

## Michael E. Roswell

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Rutgers University  
Graduate Program in Ecology & Evolution  
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### EDUCATION

#### Rutgers University

Ph.D. Candidate, Graduate Program in Ecology & Evolution (2014 – present, expected graduation May 2019)  
Adviser: Rachael Winfree

#### Swarthmore College

BA, Majors in Biology and Linguistics, 2011

### GRANTS (\$40,200) & FELLOWSHIPS (\$258,000)

Rutgers Ecology & Evolution Graduate Program Small Grant - \$1,000 – 2016  
Federal Conservation Innovation Grant (CIG) - \$33,000 – 2015 (addendum to existing grant, Next steps in pollinator conservation: operations and maintenance, organic habitat restoration, seed mix choices, and assessing conservation effectiveness. PI M. Vaughn, Co-PI R. Winfree & others)  
Rutgers University Graduate School Conference Travel Award - \$200 – 2015  
Rutgers University SEBS Graduate Pre-Dissertation Award - \$2,000 – 2015  
Rutgers University Graduate School Excellence Fellowship - \$30,000 – 2014  
NSF Graduate Research Fellowship- \$138,000 – 2015-2018  
NSF GAANN Fellowship in Urban Ecology- \$90,000 (*declined*) – 2014  
NY Times Sustainability Grant (awarded to found Swarthmore College Honey Bee Initiative) - \$500 –2009  
Joel Dean Research Fellowship (awarded to conduct linguistics research in Peruvian Amazon) - \$3500 — 2009

### PRESENTATIONS

**Roswell, M.**, D.P. Cariveau, R. Winfree. “The importance of unequal sampling for estimating species richness” (Talk). Annual meeting of the Ecological Society of America, August, 2015  
**Roswell, M.**, D.P. Cariveau, R. Winfree. “Variability reduces effort required to compare site biodiversity” (Poster). Annual meeting of the Ecological Society of America, August, 2014  
Cariveau, D.P., N. Williams, K. Ward, **M. Roswell**, R. Isaacs, E. May, and R. Winfree. “How to assess pollinator restorations efficiently” (Poster). Intl. Conference on Pollinator Biology, Health and Policy, August, 2013  
**Roswell, M.** and J. Harte. “Size matters for detecting spatial patterns of climate-driven competition” (Poster). Annual meeting of the Ecological Society of America, August, 2011

### TECHNICAL PUBLICATIONS

Ward, K., D. Cariveau, E. May, **M. Roswell**, M. Vaughan, N. Williams, R. Winfree, R. Isaacs, and K. Gill. 2014. *Streamlined Bee Monitoring Protocol for Assessing Pollinator Habitat*. Portland, OR: The Xerces Society for Invertebrate Conservation.  
The Munique Talking Dictionary: Linguistics thesis work- an online “talking” lexicon with both Munique- Spanish and Munique-English interfaces. June 2011. Available online at <http://munique.swarthmore.edu>  
Una breve descripción del idioma Munique: Yurimaguas, Peru, August 2009. Available online at [http://www.cabeceras.org/cap\\_mygramatica\\_sep09.pdf](http://www.cabeceras.org/cap_mygramatica_sep09.pdf)  
Audio CD of dialogues in Munique and Spanish. August 2009.

### TEACHING & MENTORING

**Mentees:** Tiffany Bennet\*, Julie Criscione, Andrew Cumming\*, Kurtis Himmler\*, Erin Lowe Elena Suglia, Rosy Tucker\*, Shermila Villanueva\*, Kiya Washington\*, Lucia Weinman, Joseph Zientek\* (*\*Rutgers Undergraduate*)

*Guest lecturer*, "Introduction to Apiculture," *Rutgers University* (Feb. 2017)

*Mentor* to 10 undergrads and technicians: help applying for jobs, fellowships, and graduate school (T.B., J.C., S.V., J.Z., E.S., L.W., K.H., E.L.), preparing for outreach lecture (LW), navigating degree and GPA (A.C., K.W.) (2016-2017)

*Faculty mentor* for R.T., who taught a 1-credit course for first year students. Aided in curriculum and lesson planning. (June-December 2016)

*Guest lecturer*, "Introduction to Environmental Science," *Rutgers University* (Nov. 2016)

*Guest lecturer*, "Plant Diversity and Evolution," *Rutgers University*. Designed and graded new traits and plant diversity assignment (December 2016)

*Mentor* for J.Z.'s Senior Honors Thesis: "Morphological trait matching between bees and flowers drives pairwise interactions" I guided literature review, analytical approach, data wrangling, writing, and presentation through weekly meetings and regular check-ins. (2015-2016)

Designed and graded pollination assignment for "Plant Diversity and Evolution," *Rutgers University* (November 2015)

*Research Mentor* for J.Z., K.H., R.T. Assisted with project design, analysis, and poster presentation. (2014-2015)

*Field Science Educator* at Nature Bridge in Southern California Designed and taught 3-5 day outdoor science courses. Incorporated natural history observation, experimental design exercises, teambuilding, and environmental literacy on backcountry trails (February-June 2014)

*Tutor* of English language, Math, and Biology at Swarthmore College (2007-2011)

## **OUTREACH**

*Luring pollinators for lurid favors* Master Gardeners of Monmouth County. Freehold NJ (Invited Lecture) – February 2017

*What are native bees?* Third grade at Princeton Academy. Princeton, NJ (interactive program)—December 2016

*Wild bees can help with pollination concerns.* New Jersey Agricultural Convention and Trade Show. Atlantic City, NJ. (Invited lecture)—February 2016

*Why Native Bees?* The Native Plant Society of Bergen County, Passaic, NJ. (Invited lecture) — November 2015

*Asking questions about native bees.* Annual meeting of the Native Plant Society of New Jersey. Medford, NJ. (keynote lecture) – November 2014

*Streamlined bee monitoring protocol for assessing pollinator habitat.* Xerxes Society Land Manager training for land managers, Duke Farms, Hillsborough Township, NJ.—June 2014

*Pollinator Biodiversity.* Rutgers Gardens, New Brunswick, NJ. (public lecture, with T. Harrison)— September 2013

*Scientist*, Wondergy Inc. (Led 1-2 hour long interactive science explorations, 1-20 groups/week, with diverse audiences across the Northeast US)—2012-2013

## **SERVICE**

Reviewer for: *Journal of Animal Ecology*; *Natural Areas Journal*; *Rhodora*

New Jersey Junior Science & Humanities Symposium paper reviewer (2015-2017)

*Volunteer*, Shore Bowl regional oceanography competition, *Rutgers University* (2016, Moderator 2017)

*Member*, Board of Directors, Kids on the Hill arts program, Baltimore, MD (2006-2009)

## **PROFESSIONAL DEVELOPMENT**

*Introduction to College Teaching*, *Rutgers University* (January-May 2017)