductions.
- **A.M. Smith**, A. M. Kramer. Assessing deep learning protocols for optimizing time series-based species distribution models
- **A.M. Smith**, A. M. Kramer. Forecasting Species Distributions with Time Series Classification Models
- Anna Thonis, Adam Smith, Toni Lyn Morelli, Nikki Cavalieri, and Uzma Ashraf et. al. (SDM Workflows Project Team including **A.M. Smith**). A collaborative study on structural uncertainty in species distribution modeling.

## PRESENTATIONS

\* *Presenting author*

### *Contributed:*

- **A. M. Smith**, W. P. Cropper Jr.\*, M. Moulton. Introductions of chukars (*Alectoris chukar*) in the United States. 85th Annual Meeting of the Association of Southeastern Biologists. March 2024, Chattanooga, TN
- **A. M. Smith\***, C. Capinha, A. M. Kramer. Species distribution modeling with time series data and deep learning. (poster). University of South Florida Artificial Intelligence + X Symposium. September 2023, Tampa, FL.
- **A. M. Smith\***, A. M. Kramer. Assessing deep learning protocols for optimizing time series-based species distribution models. (poster). Ecological Society of America Annual Meeting. August 2023, Portland, OR.
- **A. M. Smith\***, C. Capinha, A. M. Kramer. Predicting species distributions with environmental time-series data and deep-learning. Ecological Society of America Annual Meeting. August 2021, Virtual.

- **A. M. Smith\***, W. P. Cropper Jr., M. Moulton. A comparison of machine learning methods to classify Chukar Partridge (*Alectoris chukar*) establishment patterns in Washington State. (poster). Ecological Society of America Annual Meeting. August 2018, New Orleans, LA.

*Invited:*

- University of South Florida, Department of Integrative Biology seminar series. A comparison of machine learning methods to classify chukar establishment patterns in Washington state. November 2019.
- University of South Florida, USF Math Club speaker series. Mathematics and machine learning: tools for niche theory & species distribution models. October 2019.

## GRANTS & FELLOWSHIPS

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| Aug 2023 – Dec 2023 | <i>Dissertation Completion Fellowship</i> , Office of Graduate Studies, University of South Florida, Tampa, FL. \$9,000 + tuition & fees |
| June 2023           | <i>Conference Travel Award</i> , Department of Integrative Biology, University of South Florida, Tampa, FL, \$2236.67                    |
| June 2017           | <i>Conference Travel Funding</i> , Department of Wildlife Ecology and Conservation, University of Florida, \$1300                        |

## COURSE TAUGHT

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*Primary instructor:*

- **Instructor**, BSC2011L – Biodiversity, University of South Florida. Lab. 2 sections, 24 students (each).
  - Semesters taught: Fall 2024; Spring 2023; Fall 2022; Spring 2020; Fall 2019.
- **Instructor**, PCB3043L – Principles of Ecology, University of South Florida. Lab. 2 sections, 23 students (each).
  - Semesters taught: Spring 2022

*Secondary instructor:*

- **Teaching Assistant**, BSC2011 – Biodiversity, University of South Florida. Lecture. 1 section, ~250 students.
  - Semesters taught: Spring 2023
- **Teaching Assistant**, WIS 2040 – Wildlife Issues in a Changing World, University of Florida. 3 section, ~150 students (each).
  - Semesters taught: Spring 2018; Fall 2017; Summer 2017; Spring 2017; Fall 2016; Summer 2016; Spring 2016

- **Teaching Assistant**, WIS 2552 – Biodiversity Conservation: Global Perspectives, University of Florida. Online. 1 section, 50 students.
  - Semesters taught: Spring 2018; Fall 2017; Summer 2017; Spring 2017; Fall 2016; Summer 2016; Spring 2016

*Guest lecturer:*

- PCB 6456C – Biometry (graduate course), University of South Florida. Lecture and lab. Spring 2024
- PCB 6456C – Biometry (graduate course), University of South Florida. Lecture and lab. Spring 2023

## MENTORING

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**Undergraduates:**

- Jordan Kaszyk (B.S. Cellular and Molecular Biology, University of South Florida. Spatial modeling of Chronic Wasting Disease. Spring 2020 – Summer 2022
- Raquel Gonzalez (B.S. Integrative Animal Biology), University of South Florida. Spatial modeling of invasive species. Fall 2019

## PROFESSIONAL SERVICES

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**Journal Reviews:**

- General Ecology: Ecosphere (1)
- Ornithology: Ornithological Applications (2)

**Community Experience:**

2018 – Present     *Lead Caretaker & Community Educator*, Bird of Prey Aviary, Boyd Hill  
Nature Preserve, St. Petersburg, FL

**Professional Affiliations:**

American Association for the Advancement of Science (2018-2021); American Ornithological Society (since 2018); British Ecological Society (since 2022); Ecological Society of America (since 2017); The Wildlife Society (since 2018)

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