

ANTONIO R. CASTILLA

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EDUCATION

- 2017 – present** **FCT Postdoctoral Fellow. Centre for Applied Ecology “Prof. Baeta Neves”. Instituto Superior de Agronomia (ISA).**
(Advisors: Jose Fedriani)
- 2016 – 2017** **Postdoctoral Researcher. Northern Arizona University**
(Advisors: Kristen Waring and Richard Sniezko)
- 2012 – 2016** **Postdoctoral Researcher. University of Texas at Austin**
(Advisor: Shalene Jha)
- 2012** **Ph.D., University of Seville**
(Advisors: Conchita Alonso and Carlos M. Herrera)
- 2005** **B.Sc., University of Seville**
(Advisors: Enrique Figueroa and Jesús Castillo)

RESEARCH INTERESTS

Effects of habitat fragmentation on the gene flow among plant populations – conservation of genetic connectivity among plant populations across human-altered landscapes.

Statistical modeling of dispersal processes within spatially structured plant populations – implications of the spatial distribution of individuals within populations for the maintenance of the dispersal processes and genetic diversity within plant populations.

Impacts of global change on the local adaptation of plants to geographically variable biotic interactions – geographic variation in biotic interactions across plant distribution ranges and their implications for the conservation and the evolution of plant species.

GRANTS

- 2017 - 2023 Portuguese national funding agency for science, research and technology (FCT) Postdoctoral Grant.
- 2016 - 2017 The role of density-dependent processes on the reproduction of native trees. PI: Antonio R. Castilla. Funding source: Texas Ecolab Program.
- 2009 National Research Council of Spain Grant for Short Stays in Abroad Labs.
- 2007 – 2011 National Research Council of Spain Pre-doctoral Grant for Thesis Research.
- 2006 - 2007 National Research Council of Spain Grant for Scientific Training.
- 2004 - 2005 Spanish Ministry of Education and Science Grant for research assistance.

SCIENTIFIC PUBLICATIONS

(*) indicates students under my supervision

- Castilla AR**, Pope N*, Jaffé R, Jha S. 2016a. Elevation, not deforestation, promotes genetic differentiation in a pioneer tropical tree. *PLoS One* 11: e0156694
- Castilla AR**, Alonso C, Herrera CM. 2016b. To be or not to be better pollinated: differences between sex morphs in marginal gynodioecious populations. *Special Issue: "The Ecology and Evolution of Pollen Performance" American Journal of Botany* 103: 388-395.
- Castilla AR**, Pope N*, Jha S. 2016c. Positive density-dependent reproduction regulated by local kinship and size in an understory tropical tree. *Annals of Botany*, 117: 319-329.
- Jaffé R, **Castilla AR**, Pope N*, Imperatriz-Fonseca VL, Metzger JP, Arias MC, Jha S. 2015a. Landscape genetics of a tropical rescue pollinator. *Conservation Genetics*, 17: 267-278.
- Castilla AR**, Alonso C, Herrera CM. 2015b. Sex-specific phenotypic selection and geographic variation in gender divergence in a gynodioecious shrub. *Plant Biology* 17: 186-193.
- Castilla AR**, Alonso C, Herrera CM. 2013. Herbivory at marginal populations: consequences for maternal fitness and vegetative differentiation. *Acta Oecologica* 49: 32-38.
- Castilla AR**, Wiegand T, Alonso C, Herrera CM. 2012a. Disturbance-dependent spatial distribution of sexes in a gynodioecious understory shrub. *Basic and Applied Ecology* 13: 405-413.

Castilla AR, Alonso C, Herrera CM. 2012b. Genetic structure of the shrub *Daphne laureola* across the Baetic Ranges, a Mediterranean glacial refugium and biodiversity hotspot. *Plant Biology* 14: 515-524.

Castilla AR, Alonso C, Herrera CM. 2011. Exploring local borders of distribution in the shrub *Daphne laureola*: individual and populations traits. *Acta Oecologica* 37: 269-276.

