

PAMELA PUPPO

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EDUCATION

- 2015 **Ph.D. Biodiversity, Genetics and Evolution**, University of Porto, Portugal
2008 **M.Sc. Biology, Plant Systematics**, University of Missouri, St. Louis, Missouri, USA
2005 **B.Sc. Biology**, La Molina National Agrarian University, Lima, Peru

APPOINTMENTS

- Dept. Biological Sciences, Marshall University**, Huntington, WV, USA
Assistant Professor and Curator of Marshall University Herbarium Jan 2020 – Present
- Dept. Biological Sciences, North Dakota State University**, Fargo, ND, USA
Post-doctoral Fellow | Supervisor: Kendra Greenlee Apr 2018 – Dec 2019
- EnvMetaGen Project, CIBIO/InBIO, University of Porto**, Portugal
Research Assistant | Supervisor: Simon Jarman Oct 2016 – Mar 2018
- CLEPUL, University of Lisbon**, Portugal
Visiting Scientist | Supervisor: José Eduardo Franco Apr – May 2016
- Institute of Nature Conservation Research, Boku University**, Vienna, Austria
Postgraduate Research Associate | Supervisor: Harald Meimberg Aug – Dec 2015

PUBLICATIONS

Peer-Reviewed Journals

22. Egeter B, BC Robertson, C Roe, S Peixoto, P Puppo, L Easton, PJ Bishop. 2019. Using molecular diet analysis to inform invasive species management: A case study of introduced rats consuming endemic New Zealand frogs. *Ecology and Evolution* 9:5032-5048. [Top 10% most downloaded papers]
21. Egeter B, S Peixoto, JC Brito, S Jarman, P Puppo, G Velo-Antón. 2018. Challenges for assessing vertebrate diversity in Saharan water-bodies using environmental DNA. *Genome* 61:807-814.
20. Curto M, C Schachtler, P Puppo, H Meimberg. 2018. Using a new RAD-sequencing approach to study the evolution of *Micromeria* (Lamiaceae) in the Canary Islands. *Molecular Phylogenetics and Evolution* 119:160-169.
19. Curto M, P Puppo, C Kratschmer, H Meimberg. 2017. Genetic diversity and differentiation patterns of *Micromeria* from the Canary Islands are congruent with multiple colonization dynamics and the establishment of species syngameons. *BMC Evolutionary Biology* 17:198.
18. Puppo P, H Meimberg, PL Pérez de Paz, C Bräuchler. 2017. Nomenclatural Notes on Macaronesian *Micromeria* (Lamiaceae). *Phytotaxa* 317:79-80.
17. Romero-Hernández C, RW Bussmann, P Puppo. 2017. New species of *Calceolaria* (Calceolariaceae) from Northern Peru. *Novon* 25: 316-321.

