

Miguel Gómez Llano
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Professional Appointments

2020-present. Postdoctoral fellow. Department of Biological Sciences, University of Arkansas

2018-2020. Postdoctoral researcher. Department of Biology, Lund University

2017-2018. Visitor researcher. Department of Natural Sciences, Manchester Metropolitan University

Education

2014-2018. Ph.D. Organismal and Evolutionary Biology. The University of Manchester

2011-2013. M.Sc. Ecology. Autonomous University of Madrid

2004-2009. B.A. Biology. National Autonomous University of Mexico (UNAM)

Published Articles

* Highlights undergraduate researchers

Gómez -Llano, M., Germain, R., Kyogoku, D., McPeck, M. and A. Siepielski. 2021. When ecology fails: sexual selection as a species coexistence mechanism. *TREE* 36 (7): 610-622

Gómez -Llano, M., Scott, E.* , and Svensson, E. 2021. The importance of pre- and postcopulatory sexual selection in adaptation to increasing temperatures. *Current Zoology* 67 (3): 321-327

Svensson, E., **Gómez-Llano, M.**, and J. Waller. 2020. Natural and sexual selection on phenotypic plasticity favour thermal canalization. *Proceedings of the National Academy of Sciences* 117 (47): 29767-29774

Gómez -Llano, M., Narasimhan, A.* , and Svensson, E. 2020. Parasites load reveal condition-dependent sexual selection for local adaptation in the wild. *The American Naturalist* 196(3)
-Invited to talk about this research in "Explein mi" radio show

Svensson, E., Goedert, D., **Gómez -Llano, M.**, Spagopoulou, F., Nava-Bolaños, A., and Booksmythe, I. 2018. Sex differences in local adaptation: what can we learn from reciprocal transplant experiments? *Phil. Trans. R. Soc. B* 373: 20170420

Gómez -Llano, M., Bench, H.* , and Svensson, E. 2018. Ecology relaxes sexual conflict: heterospecific males reduce sexual harassment and increase female survival. *Evolution* 72(4): 906-915

Svensson, E., **Gómez -Llano, M.**, Bench, H. and Rivas, A. 2018. Frequency dependence opposes ecological drift in spite of niche similarity of interaction species. *The American Naturalist* 191(6): 691-703
*Highlighted in 'Science Daily'

Gómez -Llano, M., Navarro-López, E. & Gilman, T. (2016). The coevolution of sexual imprinting by males and females. *Ecology and Evolution* 6(19): 71131-7125

Llusia, D., **Gómez, M.**, Penna, M. & Márquez, R. 2013. Call Transmission Efficiency in Native and Invasive Anurans: Competing Hypotheses of Divergence in Acoustic Signals. *PloS ONE*, 8(10): e77312

Book Chapters

Siepielski, A., **Gómez -Llano, M.**, and Hasik, A. Accepted. Evolutionary community ecology of Odonates. In: *Dragonflies & Damselflies. Model organisms for ecological and evolutionary research. 2nd ed.*

Grether, G., Siepielski, A., and **Gómez -Llano, M.** Accepted. Ecological differentiation, interference, and coexistence in Odonates. In: *Dragonflies & Damselflies. Model organisms for ecological and evolutionary research. 2nd ed.*

Siepielski, A., Boys, W., Bried, J., **Gómez -Llano, M.**, Lanzer, T. and S. Tye. 2021. Insect species coexistence and conservation amidst global change. In: *Imperiled: The Encyclopedia of Conservation*. Elsevier

Gómez -Llano, M. and B. Velarde. 2019. Environmental public policies and citizenship. In: *Citizenship and Environment in Mexico*. El Colegio de la Frontera Norte.
*In Spanish

Manuscripts in review (available upon request)

Gómez -Llano, M., Nilén, S.*, Moodie, I.*, and E. Svensson. Sexual conflict promotes species coexistence through negative frequency selection. *Ecology Letters* (second round of review). Available on bioRxiv (DOI: 10.1101/2021.03.08.434376)

Siepielski, A., **Gómez -Llano, M.**, and M. McPeck. Environmental conditions during development affect sexual selection through trait-fitness relationships. *The American Naturalist* (second round of review)

Grants & Awards

2019 - British Ecological Society. Travel grant (\$650)

2018 - Royal Physiographen Society. Research grant (\$17,000)

2018 - Olle Engqvist Byggmästare Foundation. Postdoctoral scholarship (\$62,300). Granted to PI

2014 - National Environmental Research Council (UK). Doctoral training studentship (\$66,580). Granted to PI

2009 - Dr. Gustavo Baz Prada. National Autonomous University of Mexico Award

Teaching and Mentoring

- Mentoring Aaditya Narasimhan. *Indian institute of Science Education and Research*. 2019 (Now PhD student in the University of Zurich)
*Work published in *The American Naturalist*
- Eve Scott. *The University of Manchester*. 2019 (Now Masters student in Sheffield University)
*Work published in *Current Zoology*
- Iain Moodie. *University of Stirling*. 2019 (Now Masters student in the University of Montpellier)
*Work currently in review in *Ecology Letters*
- Sofié Nilén. *Lund University*. 2018 (Now Master student in Lund University)
*Work currently in review in *Ecology Letters*
- Hanna Bensch. *Lund University*. 2017 (Now PhD student in Kalmar University)
*Work published in *The American Naturalist* and *Evolution*
- Rory Beresford. *The University of Manchester*. 2016 (Now PhD student in München University)
- Teaching *Field course in Alpine ecology and animal behaviour*. The University of Manchester. 2017
Animal behaviour South Africa field course. The University of Manchester. 2015-2017
Experimental design module. The University of Manchester. 2016
Developmental Biology. The University of Manchester. 2014-2016

Presentations

- Invited talks Manchester Metropolitan University. 2017
- Talks American Naturalist stand-alone annual meeting. 2021
Lund University. 2018
ESEB. 2017
British Ecological Society Annual Meeting. 2016
Lund University. 2015
- Posters ESEB. 2019
Talking Evolution, Max Plank Institute for Evolutionary Biology. 2018
Evolution in Sweden. 2016
Postgraduate conference, University of Manchester. 2015

ESEB. 2015

Working Groups and Professional Service

Working group	European Society for Evolutionary Biology Special Topic Network: Linking Local Adaptation and Sex Differences (<i>Coordinated by Hanna Kokko, Florence Debarre, Tim Connallon and Erik Svensson</i>)
Professional service	Proceedings of the Royal Society: B. (Preprint Editorial Office) The American Naturalist (Foreign abstract editor) British Ecological Society (Grant reviewer) National research System, Mexico (Evaluator) Xishuangbanna Tropical Botanical Garden (External reviewer)
Reviewer	Evolution, Proc. R Soc. B, Journal of Evolutionary Biology, Journal of Animal Ecology, OIKOS, Ecology and Evolution, Animal Behaviour, Ecological Research, Functional Ecology
Workshops	Using phylogenetic trees to study trait evolution and perform comparative analyses. Lund University. 2018 Evolution of Mating Systems. Konnevesi Research Station, University of Jyväskylä. 2014 Introduction to mathematical modelling for the environmental and biological sciences. University of Stirling. 2014 Using Geiger, Phytools, and other Computational Tools to Study Macroevolution on Phylogenies. Transmitting science. 2018 Advancing in statistical modelling for evolutionary biologists and ecologists using R. PR Statistics. 2017