

Paula Lemos-Costa

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Education and Experience

- 2019-** Postdoctoral Scholar - University of Chicago, IL USA
Allesina lab
- 2014-2018** PhD in Ecology - Universidade Estadual de Campinas (Unicamp), Brazil
Supervisor: Marcus A. Martinez de Aguiar
Thesis: Coevolution in context-dependent interactions
- 2011-2013** MSc. in Ecology - Universidade de São Paulo (USP), Brazil
Supervisor: Paulo R. Guimarães Jr
Dissertation: Intrapopulational variation in resource use: theoretical models and empirical evidence
- 2005-2009** BSc. in Biology - Universidade de São Paulo

Research Interests

- **Theoretical ecology and the bridge between models and data**
- **Species interactions, Coevolutionary Dynamics and the role of context dependency in shaping coevolution**
- **Connection between microevolutionary processes and macroevolutionary patterns**
- **Intraspecific variation and its ecological and evolutionary implications**

Grants & Awards

- 2019** Publisher's Award for Excellence in Systematic Research, awarded by the Society of Systematic Biologists for the paper *Signatures of microevolutionary processes in phylogenetic patterns*
- 2014-2018** CAPES PhD scholarship
- 2013** Award for the best dissertation defended in 2013 at the Ecology Department of the University of Sao Paulo
- 2011-2013** FAPESP MSc scholarship
- 2012** FAPESP MSc international scholarship (UC - Santa Cruz)
- 2011** CNPq MSc scholarship
- 2009** FAPESP undergraduate research assistance fellowship

Publications

- 2019**
Coevolution Creates Complex Mosaics across Large Landscapes *
Fernandes, L.D., **Lemos-Costa, P.**, Guimarães, P. R., Thompson, J. N., & Aguiar, M. A. M. *The American Naturalist* (DOI: 10.1086/704157) * Recommended by the F1000

2018

Signatures of microevolutionary processes in phylogenetic patterns

Costa*, C. L. N., **Lemos-Costa*, P.**, Marquitti*, F. M. D., L. D. Fernandes, Ramos, M. D, Schneider, D., Martins, A. B., & Aguiar, M. A. M.

*share first authorship

Systematic Biology (DOI: 10.1093/sysbio/syy049)

2017

Gene flow and metacommunity arrangement affects coevolutionary dynamics at the mutualism–antagonism interface

Lemos-Costa, P., Martins, A. B., Thompson, J. N., & Aguiar, M. A. M.

Journal of the Royal Society Interface (DOI: 10.1098/rsif.2016.0989)

2016

Network analyses support the role of prey preferences in shaping resource use patterns within five animal populations

Lemos-Costa, P., Pires, M. M., Araújo, M. S., Aguiar, M. A., & Guimarães, P. R.

Oikos (DOI: 10.1111/oik.03006)

In preparation

A Lotka-Volterra-inspired framework for analyzing Biodiversity-Ecosystem Functioning experiments

Paula Lemos-Costa, Zachary R. Miller, Abigail Skwara & Stefano Allesina

Improved algorithms and error structures for inferring species' interactions from co-culture experiments

Abigail Skwara, **Paula Lemos-Costa**, Zachary R. Miller & Stefano Allesina

The history of ecology through the lenses of its publication record

Paula Lemos-Costa, Abigail Skwara & Stefano Allesina

Teaching Experience

2019 Advanced Computing I and II (BSD Quantitative Biology Bootcamp - UChicago)

2017 TA Ecology of Interactions (undergrad course - UNICAMP)

2014-2017,

2019 TA Southern Summer School on Mathematical Biology (ICTP - UNESP)

2014 R for beginners (short course at UNICAMP)

2012 TA R language for data analysis in Ecology (graduate course USP)

2010 TA Ecology II (undergrad course - USP)

Thesis Defense Committee

2021 Gracielle Higino, Universidade Federal de Goiás, PhD in Ecology and Evolution

2021 Viviana Márquez Velásquez, Universidade Federal da Paraíba, PhD in Biological Sciences

Academic Visits

2016 Visiting researcher at John N. Thompson's lab (UC - Santa Cruz, 1 semester)

2012 Visiting researcher at Tim Tinker's lab (UC - Santa Cruz, 1 semester)

Conference Talks

- 2020** Stand Alone Meeting of the American Society of Naturalists – Pacific Grove, CA, USA
- 2018** II Joint Congress on Evolutionary Biology – Montpellier, France
- 2017** 102th Annual Meeting of the Ecological Society of America - Portland, OR, USA
- 2016** Annual Meeting of the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists - Austin, TX, USA
- 2014** 99th Annual Meeting of the Ecological Society of America - Sacramento, CA, USA
- 2013** 98th Annual Meeting of the Ecological Society of America - Minneapolis, MN, USA

Service

Peer reviewed manuscripts for Aquatic Ecology, Oikos, Methods in Ecology and Evolution, Oecologia, PeerJ, Evolutionary Ecology, PloS Computational Biology, Community Ecology, Evolutionary Ecology, Global Ecology and Biogeography, Perspectives in Ecology and Conservation
Evaluator of the UNICAMP Undergrad Research Meeting (2016-2018)