16. Puppo P, M Curto, H Meimberg. 2016. Genetic structure of *Micromeria* (Lamiaceae) in Tenerife, the imprint of geological history and hybridization on within-island diversification. *Ecology and Evolution* 6:3443–3460. [Featured in the cover]
15. Puppo P, H Meimberg. 2015. Corrections to *Phytotaxa* 230: New species and new combinations in *Micromeria* (Lamiaceae) from the Canary Islands and Madeira. *Phytotaxa* 239:197–198.
14. Puppo P, H Meimberg. 2015. New species and new combinations in *Micromeria* (Lamiaceae) from the Canary Islands and Madeira. *Phytotaxa* 230:1–21.
13. Puppo P, M Curto, J Gusmão-Guedes, J Cochofel, PL Pérez de Paz, C Bräuchler, H Meimberg. 2015. Molecular phylogenetics of *Micromeria* (Lamiaceae) in the Canary Islands, diversification and inter-island colonization patterns inferred from nuclear genes. *Molecular Phylogenetics and Evolution* 89:160–170.
12. Puppo P, M Curto, H Meimberg. 2015. Development and characterization of 16 microsatellite markers for *Micromeria* (Lamiaceae) from Tenerife (Canary Islands, Spain) using 454 sequencing. *Conservation Genetics Resources* 7:743–749.
11. Puppo P, H Meimberg, PL Pérez de Paz, C Bräuchler. 2014. (2326-2327) Proposals to conserve the names *Micromeria varia* with a conserved type and *M. hyssopifolia* against *Thymus ericifolius* (Lamiaceae). *Taxon* 63:1137–1138.
10. Puppo P, M Curto, G Velo-Antón, PL Pérez de Paz, H Meimberg. 2014. The influence of geological history on diversification in insular species: genetic and morphological patterns of *Micromeria* Benth. (Lamiaceae) in Tenerife (Canary archipelago). *Journal of Biogeography* 41:1871–1882.
9. Puppo P. 2014. Revision of the *Calceolaria tripartita* s. l. species complex (Calceolariaceae) using multivariate analyses of morphological characters. *Phytotaxa* 167:61–78.
8. Curto M, L Tembrock, P Puppo, M Nogueira, MP Simmons, H Meimberg. 2013. Evaluation of microsatellites of *Catha edulis* (qat; Celastraceae) identified using pyrosequencing. *Biochemical Systematics and Ecology* 49:1–9.
7. Puppo P, P Novoa. 2012. Revisión de la Sección *Calceolaria* (Calceolariaceae) en Chile. *Gayana Botánica* 69:275–285.
6. Curto M, P Puppo, D Ferreira, M Nogueira, H Meimberg. 2012. Development of phylogenetic markers from single-copy nuclear genes for multi-locus, species level analyses in the mint family (Lamiaceae). *Molecular Phylogenetics and Evolution* 63:758–767.
5. Bacon CD, GP Johnson, H Meimberg, P Puppo, MP Simmons, WL Wagner. 2011. Development of microsatellites in the Hawaiian endemic palm *Pritchardia martii* (Arecaceae) and their utility in congeners. *American Journal of Botany* e139–e140.2011.
4. Puppo P. 2010. A new species of *Calceolaria* (Calceolariaceae) from disturbed paramos in South Ecuador. *Journal of the Botanical Research Institute of Texas* 4:33–36.
3. Puppo P. 2010. Nuevas distribuciones para 24 especies de *Calceolaria* (Calceolariaceae) en el Perú y primer registro de *Calceolaria perfoliata*. *Revista Peruana de Biología* 17:155–162.
2. Puppo P. 2008. Nueva Especie de *Calceolaria* (Calceolariaceae) del Centro del Perú. *Novon* 18:101–103.
1. Puppo P. 2006. El género *Calceolaria* (Calceolariaceae) en el departamento de Lima-Perú. *Revista Peruana de Biología* 13:85–93.

Encyclopedia Entries

- 2015 Several entries for the *Encyclopedic Dictionary of Madeira*. Agência de Promoção da Cultura Atlântica, Madeira, Portugal: Biologia Marinha; Bocage, José Vicente Barbosa du; Busk, George; Centro Treino Mar; Companhia de Pescarias; Günther, Albert; Hartung, Georg; Heberden, Thomas; Heer, Oswald; Ogilvie-Grant, William Robert; Oppenheim, Paul; Topografia Marinha; Zimmermann, Carlos.

Articles in Societal Magazines

- 2011 Puppo P. Jardim Botânico de Madeira. *Quepo* 25:6–9.
 2011 Puppo P., PL Pérez de Paz, H Meimberg. Suculentas de Tenerife, Canarias. *Quepo* 25:62–70.

Technical Reports

- 2018 Paupério J, N Fonseca, B Egeter, M Galhardo, S Ferreira, F Oxelfelt, S Aresta, F Martins, V Mata, J Veríssimo, P Puppo, JC Pinto, C Chaves, A Garcia-Raventós, S Peixoto, LP da Silva, S Vasconcelos, P Gil, L Khalatbari, S Jarman, P Beja. Deliverable 4.4 (D4.4): Protocol for next-gen analysis of eDNA samples, EnMetaGen project (Grant Agreement No 668981). European Union Horizon 2020 Research & Innovation Programme – H2020- WIDESPREAD-2014-2. DOI: 10.5281/zenodo.2586885
 2018 Ferreira S, P Puppo. Relatório de identificação genética de baratas (Insecta, Blattodea) encontradas em mercadoria por códigos de barra de DNA (DNA Barcode). CIBIO/InBIO – ICETA.

