Rebekah Keating Godfrey

rkeatinggodfrey@email.arizona.edu
(802) 881-6694

CURRENT POSITION

University of Arizona — Tucson, AZ
Ph.D. candidate, Graduate Interdisciplinary Program in Neuroscience — 2013 - present

EDUCATION

Indiana University of Pennsylvania — Indiana, PA
MS, Biology; 3.9 GPA — 2012

University of Vermont — Burlington, VT
BS, Biology; 3.62 GPA — 2003

AWARDS AND HONORS

DAAD Short-term Research Fellowship — 2018
Galileo Circle Scholarship — 2017 & 2018
George Perkins Marsh Award in Ecology and Evolution — 2003
Vermont Scholars Award — 1999 - 2003

RESEARCH

Research Assistant, Department of Neuroscience, University of Arizona

July 2015 – present

Conducting PhD research as part of larger project on social insect behavior and brain evolution. Mentor undgraduate and high school students in research projects.

Supervisor: Dr. Wulfila Gronenberg, wulfilag@email.arziona.edu

Research Development Fellow, Office for Research & Discovery, University of Arizona, Tucson AZ

July 2014 – August 2015

Developed and disseminated the weekly Funding Opportunities Announcements and limited solicitation notices to the University of Arizona research community. Assisted with workshop coordination, website updates, and Pivot database trainings.

Supervisor: Dr. Ann McGuigan, (520) 621-0520, amcguigan@email.arizona.edu

Research Assistant, Climate Change Impacts on Pennsylvania Lepidoptera, Indiana University, Indiana, PA

January – June 2013

Conducted literature research and analyzed data collected by the Nuttle laboratory to assess the potential impacts of projected changes in Pennsylvania's climate over the next 50 years on temperate forest Lepidoptera. Used the Climate Change Vulnerability Index developed by Nature Serve to quantify potential threats to specific species.

Supervisor: Dr. Ellen Yerger, Associate Professor, (724) 762-9277, ellen.yerger@iup.edu

Research Assistant, Nuttle Laboratory, Indiana University, Indiana, PA

May 2011 – September 2012

Collected larval Lepidoptera from temperate forest trees as part of experimental bird exclusion study for graduate thesis. Coordinated undergraduate field technicians and volunteers. Organized and managed specimen library comprised of adult and larval specimens, including species identification. Prepared adult and larval tissue samples for DNA barcoding.
Supervisor: Dr. Timothy Nuttle, Principal Investigator, (412) 867-1299, tnuttle@cecinc.com

TEACHING

Science Consultant & Program Assistant, UA Sky School, University of Arizona, Tucson AZ
November 2014 – present
Guide middle and high school students in field-based science projects in Tucson and at the UA Sky Center on top of Mount Lemmon. Work with UA undergraduate students mentoring middle school students in their Southern Arizona Research, Science, and Engineering Foundation (SARSEF) science fair projects. Writing and piloting curricula for UA Sky School's City Program in local public schools.
Supervisor: Rebecca Lipson, Assistant Director of Education, rlipson@email.arizona.edu

Crew Leader, Student Conservation Association, Pittsburgh, PA
July 2007 – August 2007, October 2010 – June 2011, September 2011 – May 2012
Led job skills training sessions and field-based community action projects with small groups of high school students from underserved neighborhoods of Pittsburgh. Projects included environmental education, trail and native plant restoration, and community cleanups.
Supervisor: Lauren George, LEAP Coordinator, (916) 508-9872

Community Sustainability Coordinator, Mt Washington Community Development Corp., Pittsburgh, PA
May 2009 – July 2010
Assisted with establishment and management of urban hillside restoration projects. Coordinated a volunteer program and designed and implemented environmental education programs. Initiated and coordinated farm stand in underserved neighborhood through collaboration with Greater Pittsburgh Community Foodbank. Conducted park promotion through coordination of hikes, festivals, and cleanups. Secured funding for projects through grant writing and business sponsorship or donations.
Supervisor: Dr. Ilyssa Manspeizer, Executive Director, (412) 481-3220 x204

Service Learning Coordinator, Student Conservation Association, City Charter High, Pittsburgh, PA
September 2007 – October 2008
Supported 10th grade science teacher in coordinating service learning opportunities to complement the Science and Sustainability curriculum including the design and implementation of an ecology elective for 11th and 12th grade students. Organized service projects at local farms, community plantings, and watershed organizations for 9th graders. Secured funding for and coordinated the painting of a community mural and garden project by 10th graders in Pittsburgh's Hill District neighborhood.
Supervisor: Dr. Richard Wertheimer (principal) or Casey Wilds (science teacher), (412) 690-2489

Education Program Assistant, Urban Ecology Institute, Boston, MA.
July 2006 – July 2007
Supported Boston area teachers implementing field-based urban ecology curricula in their biology, chemistry, and environmental science courses via field support and teacher workshops. Maintained MS Access database of weekly field visit reports. Maintained and updated website using Dreamweaver and direct html editing. Assisted with curriculum development, coordination of teacher workshops, equipment trainings, and student conferences.
Supervisor: Emily Hoffman, Education Program Director, (617) 552-1313

PUBLICATIONS

Godfrey, RK, Gronenberg W. *In revision*. Brain evolution in social insects – advocating for the comparative approach. J Comp Physio A.

Godfrey RK, Yerger EH, Nuttle TJ. 2018. *Opposing deer and caterpillar foraging preferences may prevent reductions in songbird prey biomass in historically overbrowsed forests*. Ecol Evol. 2018;8:560–571. https://doi.org/10.1002/ece3.3497

Keating R, Yerger E, Nuttle TJ. 2013. *Impacts of Climate Change on Commonly Encountered Forest Lepidoptera of Pennsylvania*. Report prepared for the Pennsylvania Department of Conservation and Natural Resources, 2013 Wild Resource Conservation Program (WRCP-010383).

CONFERENCE PRESENTATIONS

Godfrey, RK. *Rethinking brain evolution in social insects: harnessing perspectives into a new predictive framework.* International Union for the Study of Social Insects 2018 Congress, Guarujá, Brazil. August 2018.

Godfrey, RK, Gronenberg W. *Linking pheromone information bias and olfactory neuromorpholoyg in Dolichoderinae (odorous) ants*. Biology & genomics of social insects. Cold Spring Harbor Meeting, Huntington, NY. May 2018. POSTER

Godfrey RK, Hofstadter, L, Chatterjee S, Gronenberg W. *Colony size, social information use, and brain morphology in Dolichoderinae ants*. SICB 2018 Annual Meeting Abstracts. 1682-83129. Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA. January, 2018. POSTER

Keating, R. *Linking variation in learning ability with regional brain metabolism in foragers of the ant Novomessor cockerelli*. International Congress of Neuroethology, Montevideo, Uruguay. March 2016. POSTER

Keating R. *Distributions of Phytophagous Larvae in Mid-Successional Allegheny Hardwoods: Impacts of Bird Exclusion.* Entomological Society of America Eastern Branch Meeting, Hartford CT, March 2012. POSTER

OUTREACH

Volunteer Coordinator & Curriculum Writer, Center for Neuroscience Foundation's *Brain Bus*, 2018
Coordinator, Arizona Insect Festival 'Bug Brains' Booth - 2015, 2016, 2017
Staff, Arizona Insect Festival 'Bug Brains' Booth - 2013, 2014
Honors Biology 181 mentor - 2015
Undergraduate Biology Research Program (UBRP) mentor - 2015, 2016