

GAIL L. MCCORMICK

Ph.D. Candidate

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The Pennsylvania State University, Eberly College of Science
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EDUCATION

- Ph.D.** Ecology Intercollege Graduate Degree Program. The Pennsylvania State University. University Park, PA. Factors affecting the physiological consequences of stress in Eastern fence lizards (*Sceloporus undulatus*). Advisor: Dr. Tracy Langkilde. Expected Sp 2016. *with high distinction.* (Ecology & Evolutionary Biology) The University of Michigan. 2010.
- B.S.** *with highest honors.* (Theatre Arts) The University of Michigan. Ann Arbor, MI. 2010.

RESEARCH EXPERIENCE

- 2011-2013 **Editor, Author.** Animal Diversity Web. University of Michigan Museum of Zoology. (<http://animaldiversityorg>). Edited 92 (co-authored 2) species accounts for publication. Converted 21 (co-authored 2) accounts for use by middle-school aged students on affiliated BioKIDS website (<http://biokids.umich.edu>).
- 2009-2011 **Research Assistant for Dr. Catherine Badgley.** The University of Michigan. Cross-referenced database (FileMakerPro) of world mammals with taxonomic references and other sources. Graphically displayed data using ArcMap (ArcGIS). Prepared bone samples for isotope analysis. Cast zebra and wildebeest teeth and documented microwear.
- 2009 **Field Assistant.** Department of Energy Global Change Education Project (GCEP) Summer Undergraduate Research Experience (SURE) Program. Assisted with project adaptation, data collection, analysis, and graphical representation (SPSS, Excel) with regard to dominance, discovery and thermal trade-offs of foraging woodland ants in Duke Forest, NC.
- 2006-2007 **Research Assistant for Dr. Gregg Gunnell.** Undergraduate Research Opportunity Program (UROP). The University of Michigan. Measured bat teeth for use in body size-dentition correlation analyses (Excel).

GRANTS, AWARDS & FELLOWSHIPS

- 2016 **Vision and Change Fellowship.** PSU Department of Biology. \$15,000
- 2015 **Ecology Research Assistantship.** PSU Ecology Program. \$11,800 (declined)
ESA Travel Award. Ecological Society of America Physiology Section. \$500
Ecology Travel Award. PSU Ecology Intercollege Graduate Degree Program. \$200
- 2014 **Ecology Travel Award.** PSU Ecology Intercollege Graduate Degree Program. \$200
Biology Travel Grant. PSU Department of Biology. \$250
- 2013 **Charlotte Mangum Student Support.** Society for Integrative and Comparative Biology. \$300
Biology Travel Grant. PSU Department of Biology. \$250
- 2012 **Graduate Research Fellowship.** National Science Foundation. \$126,000
Gaige Award. American Society of Ichthyologists and Herpetologists. \$500
- 2011 **University Graduate Fellowship.** The Pennsylvania State University. \$41,730
Arthur J. Schmitt Presidential Fellowship. University of Notre Dame. \$284,800 (declined)
- 2010 **James B. Angell Scholar.** The University of Michigan.
- 2009 **Theatre Associates Scholarship.** The University of Michigan. \$2500
- 2008 **Frank Caleb & Margaret Thompson Gates Student Scholarship.** University of Michigan Biological Station. \$700

PUBLICATIONS AND PRESENTATIONS

(*indicates undergraduate mentee)

Publications:

- McCormick, Gail,** T.Robbins, S. Cavigelli, T Langkilde. *In prep.* Ancestry trumps experience: Cross-generational but not developmental stress affects the physiological stress response. *Hormones and Behavior*.
- McCormick, Gail,** T.Robbins, S. Cavigelli, T Langkilde. *In prep.* Reaping the rewards: historically high stress populations up-regulate immune function in the face of stress. *Physiological and Biochemical Zoology*.
- McCormick, Gail L.,** K. Shea, T. Langkilde. 2015. How do duration, frequency, and intensity of exogenous CORT elevation affect immune outcomes of stress? *General and Comparative Endocrinology*. Published online [doi:10.1016/j.ygcen.2015.07.008](https://doi.org/10.1016/j.ygcen.2015.07.008)
- McCormick, Gail L.,** T. Langkilde. 2014. Immune responses of Eastern fence lizards (*Sceloporus undulatus*) to repeated acute elevation of corticosterone. *General and Comparative Endocrinology* 204: 135-140.
- Stuble, Katharine L., M.A. Rodriguez-Cabal, **G.L. McCormick**, R.R. Dunn, N.J. Sanders. 2013 Tradeoffs, competition, and coexistence in eastern deciduous forest ant communities. *Oecologia* 171(4): 981-992.
- Graham, Sean P., N.A. Freidenfelds, **G.L. McCormick**, T. Langkilde. 2012. The impacts of invaders: Basal and acute stress glucocorticoid profiles and immune function in native lizards threatened by invasive ants. *General and Comparative Endocrinology* 176(3): 400-408.

