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.amsmithecology.com](http://www.amsmithecology.com)

**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, $1300 |

**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)