

Rebecca F. Hazen, PhD

Curriculum Vitae

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Professional Appointments

Professorial Lecturer (August 2018 - present)
American University, *Department of Biology*

Visiting Assistant Professor (August 2016 - May 2018)
Trinity University, *Department of Biology*

Education

Ph.D., December 2015
Tulane University, *Ecology and Evolutionary Biology*
The emergence and evolution of an antagonistic plant-animal interaction
Advisor: Dr. Michael J. Blum

B.S., May 2001
State University of New York at Cortland, *Biology with a minor in Chemistry*

Teaching Experience

August 2018-present, Professorial Lecturer, American University, Washington, D.C.
Courses taught: Introductory Biology Lecture and Lab for non-majors [BIO 100], Introductory Biology Lab for majors [BIO 210], Complex Problems in Urban Ecology [CORE 105], Oceanography [BIO 240], Introduction to Infectious Disease Lab [HLTH 320], Lab for Anatomy and Physiology [BIO 302].

2016-2018, Visiting Assistant Professor of Biology, Trinity University, San Antonio, TX. Courses taught: Special Topics in Invertebrate Biology [BIOL 3491], Senior Seminar Journal Club [BIOL 4201], Evolution [BIOL 3435], Introductory Biology Lab for majors [BIOL 1111].

2007-2015, Graduate Teaching Assistant and Curriculum Developer, 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, Marcellus, NY.

Summer 2002, Math and reading tutor (3rd grade), Missouri public schools, AmeriCorps NCCC.

Summer 2000, Undergraduate Teaching Assistant for Adirondack Field Biology course through SUNY Cortland, Raquette Lake, NY.

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 NSF 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.) specializing 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.

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

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

Publications

Hazen, R.F. Moody, K.N., and Blum, M.J. 2018. Neutral and non-neutral factors shape an emergent plant-antagonist interaction. *Evolutionary Ecology*, 32(2-3): 265-285.

Lewis, J.A., Zipperer, W., Ernstson, H., Bernik, B., **Hazen, R.F.**, Elmqvist, E, Blum, M.J. 2017. Socioecological disparities in New Orleans following Hurricane Katrina. *Ecosphere*, 8(9): e01922.

Hazen, R.F. and Blum, M.J. 2016. Host genetic variation and microenvironment shape an emergent plant-antagonist interaction. *Evolutionary Ecology*, 30(6): 1-18.

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.**, Hrccek, 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.

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., 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.

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.

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.

Pedagogical Training

Spring 2021, Eagle Online Excellence Micro-Course Certification, American University
This short course was designed to expand and enhance inclusive online course design.

March 15, 2021, Workshop: Anti-Racist Pedagogy, Faculty Discussions Series, American University

This workshop defined and analyzed anti-racist pedagogy perspective and best practices for application in the classroom.

February 9, 2021, Workshop: Our New Normal Cannot Be Our Old Normal, American University

This workshop analyzed the vital lessons that have been thrust onto academic institutions and their stakeholders in the wake of the global pandemic and social unrest.

Spring 2020, Online Teaching Certificate, Center for Teaching Research and Learning, American University

I completed a one-on-one training session focused on creating accessible, high-impact online learning content.

May 2019 and 2020, Workshop Series: End of Semester Faculty Teaching Series, Center for Teaching, Research and Learning, American University

This annual series of teaching workshops helps faculty process the lessons from the academic year and plan curriculum strategies for the future.

November 5, 2018, Classroom Observation, Partners in Teaching Program, American University

Dr. Matt Hartings of the Chemistry Department attended my lab lecture and observed the experimental procedures during my Infectious Disease laboratory. This teaching partnership is designed to allow colleagues to provide each other feedback on their teaching classroom and pedagogical techniques.

October 10, 2018, Workshop: Reducing Unconscious Bias in Teaching and Learning: Strategies for Inclusive Pedagogy, Center for Teaching Research and Learning, American University

This workshop described common manifestations of unconscious bias in teaching and learning and explored tools for inclusive pedagogy to recognize and address the impact of bias.

September 25, 2018, Seminar: Classroom Observations and the Evaluation of Teaching, CTRL, MGC 3-5.

This seminar discussed alternatives to traditional SETs, what this approach entails, best practices, and when and how they should be deployed as part of a larger narrative of teaching by a faculty member.

August 2018, 2019, and 2020, Workshop Series: Teaching, Research, and Technology, Center for Teaching Research and Learning, American University

A workshop series focusing on innovative approaches to teaching and research, specially designed to help attendees prepare for the academic year.

Fall 2013, Workshop: Active-Learning and Scientific Teaching, Department of Ecology and Evolutionary Biology, Tulane University

Graduate student training in active learning STEM pedagogy.