FUNDING

- 2020 Faculty Summer Research Award, Marshall University (USD 2,000)
 2018 Portuguese Foundation for Science and Technology (FCT) (EUR 239,287). Project: Ask the Plants: Assessing pollinator’s identity and frequency in crops using metabarcoding (PI). *Recommended but not funded due to budgetary constraints.*
 2014 LABEX TULIP, Full support for attending 3rd TULIP Summer School, Toulouse, France
 2011 Student Travel Grant (USD 300), ASPT, St. Louis, MO, USA
 2011 Ph.D. Scholarship (EUR 59,390), Portuguese Foundation for Science and Technology (FCT), University of Porto, Porto, Portugal (Apr 2011– Mar 2015)
 2010 European Distributed Institute of Taxonomy (EDIT), Full support for attending EDIT Summer School 2010, Madeira, Portugal
 2009 Portuguese Foundation for Science and Technology (FCT) (EUR 117,878, during 2010 – 2013). Project: Comparing the Mechanisms of Biological Invasion with Natural Colonizations on Archipelagos: Analysis of geneflow and admixture in the species complex of *Micromeria* (Lamiaceae) from the Canary Islands and Madeira (Member of the research team).
 2008 Wildlife Conservation Fellowship, Whitney R. Harris World Ecology Center - University of Missouri-St. Louis and CCSD - Missouri Botanical Garden, St. Louis, MO, USA (Jan – May)
 2007 E. Desmond Lee Scholarship in Botanical Studies (USD 500), University of Missouri-St. Louis, St. Louis, MO, USA
 2007 Jane Harris Scholarship in Tropical Botany (USD 2500), Whitney R. Harris World Ecology Center - University of Missouri-St. Louis, St. Louis, MO, USA
 2006 Fulbright Commission-Lima Advising Center Scholarship, Fulbright Commission, Lima, Peru (Aug 2006 – May 2008)
 2006 Red Latinoamericana de Botánica (RLB), Full support for attending the course Biología de la Conservación, Sololá, Guatemala
 2005 Christensen Fund (ca. USD 2700), Missouri Botanical Garden, MO, USA

INVITED TALKS

- 2019 Combining classical taxonomy with molecular and genomic approaches to understand plant diversifications. Marshall University, Huntington, WV, USA, Jan 28

- 2019 Using morphological, molecular and genomic approaches to understand plant diversifications. Ohio University, Athens, OH, USA, Jan 17
- 2016 Afinal, o homem já não veio do macaco? Genética e evolucionismo: o estado atual de uma grande questão científica. CLEPUL, Faculty of Letters, University of Lisbon, Lisbon, Portugal, Apr 5
- 2016 Geología y el origen de las especies: el ejemplo de *Micromeria* (Lamiaceae) en las Islas Canarias. MOL Herbarium, La Molina National Agrarian University, Lima, Peru, Jan 29
- 2012 Species diversification and island's geological history: genus *Micromeria* (Lamiaceae) in Tenerife. Dpto. Biología Vegetal (Botánica), University of La Laguna, Tenerife, Spain, Jun 20

DEPARTMENTAL TALKS

- 2018 From islands to prairies: Studying the factors that influence plant diversification patterns. North Dakota State University, Fargo, ND, USA, Sep 14
- 2014 How geology affects diversification in insular species: the case of *Micromeria* (Lamiaceae) in Tenerife (Canary Islands). CIBIO, University of Porto, Vairão, Portugal, Jun 13

SELECTED RECENT PRESENTATIONS (T^Talk, P^Poster)