CONTRIBUTION TO SCIENTIFIC MEETINGS AND CONFERENCES

(*) indicates students under my supervision

Castilla AR, Snieszko R, Waring K, Cushman S, Eckert AJ, Flores L, Still C, Wehenkel C, Whipple A, Wing M, Kolb TE, Goodrich BA. 2016. Sustaining southwestern white pine by combining experimental work and genomic tools. Symposium “Application of Genomics Technologies to Understand and Manage Forest Trees, and Associated Organisms, in Changing Environments”. *Natural Areas Meeting. California (USA)*.

Wroblewski A*, O’Connell M*, **Castilla AR**, Jha S. 2015. Fruiting together? Influence of the conspecific neighborhood. *12th Annual Integrative Biology Graduate Research Symposium*. University of Texas at Austin.

Castilla AR, Rodriguez MF*, O’Connell M*, Trevino L, Jha S. 2015. Pollinator species-specific contribution to pollen-mediated gene flow. PIB luncheon. University of Texas at Austin.

Castilla AR, Rodriguez MF*, O’Connell M*, Trevino L, Jha S. 2015. Pollinator species-specific contribution to reproduction in tropical trees. *100th Annual Meeting of Ecological Society of America (ESA)*. Baltimore (USA).

Rodriguez MF*, **Castilla AR**, Jha S. 2014. Pollinator-plant species specificity as it relates to viable seed production and level of disturbance. *99th Annual Meeting of Ecological Society of America (ESA)*. Sacramento (USA).

Castilla AR, Jha S, Pope N*. 2014. Individual and neighborhood effects on tropical tree pollination. *99th Annual Meeting of Ecological Society of America (ESA)*. Sacramento (USA).

Castilla AR, Jha S, Santos A*. 2013. Towards an improved knowledge of species-specific pollinator movement and efficiency. *98th Annual Meeting of Ecological Society of America (ESA)*. Minneapolis (USA).

Castilla AR, Alonso C, Herrera CM. 2008. Variation in the size of plants and the reproductive success in central and peripheral populations of *Daphne laureola* L. *22nd Annual Meeting of Scandinavian Association for Pollination Ecologists (SCAPE)*. Kaupanger (Norway).

Castilla AR, Alonso C, Herrera CM. 2007. Connecting micro and macroevolution in plants: selection mosaics by animals on borders of distribution. *Doñana Biological Station. Molecular Ecology Laboratory Conferences. Seville (Spain)*.

TEACHING EXPERIENCE

- June 2017 **OTS graduate fundamentals course, Tropical Biology: An Ecological Approach?** – Organization for Tropical Studies – Invited Professor in GIS analysis.
- May 2015 **Advances in Plant Systematics Guest-Lecturer** – University of Texas at Austin – Instructor in reproductive biology of tropical trees
- March 2015 **Conservation Biology Guest-Lecturer (BIO 384K)** - University of Texas at Austin – Instructor in foraging pollinator ecology
- November 2014 **Introduction to Biological Statistics workshop Guest-Lecturer** – University of Texas at Austin– Instructor in landscape genetics
- November 2013 **Ecology Guest-Lecturer (BIO 373)** – University of Texas at Austin – Instructor in mutualistic interactions
- September 2013 **Conservation Biology Guest-Lecturer (BIO 384K)** – University of Texas at Austin– Instructor in conservation ecology in tropical regions
- November 2012 **Ecology Guest-Lecturer (BIO 373)** – University of Texas at Austin – Instructor in mutualistic interactions

LANGUAGES

Spanish, English.

OUTREACH ACTIVITIES

- 2016 **Research mentor for middle-school students.** Program Shadow a scientist, University of Texas at Austin
- 2013 – 2016 **Research mentor for high-school students from historically underrepresented groups (economic, gender, ethnic, and cultural) in biology.** University of Texas at Austin and David Crocket High School program
- 2012 – 2016 **Undergraduate Research and Mentoring Program.** University of Texas at Austin
- 2004 **Field assistant volunteer.** Doñana National Park, Spain

PROFESSIONAL ACTIVITIES

Reviewer:

The American Naturalist
American Journal of Botany
Agriculture, Ecosystems and Environment
Plant Biology
Axios
Plant Ecology and Diversity