

Luciano Palmieri

ENTOMOLOGIST, HONORARY POSTDOCTORAL FELLOW

University of Wisconsin - Madison, Department of Integrative Biology
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EDUCATION

UNIVERSITY OF SÃO PAULO - PhD, Entomology | 2017

UNIVERSITY OF SÃO PAULO - MS, Entomology | 2012

UNIVERSITY OF SÃO PAULO - BS, Biology | 2007

RESEARCH EXPERIENCE

POSTDOCTORAL HONORARY FELLOW

Sharma Lab, Department of integrative Biology, University of Wisconsin - Madison | Aug 2017 – Jul 2022

- Analyzed NovaSeq and Oxford Nanopore data to investigate weevil/bacterial endosymbiont association

POSTDOCTORAL RESEARCH ASSOCIATE

Brunet Lab, USDA - ARS Research Participation Program, ORISE - Madison | Apr 2018 – Dec 2019

- Investigated population structure of wild carrots using RADseq (GBS) data

VISITING RESEARCHER

CBGP - INRA (National Institute for Agricultural Research), Montpellier, France | Jul 2015 – Jul 2016

Advised by Dr. Jean-Yves Rasplus

- Conducted wet lab experiments to generate Sanger data on fig-weevils; used phylogenetic inference to study relationship among fig-weevils

GRADUATE RESEARCHER

Laboratório de Biologia Reprodutiva de Ficus, FFCLRP, University of São Paulo | 2010 – 2017

Advised by Dr. Rodrigo Augusto Santinelo Pereira

- Conducted multiple surveys of non-wasp insects associated with fig trees; studied the taxonomy and systematics of weevils associated with figs in three biogeographical regions; reared, curated and identified insect species; curated and identified fig tree species

RESEARCH ASSISTANT

Laboratório de Biologia Reprodutiva de Ficus, FFCLRP, University of São Paulo | 2008 – 2009

Advised by Dr. Rodrigo Augusto Santinelo Pereira

- Organized and participated on field expeditions to survey fig tree populations in the Atlantic Forest; performed georeferencing, plot-delimitations and sampling

UNDERGRADUATE RESEARCHER

Laboratório de Biologia Reprodutiva de Ficus, FFCLRP, University of São Paulo | 2007

Advised by Dr. Rodrigo Augusto Santinelo Pereira

- Developed a method for georeferencing individual trees using R

ENTOMOLOGICAL COLLECTION EXPERIENCE

USNM - NATIONAL MUSEUM OF NATURAL HISTORY, WASHINGTON DC, USA
(80 hours) | Nov 2013 and Dec 2017

BMNH - THE NATURAL HISTORY MUSEUM, LONDON, UNITED KINGDOM
(40 hours) | Feb 2016

MNHN - MUSEUM NATIONAL D'HISTOIRE NATURELLE, PARIS, FRANCE
(40 hours) | Jan 2016

AMG - ALBANY MUSEUM, GRAHAMSTOWN, SOUTH AFRICA
(8 hours) | Mar 2015

SAMC - IZIKO SOUTH AFRICAN MUSEUM, CAPE TOWN, SOUTH AFRICA
(40 hours) | Feb 2015

INBIO - INSTITUTO NACIONAL DE BIODIVERSIDAD, SANTO DOMINGO, COSTA RICA
(8 hours) | Dez 2013

AMNH - AMERICAN MUSEUM OF NATURAL HISTORY, NEW YORK CITY, USA
(40 hours) | Oct 2013

FIELD EXPEDITION EXPERIENCE

BRAZIL | 2010 – 2017

- Multiple expeditions on several areas of the Atlantic Forest across four states (Minas Gerais, Rio de Janeiro, São Paulo, and Paraná). Surveyed pollinators, insects associated with fig trees, and plants

Costa Rica | 2013

- A one-month expedition across all seven Costa Rica's provinces to survey weevils on fig trees

PHILIPPINES | 2014

- A three-month expedition across Luzon, Panay, Cebu, and Camiguin Islands to survey weevils on fig trees

SOUTH AFRICA | 2015

- A two-week expedition around Grahamstown to survey weevils on fig trees

TEACHING EXPERIENCE

GRADUATE TEACHING ASSISTANT

Multidisciplinary Seminars in Biology, University of São Paulo | Feb - Jun 2012

PUBLICATIONS

PEER REVIEWED PUBLICATIONS

PALMIERI L ; Chamorro L & Sharma P. 2022. Phylogenetic assessment of the *Metamasius hemipterus* species complex (Coleoptera, Curculionidae, Dryophthorinae). *Molecular Phylogenetics and Evolution* (in press).

