

Rebecca F. Hazen

Curriculum Vitae

Department of Ecology and Evolutionary Biology

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Professional Preparation

State University of New York at Cortland, *Biology with a minor in Chemistry*

B.S., 2001

Tulane University, *Ecology and Evolutionary Biology*

Current PhD

Candidate

Awards and Distinctions

April 2011, NSF East Asia and Pacific Summer Institute (EAPSI) Orientation Invited Alumni Guest Speaker (Final report to NSF EAPSI was chosen to serve as a model/template for incoming EAPSI Fellows).

Summer 2010, NSF EAPSI Fellowship, including \$5000 + living expenses and airfare for Graduate Research on the origin and dispersal of a new moth species (*Caloptilia* sp.) on a high-profile invasive (*Triadica sebiferum*).

Spring 2008, Award for Excellence in Graduate Student Teaching, Tulane University Department of Ecology and Evolutionary Biology.

Spring 2007, Award for Excellence in Graduate Student Teaching, Tulane University Department of Ecology and Evolutionary Biology.

Spring 2007, RAND Gulf States Policy Institute Award (\$20,000) for graduate research on trends in the diversity of tri-trophic interactions in response to hurricane damage in the Gulf Coast region.

Summer 2005, Consortium of the Americas for Interdisciplinary Science Travel Award (\$1000), funding for Assessment of invasive flora in the Yucatan Peninsula, 2005.

December 2002, Americorps National Civilian Community Corps Education Stipend (\$4725) and award for Most Valuable Team Member.

2000-2001, Member of the Biological Honors Society (Tri-Beta).

Publications

Davis, D., Fox, M., **Hazen, R. 2013**. Systematics and biology of *Caloptilia triadicae*

- (Lepidoptera: Gracillariidae), a new species of leaf-mining moth of the invasive Chinese Tallow tree (*Triadica sebifera* (L.) Euphorbiaceae). *Journal of the Lepidopterists Society*, 67(4): 281-290.
- Dyer, L.A., Walla, T.R., Greeney, H.F., Stireman III, J.O., **Hazen, R.F.** 2010. Diversity of interactions: a metric for studies of biodiversity. *Biotropica*, 42(3): 281-289.
- Dyer, L.A., Wagner, D.L., Greeney, H.F., Smilanich, A.M., Massad, T.J., Robinson, M.L., Fox, M.S., **Hazen, R.F.**, Glassmire, A.E., Pardikes, N.A., Fredrickson, K.B., Pearson, C.V., Gentry, G. and Stireman III, J.O. 2011. Novel insights into tritrophic interaction diversity and chemical ecology using 16 years of volunteer-supported research. *American Entomologist*, 58 (1): 15-19.
- Forister, M.L., Novotny, V., Panorska, A.K., Baje, L., Basset, Y., Butterill, P.T., Cizek, L., Coley, P.D., Dem, F., Diniz, I.R., Drozd, P., Fox, M., Glassmire, A.E., **Hazen, R.F.**, Hrcek, J., Jahner, J.P., Kaman, O., Kozubowski, T.J., Kursar, T.A., Lewis, O.T., Lill, J., Marquis, R.J., Miller, S.E., Morais, H.C., Murakami, M., Nickel, H., Pardikes, N.A., Ricklefs, R.E., Singer, M.S., Smilanich, A.M., Stireman, J.O., Villamarín-Cortez, S., Vodka, S., Volf, M., Wagner, D.L., Walla, T., Weiblen, G.D., and Dyer, L.A. 2015. The global distribution of diet breadth in insect herbivores. *PNAS*: 1423042112v1-201423042.
- Fox, M.S., **Hazen, R.F.**, Wheeler, G.S. and Davis, D.R. 2011. Using Internet Images to Gather Distributional Data for a Newly Discovered Caloptilia Species (Lepidoptera: Gracillariidae) Specializing on Chinese Tallow in North America. *American Entomologist*, 58 (1): 32–35.
- Hazen, R.F.** and Fox, M.S. 2011. A cascading classroom: the benefits of utilizing teachers and students as citizen scientists in research. *American Entomologist*, 58 (1): 11-14.

