

Rebekah Keating

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Education

University of Arizona, Tucson, AZ

Ph.D. candidate in Graduate Interdisciplinary Program in Neuroscience, July 2013 - present

Indiana University of Pennsylvania, Indiana, PA

Masters of Science in Biology, July 2012; 3.9 GPA

University of Vermont, Burlington VT

Bachelors of Science in Biology, May 2003; 3.62 GPA

Awards and Honors

First place, Graduate Interdisciplinary Program poster competition, 2017

Galileo Circle Scholarship, 2017

First place, Indiana University of PA Graduate Scholars Forum poster competition, 2012

Innovation in Sustainability Graduate Research award, IUP ECO club, 2012

Second place, IUP Women in Mathematics & Science poster competition, 2012

George Perkins Marsh Award in Ecology and Evolution, 2003

Vermont Scholars Award, 1999-2003

Outreach & Volunteer Experience

Honors Biology 181 mentor, October – November 2015

Undergraduate Biology Research Program (UBRP) mentor,

- June – August 2015
- June – August 2016

Arizona Insect Festival 'Bug Brains' Booth

- September 2015, 2016, 2017 Coordinator
- September 2013 and 2014, Staff

Work Experience

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

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

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, Yerger E, Nuttle TJ. *In press* 2017. Opposing deer and caterpillar foraging preferences may prevent reductions in songbird prey biomass in historically overbrowsed forests. *Ecology and Evolution*.

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, Wild Resource Conservation Program (WRCP-010383).

Presentations

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

Distributions of Phytophagous Larvae in Mid-Successional Allegheny Hardwoods: Impacts of Bird Exclusion.

- April 2012, Graduate Scholars Forum, Indiana University of PA, Indiana PA
- March 2012, Entomological Society of America Eastern Branch Meeting, Hartford CT

My Classroom is My Park. March 2009 PA Greenways and Trails Summit, Altoona PA.