PALMIERI L; Ellison S; Senalik D; Simon P & Brunet J. 2019. Genetic markers to detect introgression of cultivar genes into wild carrot populations. *ISHS Acta Horticulturae 1264: II International Symposium on Carrot and Other Apiaceae. Apiaceae*. doi.org/10.17660/ActaHortic.2019.1264.20

PALMIERI L & Pereira RAS. 2018. The role of non-fig-wasp insects on fig tree biology, with a proposal of the F phase (Fallen figs). *Acta Oecologica*, v.90, p. 132-139. doi.org/10.1016/j.actao.2017.10.006

PALMIERI L; Farache FHA; Pereira RAS & Hansson C. 2013. New records of *Paracrias Ashmead* (Hymenoptera, Eulophidae) as parasitoids on weevil larvae (Coleoptera, Curculionidae) in Brazil, with the description of a new species. *Iheringia. Série Zoológica*, v.103, p.313-317. dx.doi.org/10.1590/S0073-47212013000300014

NON-PEER REVIEWED PUBLICATIONS

PALMIERI L. 2017. Biogeography of Weevils (Curculionidae: Coleoptera) associated with figs (Ficus: Moraceae). Doctoral Dissertation. University of Sao Paulo. https://www.teses.usp.br/teses/disponiveis/59/59131/tde-21062017-174238/publico/Luciano_Palmieri.pdf

IN PREPARATION

PALMIERI L ; Pavarini R & Sharma P. Draft Genome Sequence of *Candidatus Nardonella dryophthoridicola* NARMHE1, Endosymbiont of *Metamasius hemipterus* (Coleoptera, Curculionidae, Dryophthorinae). (submitted to *Microbiology Resource Announcement* – Jul/2022).

BOSCOLO, D. et al. ATLANTIC FLOWER-INVERTEBRATE INTERACTIONS: a dataset of occurrence and frequency of floral visits. (under review on *Ecology*).

PALMIERI L & Sharma P. The biogeographic history of the Assamiidae of southeast Asia: too old for the ferry.

Hernandez F; **PALMIERI L** & Brunet J. Population structure of wild carrots (*Daucus carota* var. *sativa*) in North America.

PALMIERI L; Cruaud A; Pereira RAS & Rasplus J-Y. Historical biogeography of Curculionini: a tale of host shift.

PALMIERI L; Cruaud A; Rasplus J-Y & Pereira RAS. Taxonomic review, systematics, and historical biogeography of *Ceratopus*: the Neotropical Fig-weevil.

PRESENTATIONS

PRESENTED

PALMIERI L; Perrin H; Rodriguez LJ; Compton SG; van Noort S; Cruaud A; Rasplus J-Y & Pereira RAS. Systematics and Biogeography of weevils (Curculionidae: Coleoptera) associated with figs (Ficus; Moraceae). Oral presentation at the IX International Fig Symposium, Montpellier, France | 2016

PALMIERI L & Pereira RAS. Non-wasp fauna of Neotropical fig tree species: new insights on the fig-insect associations. Oral presentation at the 49th Annual Meeting of the Association for Tropical Biology and Conservation, Bonito, Brazil | 2012

PALMIERI L & Pereira RAS. Non-wasp fauna associated with Neotropical fig trees: insights for studies on community ecology. Oral presentation at the VIII International Fig Symposium, Ribeirão Preto, Brazil | 2012

PALMIERI L & Pereira RAS. The F-phase (post-dispersal): the value of fallen figs. Poster at the VIII International Fig Symposium, Ribeirão Preto, Brazil | 2012

PALMIERI L & Pereira RAS. Método de localização espacial de árvores baseado em medidas de distância. Poster at the 58° Congresso Nacional de Botânica, São Paulo, Brazil | 2007

CO-AUTHORED

Brunet J; Riday H; Dieterich Mabin ME; **PALMIERI** L & Flick A. Selfing rates in alfalfa seed production fields. Winter Seed Conference, Western Alfalfa Seed Growers Association | 2020

Brunet J & **PALMIERI** I L. Introgression of cultivar genes into wild carrot populations. XXVIII Plant and Animal Genome Conference, San Diego, USA | 2020

Brunet J & **PALMIERI** I L. Introgression of cultivar genes into wild carrot populations. XXVII Plant and Animal Genome Conference, San Diego, USA | 2019

Fragoso FP; **PALMIERI** L & Varanda EM. Reestablishment of flower visitor communities in restored areas of Atlantic Semideciduous Forest. 5th World Conference on Ecological Restoration, Madison, USA | 2013