Professional Meetings

- Hazen, R.F. Pairwise genetic comparisons of an emergent plant-antagonist interaction. Paper presented at: *Entomological Society of America Meeting*; 2014 Nov. 16-19; Portland, OR.
- Hazen, R.F. Geographic variation in the tallow leaf-roller (*Caloptilia triadicae*): Insight into the evolution and emergence of antagonistic interactions. Paper presented at: *Entomological Society of America Meeting*; 2013 Nov. 10; Austin, TX.
- Hazen, R.F. Working with EarthWatch volunteers to expand life history data for caterpillar and parasitoid host ranges. Paper presented at: *Entomological Society of America Meeting*; 2011 Nov. 13; Reno, NV.
- Hazen, R.F. A facilitated introduction? A new specialist herbivore on Chinese tallow. Paper presented at: *Entomological Society of America Meeting*; 2010 Dec 13; San Diego, CA.

Research Appointments

- 2011-2014**, Project coordinator and lead researcher for urban forestry assessments of New Orleans, *USDA/Stockholm Resilience Center, Dr. Wayne Zipperer.*
- 2010**, NSF EAPSI Fellow conducting independent dissertation research, *Wuhan Botanical Garden, China, Dr. Jianqing Ding.*
- 2007-2012**, Project coordinator and lead field researcher for Earthwatch “Caterpillars and Climate Change Project”, *New Orleans, Dr. Lee A. Dyer.*
- 2005-2007**, Research assistant for Biological Diversity and Invasion Laboratory, *Trinity University, San Antonio, Dr. K. Lyons.*
- 2002**, Water quality research technician, Waco, TX Water Department and AmeriCorps NCCC
- 2002**, Field assistant for invasive species management, *Missouri Department of Conservation, The Nature Conservancy, and AmeriCorps NCCC*
- 1999-2001**, Research Assistant in Behavioral and Chemical Ecology Laboratory, *SUNY Cortland, Dr. T.D. Fitzgerald.*
- 1999-2000**, Research Assistant for Plant Genetics Laboratory, *SUNY Cortland, Dr. S.B. Broyles.*

Teaching Experience

- 2007-present**, Graduate Teaching Assistant, *Tulane University, New Orleans, LA.*
Courses taught: Processes of Evolution [EBIO 3080], Ecology [EBIO 4140], Diversity of Life [EBIO 1010], Global Change Biology [EBIO 2050 & 1040], Entomology [EBIO 4430], Marine Biology [EBIO 2100], Botany [EBIO 3590], and Plants and Human Affairs [EBIO 3185]
- 2005-2007**, Botany Laboratory Assistant, *Trinity University, San Antonio, TX.*
- 2003-2004**, Environmental Interpreter and Educator, *Baltimore Woods Nature Center.*
- Summer 2002**, Math and reading tutor (3rd grade), *Missouri public schools, AmeriCorps NCCC.*
- Summer 2000**, Undergraduate teaching assistant for three-week Field Biology course in the Adirondacks, *SUNY Cortland.*

Mentorship and Outreach

- 2012-present**, Mentor and director for six undergraduate research projects in the Molecular Ecology Lab of Dr. Michael J. Blum (Tulane University).
- 2013-present**, Curriculum development, undergraduate teacher training and lead educator for ethnobotany module in the bi-annual Girls in STEM at Tulane University for middle school-aged girls in New Orleans.
- Summer 2014**, Curriculum development and teaching of plant-insect interaction module for Tulane University sponsored science and arts camp for elementary-aged

children at “Studio in the Woods”.

Fall 2013, Co-authored a successful Newcomb Fellowship Grant with undergraduate research assistant, Amber Fessler (a former Earthwatch student).

Fall 2013, Participated in an active-learning and scientific teaching workshop sponsored by the Ecology and Evolutionary Biology Department at Tulane University.

2007-2012, Mentor and educator for the Durfee Foundation Student Challenge Awards Program and the Earthwatch “Live From the Field” teaching fellows program, training high school students and K-12 teachers as citizen scientists through hands-on research immersion experiences in the field and laboratory, Dr. Lee A. Dyer.

November 2011, Presented and assisted with organization of the Citizen Science Symposium at the annual meeting of the Entomological Society of America, and authored and co-authored papers on the importance of utilizing teachers and students as citizen scientists (Dyer et al. 2011, Fox et al. 2011, Hazen and Fox 2011).

2012, Mentor and host to student exchange colleagues (fellow PhD candidates) from East China Normal University (June 2012-present).

2005-2007, Mentor and coordinator for three undergraduate research and writing projects, in the Biological Invasions and Diversity Laboratory of Dr. Kelly Lyons (Trinity University).

University Service

January 2015 – present, Reviewer for *Annals of the Entomological Society*.

2007-2011, Secretary and representative for the Ecology and Evolutionary Biology Graduate group.

2011- present, Tulane Honor Board representative for the School of Science and Engineering.