

Benjamin Goldman-Huertas

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PROFESSIONAL PREPARATION

Harvard University, Cambridge, MA	Biology	B.A. <i>cum laude</i> 2005
The University of Arizona, Tucson, AZ	Ecology and Evolutionary Biology	Ph.D. 2010-present
The University of Arizona, Tucson, AZ	Neuroscience	Minor (Ph.D.) 2012-present

APPOINTMENTS

2014-2015: Teaching Assistant, Ecology and Introductory Biology Lab, The University of Arizona
2013-2014: NSF IGERT Program in Comparative Genomics Fellow, The University of Arizona
2010-2013: NSF Graduate Research Fellow, The University of Arizona
2005-2010: Curatorial Assistant for Lepidoptera, Museum of Comparative Zoology, Harvard University
2004-2005: Research Assistant in systematic botany, Harvard University Herbaria

PUBLICATIONS

- Goldman-Huertas B.**, R.T. Lapoint, R.M. Mitchell, J.G. Hildebrand (In Press) Evolution of herbivory in Drosophilidae linked to loss of behaviors, antennal responses, odorant receptors and ancestral diet. *Proceedings of the National Academy of Sciences USA*.
- Gloss A.D., A.C. Nelson-Dittrich, **B. Goldman-Huertas**, N.K. Whiteman (2013). Maintenance of genetic diversity driven by plant-herbivore interactions. *Current Opinions in Plant Biology*. 16(4): 443-450.
- Russell, J.A., C.F. Funaro, Y.M. Giraldo, **B. Goldman-Huertas**, D. Suh, D.J.C. Kronauer, C.S. Moreau & N.E. Pierce (2012) A veritable menagerie of heritable bacteria from ants, butterflies, and beyond: broad molecular surveys and a systematic review. *PLoS One*. 7(12): e51027.
- Li, J., **B. Goldman-Huertas**, J. DeYoung, J. Alexander III (2012) Phylogenetics and Diversification of *Syringa* Inferred from Nuclear and Plastid DNA Sequences. *Castanea* 77(1): 82-88.
- Ramírez, S.R., T. Eltz, M.K. Fujiwara, G. Gerlach, **B. Goldman-Huertas**, N.D. Tsutsui & N.E. Pierce (2011) Asynchronous diversification in a specialized plant-pollinator mutualism. *Science* 333(6050): 1742-1746.
- Vila, R., C.D. Bell, R. Macniven, **B. Goldman-Huertas**, R.H. Ree, C.R. Marshall, Zs. Bálint, K. Johnson, D. Benyamini & N.E. Pierce (2011) Phylogeny and paleoecology of *Polyommatus* blue butterflies show Beringia was a climate-regulated gateway to the New World. *Proceedings of the Royal Society of London Series B, Biological Sciences* 278(1719):2737-2744.
- Funaro, C.F., D.J.C. Kronauer, C.S. Moreau, **B. Goldman-Huertas**, N.E. Pierce, J.A. Russell (2011) Army ants harbor a host-specific clade of Entomoplasmatales bacteria. *Applied and Environmental Microbiology* 77(1): 346-350.
- Russell, J.A., **B. Goldman-Huertas**, C.S. Moreau, L. Baldo, J.K. Stahlhut, J.H. Werren & N.E. Pierce (2009) Specialization and geographic isolation among *Wolbachia* symbionts from ants and lycaenid butterflies. *Evolution* 63(3): 624-640.
- Russell, J.A., C.S. Moreau, **B. Goldman-Huertas**, M. Fujiwara, D.J. Lohman, N.E. Pierce (2009) Bacterial gut symbionts are tightly linked with the evolution of herbivory in ants. *Proceedings of the National Academy of Sciences USA*. 106(50): 21236-21241.

