

# Pat M. Martin

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## SUMMARY OF QUALIFICATIONS

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- Evolutional biologist with 4 years of experience performing field studies in South Florida
- Exceptional skills in collection and assessment of long-term environmental impacts of invasive species and performed research in both urban forests and remote conservation areas
- Designed studies and ecological monitoring frameworks for avian predation and Anolis lizards in the northeastern Caribbean

## EDUCATION

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*Florida International University (FIU)* Miami, FL  
**Doctor of Philosophy in Ecology and Evolutional Biology** May 2020  
**Master of Science in Ecology Studies** December 2015

*Northwestern University (NU)* Evanston, IL  
**Bachelor of Arts in Biological Science** May 2011

## FELLOWSHIPS & AFFILIATIONS

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**Postdoctoral Fellowship, U.S. Department of Education** May 2019 – Present  
**Andrew Mellon Foundation Graduate Research Fellowship** November 2018  
**National Science Foundation Graduate Fellowship** January 2016 – Present

## RESEARCH & PROFESSIONAL EXPERIENCE

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**Senior Field Biologist, Science Corp, Miami, FL** June 2018 - Present

- Conducts habitat assessments and species surveys by collecting data and providing weekly reports
- Use multiple measuring and assessment methods to determine future impacts on ecosystem
- Worked with clients to determine critical management areas and best specialized conservation practices

**Research Fellow, Florida International University, Miami, FL** August 2016 - August 2018  
Research Advisor: Dr. Abraham Simpson, Department of Ecology and Evolutionary Biology

- Field study of the impact of avian predation on Anolis lizards in the eastern Caribbean documents the importance of differences in spatial scale between prey and predators
- Theoretical analysis of spatial scale and environments heterogeneity in models of predator-prey communities
- Analytical and numerical work shows how species interaction can sharpen underlying environmental patterns and how heterogeneous environments can stabilize predator and prey populations

## TEACHING EXPERIENCE

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**Adjunct Professor, Florida International University, Miami, FL** August 2019 – Present

- Taught introductory ecological and evolutionary sciences for undergraduate students
- Developed curriculum and course materials for ecology and environmental science classes
- Facilitated virtual lectures and demonstrations via Zoom to serve students in a hybrid online/in-person course

**Graduate Teaching Assistant, Florida International University.** Miami, FL August 2012 - July 2019

- Taught two environmental science courses for approximately 230 per semester in The Ecology of South Florida and Restoration Ecology lab
- Facilitated weekly lectures about the natural resources of South Florida, including major plant communities, threatened, endangered, and exotic species, and the Comprehensive Everglades Restoration Plan.
- Assisted faculty members with grading across lab sections and proctoring exams

## **PUBLICATIONS**

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Fletcher, J. and **P.M. Martin**. 2019, Scrub Jay predation on starlings and swallows; attack and interspecific defense, *Condor* 96;503-505. Martin, P.M. and A. Simpson. 2018. Avian predation on Anolis lizards in the northeastern Caribbean: an interisland contrast, *Ecology* 76;617-628.

**Martin, P.M.** and A. Simpson. 2018, Pattern and stability in predator-prey communities; how diffusion in spatially variable environments affects the Lotka-Volterra model, *Theoretical Population Biology* (in press).

**Martin, P.M.** and A. Simpson. 2016, Predation across spatial scales in heterogeneous environments, *Theoretical Population Biology* (in press).

## **CONFERENCES & PRESENTATIONS**

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**Bridging the Gap Between Theoretical and Empirical Ecology** November 2019  
Florida Ecological Association, Orlando, FL

**Understanding best conservation efforts in relation to rare plants in urban settings** April 2019  
*National Environmental Conference*, Portland, OR

**Establishing long-term and community-based conservation management** August 2018  
*Ecological Society of America*, San Antonio, TX

## **SKILLS**

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*Computer:* Microsoft Suite, SPSS, Google Suite, C+

*Languages:* Spanish (fluent)

*Technical:* ArcMap GIS