

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
Website: www.amsmithecolony.com

EDUCATION

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| Aug. 2019 – 2024 | Doctor of Philosophy , University of South Florida, Tampa, FL
Integrative Biology - Ecology & Evolution
Advisor: Andrew M. Kramer |
| Aug. 2015 – May 2018 | Master of Science , University of Florida, Gainesville, FL
Interdisciplinary Ecology – Wildlife Ecology & Conservation
Advisors: Wendell P. Cropper Jr.; Michael Moulton |
| Aug. 2010 – Aug. 2013 | Bachelor of Arts , University of Florida, Gainesville, FL
Mathematics; Secondary Education (minor) |
| Aug. 2007 – May 2010 | Associate of Arts , Santa Fe College, Gainesville, FL
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,
University of South Florida, Tampa, FL. \$9,000 + tuition & fees |
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- June 2023 *Conference Travel Award*, Department of Integrative Biology,
University of South Florida, Tampa, FL, \$2236.67
- June 2017 *Conference Travel Funding*, Department of Wildlife Ecology and
Conservation, University of Florida, \$1300

PEER-REVIEWED PUBLICATIONS

- **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*

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.

COURSE TAUGHT

Primary instructor:

- **Instructor**, BSC2011L Biodiversity, University of South Florida. Lab. 2 sections, 25 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, 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

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

PROFESSIONAL SERVICES

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)