Coelho LFM; **PALMIERI** L; Pizo M & Pereira RAS. Vertical distribution and habit plasticity of fig trees in two Atlantic Forest physiognomies, Southeastern Brazil. VIII International Fig Symposium, Ribeirão Preto, Brazil | 2012

Coelho LFM; **PALMIERI** I L & Pereira RAS. Composição e estrutura da comunidade de figueiras (*Ficus* L.,

Moraceae) em áreas de floresta estacional semidecídua no interior paulista. 61º Congresso Nacional de Botânica, Manaus, Brazil | 2010

Coelho LFM; **PALMIERI** L & Pereira RAS. História natural de espécies de Ficus L. (Moraceae) nativas em áreas de floresta estacional semidecídua no interior paulista. 61º Congresso Nacional de Botânica, Manaus, Brazil | 2010

Rattis-Teixeira LM; Cerezini MT; **PALMIERI** L; Coelho LFM & Pereira RAS. Effect of forest fragmentation on pollination of Ficus Eximia (Moraceae) in Sao Paulo State. Landscape Ecology in Latin America: Challenges and Perspectives, Campos do Jordão, Brazil | 2009

Cerezini MT; Rattis-Teixeira LM; **PALMIERI** L; Coelho LFM & Pereira RAS. Effects of forest fragmentation on populations of Ficus citrifolia Mill. (Moraceae) in Sao Paulo State. Landscape Ecology in Latin America: Challenges and Perspectives, Campos do Jordão, Brazil | 2009

Coelho LFM; **PALMIERI** L & Pereira RAS. Patch area effect on Ficus, sec. Americana (Moraceae) in three fragmented landscapes in Sao Paulo State, Brazil. Landscape Ecology in Latin America: Challenges and Perspectives, Campos do Jordão, Brazil | 2009

GRANTS AND SCHOLARSHIPS

FAPESP, São Paulo Research Foundation. PhD Grant | 2013 – 2017

FAPESP, São Paulo Research Foundation. Research Internships Abroad Grant | 2015 – 2016

CNPq, National Council for Scientific and Technological Development. Masters Grant | 2010 – 2012

FAPESP, São Paulo Research Foundation. Technical training (TT3) Grant | 2008 - 2009

Vila do Ipê Enterprises Ltd. Research Financial Support | 2006 - 2007

Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto Foundation Grant | 2005 – 2006

PROFESSIONAL DEVELOPMENT

mRNAseq Data Analysis Workshop (8 hours), University of Wisconsin | 2017

Introduction to Next-Gen Sequencing Data Analysis (8 hours), University of Wisconsin | 2017

Linux Essentials for Next-Generation Sequencing Data Analysis (8 hours), University of Wisconsin | 2017

Introduction to NGS for Barcoding, Systematics and Phylogeny (30 hours), University of Sao Paulo | 2017

II Workshop of Biogeography (48 hours), University of Rio de Janeiro | 2014

V Workshop of Phylogenetic Systematics (40 hours), State University Júlio de Mesquita Filho | 2014

Writing in the Sciences (8 weeks, online course), Stanford University | 2012

Insect Internal Morphology (20 hours), University of Sao Paulo | 2012

PROFESSIONAL SERVICE

COMMITTEES

Member, bachelor's thesis committee of Luiz Henrique de M. Mineli. Comunidade de trepadeiras em mata estacional semidecidual: estrutura e resposta após sete anos de manejo por corte. University of Sao Paulo | 2014

Member, bachelor's thesis committee of Luanne Caires da Cruz Souza. Estudo do impacto do manejo de lianas sobre a regeneração de espécies arbóreas de um remanescente de floresta estacional semidecidual. University of Sao Paulo | 2014

PEER REVIEWER

Revista Brasileira de Entomologia | 2021

Acta Oecologica | 2017

SCIENTIFIC OUTREACH AND COMMUNICATION

MEDIA REPORTS AND INTERVIEWS

Nova fase na relação entre figueiras e vespas é desvendada | 2018

<https://agencia.fapesp.br/nova-fase-na-relacao-entre-figueiras-e-vespas-e-desvendada/28396/>

Relação de mutualismo entre figueiras e vespas tem nova fase revelada | 2018

<https://jornal.usp.br/ciencias/ciencias-biologicas/relacao-de-mutualismo-entre-figueiras-e-vespas-tem-nova-fase-revelada/>

EVENTS

Wisconsin Science Festival – Pollinator Booth | 2018 and 2019

FFCLRP - Biology Department Annual Science Exposition | 2005 and 2010

LANGUAGES

PORTUGUESE	Native
ENGLISH	Fluent
FRENCH	Intermediate
SPANISH	Basic