### Renata M. Diaz

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https://diazrenata.github.io/home/

School of Natural Resources & Environment, University of Florida, Gainesville, FL

#### Education

PhD – Interdisciplinary Ecology and Wildlife Ecology and Conservation Advisor: S. K. Morgan Ernest

University of Florida Expected 2022

Dissertation: Of rodents and randomness: macroecological approaches to community structure

A.B – Ecology and Evolutionary Biology, high honors

Princeton University

2015

Certificate in Environmental Studies

Senior thesis: Herbivore-mediated effects of small mammals on the spatial distribution of savanna trees. Awarded Leslie Kilham Johnson Memorial Award for an outstanding thesis in tropical ecology.

### **Funding**

NSF Graduate Research Fellowship

2017-2022

UF School of Natural Resources & Environment Travel Award

2021

#### **Publications**

R. M. Diaz and S. K. M. Ernest. Maintenance of community function through compensation breaks down over time in a desert rodent community. In press, *Ecology*; preprint: https://doi.org/10.1101/2021.10.01.462799.

R. M. Diaz, H. Ye, S. K. M. Ernest (2021). Empirical abundance distributions are more uneven than expected given their statistical baseline. *Ecology Letters*, 2021;00:1-15. https://doi.org/10.1111/ele.13820

E. M. Christensen, G. M. Yenni, H. Ye, J. L. Simonis, E. K. Bledsoe, R. M. Diaz, S. D. Taylor, E. P. White, S. K. M. Ernest (2019), portalr: an R package for summarizing and using the Portal Project Data. Journal of Open Source Software, 4(33), 1098, https://doi.org/10.21105/joss.01098

G. M. Yenni, E. M. Christensen, E. K. Bledsoe, S. R. Supp, R. M. Diaz, E. P. White, S. K. M. Ernest (2019). Developing a modern data workflow for regularly updated data. PLoS Biol 17(1): e3000125. https://doi.org/10.1371/journal.pbio.3000125

#### In prep/in review

R. M. Diaz and S. K. M. Ernest. Shifts in the individual size distribution decouple the dynamics of abundance, biomass, and energy use in North American breeding bird communities. In prep.

## Software and data products

S. K. M. Ernest, et al. (2018). The Portal Project: a long-term study of a Chihuahuan desert ecosystem. bioRxiv 332783, https://doi.org/10.1101/332783

#### R packages

feasiblesads Author, maintainer

https://github.com/diazrenata/feasiblesads https://doi.org/10.5281/zenodo.4710750 Renata M. Diaz

MATSS
Author

https://weecology.github.io/MATSS/
https://doi.org/10.5281/zenodo.3333008

LDATS
Author

https://weecology.github.io/LDATS/
https://doi.org/10.5281/zenodo.3286617

portalr <u>https://weecology.github.io/portalr/</u>
Author <u>https://doi.org/10.5281/zenodo.1429290</u>

#### **Presentations**

R. M. Diaz\* and S. K. M. Ernest. Energetic compensation breaks down over time in a desert rodent community. ESA Annual Meeting. \*presenting author August 2021

Shifts in energetic compensation over time in a desert rodent community.

April 2021
UF SNRE Student Research Symposium.

The Portal Project – data workflow for living data. UF Open Data Showcase.

October 2019

## **Teaching experience**

TA, Environmental Science Lab.

University of Florida

Developed & delivered field and data analysis lab exercises.

University of Florida

Co-instructor, Introduction to R Workshop.

University of Florida Carpentries Club
2020-present

Writing Center Fellow, Princeton Writing Program

Princeton University
Provided one-on-one writing assistance to undergraduate & graduate students.

2012-2015

# Research experience

Research Assistant, The Portal Project, Portal, AZ

Field censuses of desert rodent and plant communities.

University of Florida
2017-present

GIS Intern, Global Change Ecology Lab, St. Louis, MO

Missouri Botanic Garden

Data compilation and analysis of threats to rare plants in the United States.

2017

Intern, Ecology of Bird Loss Project, Saipan, CNMI Iowa State University Field surveys of tropical forest trees, seed rain, and frugivory observations.

Research Assistant, Staver Lab, New Haven, CT and field sites

Yale University
Management of greenhouse experiments, field work, and image analysis.

2015-2016

# Training and workshops

Certified Data Carpentry Instructor, via The Carpentries 2021

Certified Ally Skills Workshop leader, via FrameShift Consulting 2019

Data-driven Ecological Synthesis Intensive course participant, University of Montreal 2019