

SHAUNA L. PRICE

Field Museum of Natural History • Department of Science and Education
Division of Insects • 1400 S. Lake Shore Dr.
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EDUCATION

- 2011 Ph.D, Biology, University of California, Los Angeles (UCLA)
2001 B.S., Zoology, The Ohio State University

PROFESSIONAL APPOINTMENTS

- 2015-present Postdoctoral researcher, Department of Science and Education, Field Museum of Natural History
2012-2015 Postdoctoral researcher, Department of Biological Sciences, The George Washington University
2012-present Senior Research Fellow, Center for Tropical Research, UCLA
2009-2011 Undergraduate Mentor, Undergraduate Research Center, UCLA
2010 Undergraduate Writing Tutor, Undergraduate Research Center, UCLA
2004-2012 Research Associate, Center for Tropical Research, UCLA
2001-2003 Research Technician, Department of Ecology and Evolutionary Biology, University of Kansas

PUBLICATIONS

- Price, SL, Etienne, RS, & Powell, S. 2016. Ecological opportunity drives congruent patterns of diversity and disparity in a continental ant radiation. *Evolution* 70, 903-912.
- Price, SL, Powell S, Kronauer, DJC, Tran, LAP, Pierce, NE, & Wayne, RK. 2014. Renewed diversification is associated with new ecological opportunity in the Neotropical turtle ants. *Journal of Evolutionary Biology* 27, 242-258.
- Price, SL. 2011. Patterns of evolution, diversification, biogeography and genetic variation in the widespread Neotropical ant genus *Cephalotes*. Ph.D. thesis, UCLA.
- Cafaro, MJ, Poulsen, M, Little, AEF, Price, SL, Gerardo, NM, Wong, B, Stuart, AE, Larget, B, Abbot, P & Currie, CR. 2011. Specificity in the symbiotic association between fungus-growing ants and protective *Pseudonocardia* bacteria. *Proceedings of the Royal Society B: Biological Sciences* 278, 1814-1822.
- Gerardo NM, Currie, CR, Price, SL & Mueller, UG. 2004. Exploiting a mutualism: parasite specialization on cultivars within the fungus-growing ant symbiosis. *Proceedings of the Royal Society of London Series B* 271, 1791-1798.
- Solomon, SE, Mueller, UG, Schultz, TR, Currie, CR, Price, SL, da Silva-Pinhati, ACO, Bacci, M & Vasconcelos, H. 2004. Nesting biology of the fungus-growing ant *Mycetarotes emery* (Attini, Formicidae). *Insectes Sociaux* 51, 333-338.
- Price, SL, Murakami, T, Mueller, UG, Schultz, TR & Currie, CR. 2003. Recent findings in fungus-growing ants: evolution, ecology and behavior of a complex microbial symbiosis. In: Genes, Behavior, and Evolution of Social Insects. Hokkaido University Press, Sapporo.

CONFERENCE PRESENTATIONS

- Price, SL & Powell, S. 2016. The evolution of a morphologically and ecologically specialized soldier caste in a social insect lineage. 2016 SACNAS – National Diversity in STEM conference.
- Price, SL & Moreau, CS. 2016. Microbial diversity and distribution within *Cephalotes atratus*, a widespread Neotropical ant host. 2016 XXV International Congress of Entomology.
- Price, SL & Powell, S. 2016. The evolution of a morphologically and ecologically specialized soldier caste in a socially complex lineage. Evolution 2016.
- Price, SL, Powell, S & Kronauer, DJC. 2015. The evolution of specialized castes: testing a classic hypothesis using the turtle ants. 63rd Annual Meeting of the Entomological Society of America.
- Price, SL & Powell, S. 2015. The turtle ants: understanding the diversification of a socially complex lineage and its associated microbes. The Multiple Dimensions of Biodiversity Symposium. Evolution 2015.
- Price, SL. 2015. Ecological opportunity triggers a congruent burst of lineage and phenotypic diversification in a Neotropical ant lineage. Society for Systematic Biologists 2015 Standalone Meeting.
- Price, SL. 2014. The “dry diagonal” of South America as a driver of ecological diversification in turtle ants. Evolution 2014.
- Price, SL, Kronauer, DJC, Wayne, RK, Tran, LAP & Powell, S. 2012. Ecological opportunity and patterns of diversification in Neotropical turtle ants. North American Section of the International Union for the Study of Social Insects.
- Price, SL, Kronauer, DJC, Wayne, RW, Tran, LAP & Powell, S. 2011. Patterns of evolution, diversification and historical biogeography in the speciose Neotropical ant genus *Cephalotes*. Evolution 2011.
- Price, SL, Tran, LAP & Wayne, RK. 2010. Patterns of diversification in the Neotropical ant genus *Cephalotes*. XVI International Congress of the International Union for the Study of Social Insects.
- Price, SL, Tran, LAP & Wayne, RK. 2009. Evolution and diversification in the Neotropical ant genus *Cephalotes*. Evolution 2009.
- Price, SL, Tran, LAP & Wayne, RK. 2008. A phylogeographic analysis of the Neotropical ant *Cephalotes atratus*. Evolution 2008.
- Tran, LAP, Price, SL & Wayne, RK. 2008. A preliminary molecular phylogeny of the Neotropical ant genus *Cephalotes*. UCLA Dept. of EEB 11th Annual Research Symposium.
- Price, SL, Tran, LAP & Wayne, RK. 2007. Preliminary phylogeographic analysis of the Neotropical ant *Cephalotes atratus*. 55th Annual Meeting of the Entomological Society of America.
- Price, SL, Gerardo, NM & Currie, CR. 2003. Preliminary evidence of a stingless bee-stinkhorn fungus mutualism. 4th International Symbiosis Society Congress.
- Price, SL, Gerardo, NM & Currie, CR. 2002. Preliminary evidence of a stingless bee-stinkhorn fungus mutualism. XIV International Congress of the International Union for the Study of Social Insects.