Mentorship and Outreach

September 2016-May 2018, Coordinator and Mentor for undergraduate research projects on the urban ecology of benthic invertebrates and factors mediating plant-pollinator interactions in the Department of Biology at Trinity University.

2012-2015, Mentor and director for six undergraduate research projects in the Molecular Ecology Lab of Dr. Michael J. Blum (Tulane University).

2013-2015, 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).

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.

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).

Professional Service

Spring 2021- present, Bioethics of Genetic Engineering, New Course Development for Ethical Reasoning Habits of Mind Core Curriculum, American University

Spring 2021- present, Green Teaching Certification for *Essentials of Biology* and *Urban Ecology* courses, Center for Teaching Research and Learning, American University

Spring 2021- present, Biology Lab Club, American University

March 2021- present, Founding Member, Biology Department Committee on Diversity, Equity, and Inclusion, American University

January 2021- present, College of Arts and Sciences Biology Department Representative to the Faculty Senate, American University

January 2021- present, STEM Merit Awards Committee, American University

Spring 2020- present, Academic Integrity Council, American University

Spring 2020- present, Organizer for Biology Department and CTRL reading group on Diversity, Equity, and Inclusion in STEM, American University

Spring 2020, Urban Ecology, New Course Development for the Complex Problems Core Curriculum, American University

January 2020, Workshop and Panel Discussion Organizer, *Annual Ann Ferren Conference*, American University

August 2019- present, Biology Department Activities Committee, American University

August 2017-May 2018, Faculty Liaison, *Trinity University Faculty and Staff Wellness Committee*.

March 2018, Workshop Organizer and Presenter, *Inclusive Technology Policies in the Classroom*, The Collaborative for Teaching Research and Learning, Trinity University

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

August 2015- present, Reviewer, *Journal of Clinical Outcomes Management*.

2007-2011, Secretary, *Ecology and Evolutionary Biology Graduate group*.

2011- 2015, Honor Board representative, *Tulane University SSE*.

Research Experience

Spring 2016, Research associate for invasive freshwater fish species removal on Oahu, Hawaii, *Tulane University, Dr. M.J. Blum*.

2010-2015, Doctoral Dissertation Research on the Ecology and Evolution of an Emergent Plant-Insect Interaction, *Tulane University, Dr. M.J. Blum*.

2011-2015, Project coordinator and lead field 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.*

Professional Meetings

Knight, S.F., Hazen, R.F. Using a mental obstacle course to engage and elevate learning in an Anatomy and Physiology Laboratory. Poster presentation for: Experimental Biology Meeting; 2020 Apr. 6; San Diego, CA.

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.

References

1. **[Katie DeCicco-Skinner, PhD](#)**, Associate Professor & Dept. Chair, Biology, American University
 - o decicco@american.edu
 - o Office phone: 202-885-2193; Cell phone: 410-218-0516
 - o Katie is my current department chair at American University. She has served as Biology Chair since before I started at AU in Fall 2018.

1. **[Meg Bentley, PhD](#)**, Senior Professorial Lecturer & Lab Director, Biology, American University
 - o mbentley@american.edu
 - o Office phone: 202-885-2196; Cell phone: 857-891-6615
 - o Meg is my immediate teaching mentor at AU. We have collaborated closely on curriculum development and pedagogy since I started at AU in Fall 2018.

1. **[Jonathan King, PhD](#)**, Professor, Biology, Trinity University
 - o jking@trinity.edu
 - o Office phone: 210-999-7232; Cell phone: 210-383-1412
 - o Jonathan was the Department Chair of Biology at Trinity University during my two-year Visiting Assistant Professor appointment from Fall 2016-Spring 2018. We worked collaboratively on the Senior Seminar Course and the Weekly Department Seminar Series.

Student References

1. Yasmine Aziz (ya3277a@student.american.edu)
 - o Yasmine is a former student from my Organismal Biology Lab course at AU in Spring 2019. She is majoring in Neuroscience and serves as the Program Leader for my Urban Ecology course in the Complex Problems Core at American University.

2. Caitlin Haley (caitlin.haley@maine.edu)
 - o Caitlin is a former student from my Oceanography course at American University in Spring 2020, where she found confidence in her identity as a scientist. She is currently studying Marine Science at the University of Maine.

3. Shivani Desai (shivanidesai@my.unthsc.edu)
 - o Shivani was my student in an Invertebrate Biology course at Trinity University in 2017. You can view the final course research projects created

by Shivani and her colleagues at the following link:

<https://sites.google.com/a/trinity.edu/funded-research/proposal-process>

She is currently in her third year of med school at the University of North Texas Health Science Center.