AUSTIN M. SMITH
Curriculum Vitae

Department of Integrative Biology
University of South Florida
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EDUCATION

Aug. 2019 – Present	**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

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

GRANTS & FELLOWSHIPS

Aug 2023 – Dec 2023	*Dissertation Completion Fellowship*, Office of Graduate Studies, University of South Florida, Tampa, FL. $9,000 + tuition & fees

June 2023	*Conference Travel Award*, Department of Integrative Biology, University of South Florida, Tampa, FL, $2,236.67
June 2017	*Conference Travel Funding*, Department of Wildlife Ecology and Conservation, University of Florida, $1,300

PEER-REVIEWED PUBLICATIONS

- **A.M. Smith**, C. Capinha, A. M. Kramer. Sepecies distribution models with deep learning and time-series data. Ecology Letters. *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. Ecosphere. *in review*

- M. P. Moulton, W. P. Cropper Jr., **A. M. Smith**. A comment on Rock Partridge (*Alectoris graeca*) introductions. Ornithology *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. PeerJ 9:e11280 DOI 10.7717/peerj.11280

PRESENTATIONS

** indicates presenting speaker*

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

Primary instructor:

- **Instructor**, PCB3043L Principles of Ecology, University of South Florida. Lab. 2 sections, 23 students (each).
    - Semesters taught: Spring 2022

- **Instructor**, BSC2011L Biodiversity, University of South Florida. Lab. 2 sections, 25 students (each).
    - Semesters taught: Spring 2023; Fall 2022; Spring 2020; Fall 2019.

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.

MENTORING

- 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)