

AUSTIN M. SMITH

## Curriculum Vitae

Department of Integrative Biology  
 University of South Florida  
 4202 E. Fowler Ave  
 SCA 110  
 Tampa, Florida 33620

Email: [amsmith11@usf.edu](mailto:amsmith11@usf.edu)  
 Website: [www.amsmithecolology.com](http://www.amsmithecolology.com)

**EDUCATION**

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| Aug. 2019 – Present   | <b>Doctor of Philosophy</b> , University of South Florida, Tampa, FL<br>Integrative Biology - Ecology & Evolution<br>Advisor: Andrew M. Kramer  |
| Aug. 2015 – May 2018  | <b>Master of Science</b> , University of Florida, Gainesville, FL<br>Interdisciplinary Ecology – Wildlife Ecology & Conservation<br>Advisors: Wendell P. Cropper Jr.; Michael Moulton |
| Aug. 2010 – Aug. 2013 | <b>Bachelor of Arts</b> , University of Florida, Gainesville, FL<br>Mathematics; Secondary Education (minor)  |
| Aug. 2007 – May 2010  | <b>Associate of Arts</b> , Santa Fe College, Gainesville, FL<br>Mathematics   |

**ACADEMIC APPOINTMENTS**

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| May 2023 – Present    | <i>Graduate Research Associate</i> , University of South Florida, Tampa, FL |
| Aug. 2022 – May 2023  | <i>Graduate Teaching Associate</i> , University of South Florida, Tampa, FL |
| Jan. 2020 – Aug. 2022 | <i>Graduate Research Associate</i> , University of South Florida, Tampa, FL |
| Aug. 2019 – Jun. 2020 | <i>Graduate Teaching Assistant</i> , University of South Florida, Tampa, FL |
| Oct. 2018 – Jan. 2020 | <i>Research Associate</i> , University of South Florida, Tampa, FL          |
| Jan. 2016 – Jun. 2018 | <i>Graduate Teaching Assistant</i> , University of Florida, Gainesville, FL |
| Aug. 2015 – Jan. 2016 | <i>Graduate Research Assistant</i> , University of Florida, Gainesville, FL |

**GRANTS & FELLOWSHIPS**

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| Aug 2023 – Dec 2023 | <i>Dissertation Completion Fellowship</i> , Office of Graduate Studies,<br>University of South Florida, Tampa, FL. \$9,000 + tuition & fees |
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| 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     |

## PEER-REVIEWED PUBLICATIONS

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- **A.M. Smith**, C. Capinha, A. M. Kramer. Species distribution models with deep learning and time-series data. *In review*
  - **Pre-print available on bioRxiv:** <https://doi.org/10.1101/2022.10.26.513922>
- **A. M. Smith**, W. P. Cropper Jr., M. P. Moulton. Machine learning as a tool for managing game bird introductions. *In review*
- M. P. Moulton, W. P. Cropper Jr., **A. M. Smith**. A comment on Rock Partridge (*Alectoris graeca*) introductions. *In review*
- **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. <https://doi.org/10.7717/peerj.11280>

## PRESENTATIONS

\* *Presenting author*

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### *Upcoming:*

- **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

### *Contributed:*

- **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.

## **COURSE TAUGHT**

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*Primary instructor:*

- **Instructor**, BSC2011L Biodiversity, University of South Florida. Lab. 2 sections, 25 students (each).
  - Semesters taught: 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, 300+ 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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- 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)

**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)