

Renata M. Diaz

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

Education

PhD – Interdisciplinary Ecology and Wildlife Ecology and Conservation University of Florida
Advisor: S. K. Morgan Ernest Expected 2022
Dissertation: Of rodents and randomness: macroecological approaches to community structure

A.B – Ecology and Evolutionary Biology, high honors Princeton University
Certificate in Environmental Studies 2015
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, H. Ye, S. K. M. Ernest. Empirical abundance distributions are more uneven than expected given their statistical baseline. In press, *Ecology Letters*. Preprint:
<https://doi.org/10.1101/2021.01.18.427126>

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

R. M. Diaz and S. K. M. Ernest. Energetic compensation breaks down over time in a desert rodent community. In prep.

Software and data products

S. K. M. Ernest, G. M. Yenni, G. Allington, E. K. Bledsoe, E. M. Christensen, R. M. Diaz, K. Geluso, J. R. Goheen, O. Guo, E. Heske, D. Kelt, J. M. Meiners, J. Munger, C. Restrepo, D. A. Samson, M. R. Schutzenhofer, M. Skupski, S. R. Supp, K. Thibault, S. Taylor, E. White, H. Ye, D. W. Davidson, J. H. Brown, T. J. Valone (2018). The Portal Project: a long-term study of a Chihuahuan desert ecosystem. *bioRxiv* 332783, <https://doi.org/10.1101/332783>

R packages

MATSS

Author

<https://github.com/weecology/MATSS><https://doi.org/10.5281/zenodo.3333008>

LDATS

Author

<https://github.com/weecology/LDATS><https://doi.org/10.5281/zenodo.3286617>

portalr

Author

<https://github.com/weecology/portalr><https://doi.org/10.5281/zenodo.1429290>

cvlt

Author, maintainer

<https://github.com/diazrenata/cvlt><https://doi.org/10.5281/zenodo.4884832>**Presentations**

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

Upcoming

Diaz, Renata M.* and Ernest, S. K. Morgan. Energetic compensation breaks down over time in a desert rodent community. ESA Annual Meeting. *presenting author

August 2021

Teaching experience

TA, Environmental Science Lab.

University of Florida

Developed & delivered field and data analysis lab exercises, delivered remotely.

Fall 2020

Co-instructor, Introduction to R Workshop.

University of Florida Carpentries Club

September 2020

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

University of Florida

Field censuses of desert rodent and plant communities.

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.

2016

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

Yale University

Management of greenhouse experiments, field work, and image analysis

2015-2016