CONFERENCES

- June 8-12, 2014: **B. Goldman-Huertas**, R.F. Mitchell, R.T. Lapoint, N.K. Whiteman. The Society for Molecular Biology & Evolution Conference, San Juan, PR. Presented poster "Evolution of herbivory in *Scaptomyza* (Drosophilidae) associated with loss of critical yeast volatile receptors."

April 6–9, 2014: **B. Goldman-Huertas**, R.F. Mitchell, R.T. Lapoint, J.G. Hildebrand, N.K. Whiteman. Entomological Society of America Pacific Branch Meeting, Tucson, AZ. Delivered talk “Evolution of herbivory in *Scaptomyza* (Drosophilidae) associated with loss of critical yeast volatile receptors.” Awarded 1st place in PhD I oral presentation competition.

April 3–5, 2014: Deep Genomics Symposium, Tucson, AZ. Presented poster “Evolution of herbivory in *Scaptomyza* (Drosophilidae) associated with loss of critical yeast volatile receptors.”

February 24–March 1, 2013: **B. Goldman-Huertas**, N.K. Whiteman. Gordon Research Conference: Plant-Herbivore Interactions, Ventura, CA. Presented poster “Remodeling of chemoreceptor repertoires associated with a transition to herbivory in drosophilids.”

July 6–10, 2012: **B. Goldman-Huertas**, M. Villalobos, L.A. Oland, N.K. Whiteman. 1st Joint Conference on Evolutionary Biology, Ottawa, Canada. Delivered talk “Molecular evolution of chemoreceptor genes in *Scaptomyza* (Drosophilidae).”

October 2–5, 2011: **B. Goldman-Huertas**, L.A. Oland, N.K. Whiteman. 6th International Symposium on Molecular Insect Science, Amsterdam, The Netherlands. Presented poster “Host-plant specialization and the morphology of the *Drosophila* antennal lobe.”

SYNERGISTIC ACTIVITIES

1. Mentored research by Logan Bernhardt who presented at the 2013 Annual Ecology and Evolutionary Biology Undergraduate Research Poster Session at The University of Arizona.
2. Mentored research by Sammy Dominguez, as part of a research methods course at Tucson Magnet High School from 2011 to 2012 (currently at Northern Arizona University). She received 4th Place at the 2012 Arizona Junior Science and Humanities Symposium for a poster titled “Linking odor and host-seeking behavior in leaf-mining mustard specialists.”
3. Mentored research by Martha Villalobos who presented at the 2011 Annual Ecology and Evolutionary Biology Undergraduate Research Poster Session at The University of Arizona.
4. Supervised museum volunteers at the Museum of Comparative Zoology for a project to image and catalogue its butterfly collection from 2009 to 2010.

PROFESSIONAL AFFILIATIONS

Member: The Society for the Study of Evolution, The American Association for the Advancement of Science, The Genetics Society of America, The Entomological Society of America, The Society for Molecular Biology and Evolution.

COLLABORATORS AND OTHER AFFILIATIONS

Graduate Advisor: Ph.D.: N.K. Whiteman (The University of Arizona)

Doctoral Committee: N.K. Whiteman (major professor), D.R. Papaj, J.G. Hildebrand, L.A. Oland (minor professor)

Undergraduate and High School advisees: Logan Bernhardt (The University of Arizona), Martha Villalobos (The University of Arizona), Sammy Dominguez (Tucson High Magnet School; Northern Arizona University).

HONORS AND AWARDS

2010: National Science Foundation (NSF) Graduate Research Fellow
2011, 2013: The University of Arizona Graduate and Professional Student Council (GPSC) Travel Grant
2011: The University of Arizona Center for Insect Science Travel Grant
2012: Galileo Circle Scholarship Award
2013: Carl Storm Underrepresented Minority (CSURM) Fellowship
2013: NSF Program in Comparative Genomics Fellowship

2014: 1st Place Pacific Branch Entomological Society of America PhD student oral competition

RESEARCH INTERESTS

Neuroethology, genomics, plant-insect interactions, molecular evolution of chemoreceptors, evolution of herbivory and host specificity.