- 2021 ^TPuppo P, L Thompson. Advocating the value of Herbarium collections beyond botanical collections: partnering with archivists to rediscover the historical value of Marshall University Herbarium. Symposium of the Society of Herbarium Curators, *Botany 2021*. Jul 19–23 [Online due to COVID-19]
- 2020 ^TPuppo P, M Curto, H Meimberg. Geology and inter-island colonization shape the diversification of *Micromeria* Benth. (Lamiaceae) in the Canary Islands. *Botany 2020*. Jul 27–31 [Online due to COVID-19]
- 2019 ^TMeimberg H, M Curto, ^PPuppo. Chloroplast haplotypes analysis of Canary Island *Micromeria* indicate inter-island colonization as a factor to explain genetic diversity patterns. *Island Biology 2019*. La Réunion, France, Jul 8–13
- 2018 ^TPuppo P, L Di Santo, J Hamilton. The role of polyploidy in evolutionary niche divergence across the range of *Geum triflorum* Pursh. *Botany 2018*. Rochester, MN, USA, Jul 21–25
- 2016 ^TMeimberg H, M Curto, ^PPuppo. Hybridization to explain the diversification pattern of island taxa: using codominant markers to investigate the “surfing syngameon” and alternative hypotheses in *Micromeria* (Lamiaceae). *Island Biology 2016*. Azores, Portugal, Jul 18–22

MENTORING | ADVISING EXPERIENCE

- Marshall University**, Huntington, WV
 Adviser: 1 MS and 1 MA students in Biological Sciences Spring 2020 – Present
 Committee Member: 3 MS and 1 MA
 Supervisor: 3 Undergraduate researchers
- North Dakota State University**, Fargo, ND
 Mentor: 1 high school student, North Dakota's Governor's School Summer 2018
- University of Porto**, Campus Agrario, Vairão, Portugal
 Supervisor: various students, visiting fellows and technical staff in the laboratory 2009 – 2018

TEACHING EXPERIENCE

- Marshall University**, Huntington, WV
 Instructor: Principles of Biology (BSC 121) Fall 2020, Spring 2021, Fall 2021
 Instructor: Plant Taxonomy (BSC 416, BSC 516) Spring 2020

North Dakota State University , Fargo, ND	
Instructor: General Ecology (BIOL 364)	Fall 2019
Instructor: Evolution (BIOL 359)	Spring 2019
Instructor: Antibiotic Drug Discovery (BIOL 270)	Spring 2019
University of Porto , Campus Agrario, Vairão, Portugal	
Teaching Assistant: Molecular Methods (Laboratory)	Jan 2011

INVITED LECTURES

Universidad del Cauca , Popayán, Colombia	
Lecture on Speciation, Ecology Course, Dept. of Biology	Oct 28, 2020

OUTREACH | SCIENCE DISSEMINATION

North Dakota, USA

Instructor for the NATURE Sunday Academy Program	Fall 2018
Giving a class on Adaptation and Climate Change to high school students, one Sunday a month at different tribal colleges in ND	

Portugal

Colina Club, Braga, Portugal	2016 – 2017
Invited several times to talk to elementary and high school girls about evolution	
Cedros School, Gaia, Portugal	2011, 2014, 2016
Invited speaker during Science week	

PROFESSIONAL SERVICE

Editor

Topic Editor — Plants MDPI journal (Spring 2021 – Present)

Reviewer

Grants — Society of Herbarium Curators Students Grants (Spring 2020)

Journals — *Annales Botanici Fennici*; *Applications in Plant Sciences (APPS)*; *Biologia*; *Botanical Journal of the Linnean Society*; *Caryologia*; *Conservation Genetics Resources*; *Genetica*; *Nordic Journal of Botany*; *Novon*; *Phytotaxa*; *Plant Molecular Biology Reporter*; *PLOS ONE*; *Scientific Reports*

Book chapters — *Calceolariaceae*. In: Jørgensen PM, MH Nee. SG Beck (eds.) 2014. *Catálogo de las Plantas Vasculares de Bolivia*, *Monographs in Systematic Botany from the Missouri Botanical Garden* 127(1–2): i–viii, 1–1744. Missouri Botanical Garden Press, St. Louis, USA.

— *Calceolariaceae* endémicas del Perú. In: León B et al. (eds.) 2006. *El libro rojo de las plantas endémicas del Perú*, *Revista Peruana de Biología*, Número especial 13(2): 220–236.

Others

Encyclopedic Dictionary of Madeira, Agência de Promoção da Cultura Atlântica, Madeira, Portugal. Coordinator of the Marine Science entries; revision and editing of manuscripts; translation of entries Portuguese – English (2016)