TEACHING

Instructor

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| Summer 2016 | Evolutionary Biology workshop for interns, Field Museum |
| 2009-2011 | Preparation for Teaching Biology in Higher Education, Dept. of Ecology and Evolutionary Biology (EEB), UCLA [3 times] |
| 2009-2011 | Preparation for Teaching Biology in Higher Education, Dept. of Molecular, Cell and Developmental Biology, UCLA [4 times] |

Teaching Assistant

2012 Evolution, UCLA
2012, 2005 Life Sciences 1, Ecology and Evolution, UCLA [2 times]
2010, 2004 Conservation Biology, UCLA [2 times]
2007, 2005 Tropical Ecology, UCLA [2 times]
2006 Field Ecology, UCLA
2006, 2005 Introduction to Ecology and Behavior, UCLA [2 times]

Guest Lecturer

2015 Title: Adaptive diversification in turtle ants, Associated Colleges of the Chicago Area biology seminar
2005-2009 Title: The ecology and natural history of fungus-growing ants, UCLA Tropical biology course [4 times]
2005-2007 Title: Tropical Social Insects, UCLA Tropical Ecology course [2 times]
2006 Title: Insect-microbe symbioses, UCLA Freshman seminar

GRANTS, FELLOWSHIPS AND AWARDS

Research Grants

2015-present NSF Dimensions of Biodiversity, Senior Personnel, Title: Identifying how the ecological and evolutionary interactions between host and symbiont shape holobiont biodiversity

Academic Funding and Awards

2015 Travel Grant, Society for the Study of Evolution, presenter at The Multiple Dimensions of Biodiversity Symposium
2015 Travel Grant, Society for Systematic Biology Standalone Meeting
2008-2011 Travel Grant, UCLA Dept. of EEB [4 times]
2010, 2006 Quality of Graduate Education Fellowship, UCLA Dept. of EEB [2 times]
2009 Bartholomew Award for Field Biology, UCLA Dept. of EEB
2006-2009 GAANN Fellowship, US Dept. of Education, stipend & research funds [3 times]
2009, 2005 Summer Fellowship, UCLA Dept. of EEB [2 times]
2009 Lewis and Clark Fund Grant, the American Philosophical Society
2007 Tinker Field Research Grant, UCLA Latin America Center

WORKSHOPS ATTENDED

2015 Computational Biology workshop, Field Museum
2015 Phylogenomics Symposium and Software School, The University of Michigan
2009 Applied Phylogenetics workshop, UC Davis Marine Lab
2009 The past, present and future of ant genomics, Arizona State University
2006 The Ant Course, California Academy of Sciences

EDUCATIONAL OUTREACH

2016 Mentor to 5 undergraduate summer interns in the Moreau lab, Field Museum
2015-present "Member's Night" and "Meet a Scientist" public events, Field Museum
Sept. 2015 Solorio Academy High School, insect collections tour, Field Museum
Apr. 2015 GW Research Days, poster judge
Dec. 2010 Animo Inglewood Charter High School, organized lab tours at UCLA
Dec. 2010 Undergraduate Mentoring in Environmental Biology, Cal State Los Angeles, organized lab tours at UCLA
Apr. 2006 Lawndale Environmental Charter High School, classroom presentations [3 times]

JOURNAL REFEREE

Evolution, Journal of Biogeography, Journal of Evolutionary Biology, Molecular Ecology, PLoS One, Systematic Entomology, Myrmecological News, The American Naturalist, Proceedings of the Royal Society of London B

PROFESSIONAL AFFILIATIONS

Society for Systematic Biology
International Union for the Study of Social Insects
Entomological Society of America
Society for the Study of Evolution
Society of the Advancement of Chicanos/Hispanics and Native Americans in Science
Field Museum Women in Science

BIOMIMICRY AND ARCHITECTURE

Book

Mazzoleni, I & Price, SL. 2013. *Architecture follows nature: biomimetic principles for innovative design*. CRC Press, Boca Raton, FL.

Publications and Conference Presentations

Mazzoleni, I, Molina, R & Price, SL. 2016. Bio-inspired urban futures: Designing adaptive façade networks to reimagine the city ecosystem, Façade Tectonics 2016 World Congress.

Mazzoleni, I & Price, SL. 2016. Mimicking nature's intelligence: biological inspiration in the architectural design process. *Journal of Undergraduate Research Students, University of Puerto Rico* 3, 13-21.

Mazzoleni, I & Price, SL. 2014. Biomimetic Principles for Innovative Design: A conversation with Ilaria Mazzoleni and Shauna Price. Italian Cultural Institute of Los Angeles.

Mazzoleni, I & Price, SL. 2010. Evolution and diversification in the Neotropical ant genus *Cephalotes*. Social Biomimicry: Insect Societies and Human Design, Arizona State University.

Architecture Competition Entries

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| 2015 | Project title: Microbi(h)ome, submission to Laka's "Architecture that Reacts" competition |
| 2009 | Project title: New Centralities - Farming and lifestyle, finalist in Good Magazine's "Redesign Your Farmer's Market" competition |
| 2007 | Project title: Restoring scarred land - an Eco-systemic Approach to Restoring the Salton Sea, finalist in the Royal Institute of British Architects-USA Division's "Building A Sustainable World" competition |

Talks and Lectures

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| Mar. 2013 | panelist, The Nature of Los Angeles: Collectivities, The Los Angeles Chapter of the American Institute of Architects |
| 2005-2012 | guest lecturer and student mentor, Southern California Institute of Architecture Biomimicry course [8 times] |