Peer-Reviewed Notes:

- Thawley, Christopher J., **G.L. McCormick** and S.P. Graham. 2013. Geographic distribution: *Crotalus horridus* (Timber rattlesnake). *Herpetological Review* 44(4): 628.
- Thawley, Christopher J., **G.L. McCormick**, S.P. Graham. 2013. Geographic Distribution: *Heterodon platirhinos* (eastern hog-nosed snake). *Herpetological Review* 44 (3): 476.
- Thawley, Christopher J., **G.L. McCormick**, S.P. Graham. 2013. Geographic Distribution: *Ophedrys aestivus* (rough green snake). *Herpetological Review* 44 (3): 477.

Oral Presentations:

- McCormick, Gail L.,** T. Robbins, S. Cavigelli, T. Langkilde. 2015 Ecological Society of America, Baltimore MD. *The physiological stress response is affected by both developmental and evolutionary exposure to stressors.* (August).
- McCormick, Gail L.,** K. Shea, T. Langkilde. 2014 Animal Behavior Society. Princeton NJ. *What makes stress stressful? Why the Acute/Chronic stress regime is incomplete.* (August).
- McCormick, Gail L.,** T. Langkilde. 2013 Society of Integrative and Comparative Biology, San Francisco CA. *Immune Responses of the Physiological Stress Response.* (January).

Posters:

- Gerhart, Jennifer* (presenting), **G.L. McCormick**, T. Langkilde. 2013. Validating a noninvasive technique for measuring glucocorticoids. Penn State Undergraduate Exhibition. University Park, PA.

Stuble, Katharine L. (presenting), M.A. Rodriguez-Cabal, **G.L. McCormick**, R.R. Dunn, N.J. Sanders. 2010. Tradeoffs, competition, and coexistence in eastern deciduous forest ant communities. Society for the Study of Social Insects Congress. Copenhagen, Denmark.

Hwang, Maggie (presenting), **G.L. McCormick** (presenting), G. Gunnell. 2007. Bat Evolutionary History: Body Size Through Time. Undergraduate Research Opportunity Program Research Symposium. The University of Michigan. Ann Arbor, MI.

TEACHING EXPERIENCE

The Pennsylvania State University. State College, PA

2015 *Teaching Assistant*

- Populations and Communities - BIO 220

2014 *Guest lecturer*

- "Social Behavior" - BIOL 429 - Animal Behavior
- "Consequences of Environmental Stress" - WFS 462 - Amphibians and Reptiles

University of Michigan Biological Station. Pellston, MI.

2010 *Teaching Assistant*

- Field Mammalogy

University of Michigan Residential College. Ann Arbor, MI

2010 *Teaching Assistant*

- Inside the Dramatic Process: Image of the American Family – First Year Writing Seminar – (Also delivered two lectures)

OUTREACH

2013–present **The Lizard Log.** *Administrator & Author.* <http://thelizardlog.wordpress.com>.

2013–present **Undergraduate Research Exhibition.** *Judge.* The Pennsylvania State University.

2013–2015 **Science Café.** *Committee Chair.* Annual Spring Science Café series at local coffee shop for adult outreach. The Pennsylvania State University Ecology Program.

2014 **Science Café.** *Presenter.* "Why is stress stressful? How humans and animals respond to challenges." Webster's Café. The Pennsylvania State University Ecology Program.

2011 **Cat Ecology Outreach Table.** *Co-Coordinator.* WPSU Eventapalooza! The Pennsylvania State University.

2011 **Langkilde Lab Undergraduate Discussion Group.** *Presenter.* "Grad School 101: How to Apply to Grad School and Not Go Crazy" The Pennsylvania State University.

2008 **Undergraduate Research Opportunity Program.** *Presenter.* "Research across Disciplines." The University of Michigan.

LEADERSHIP AND OTHER EXPERIENCE

2014 **Ecology Graduate Student Association.** *President.* The Pennsylvania State University.

2012–2013 **Ecology Graduate Student Association.** *Webmaster.* The Pennsylvania State University.

2012–2013 **Ecology Spring Seminar Series.** *Co-Coordinator.* "Coping with Global Environmental Change." The Pennsylvania State University.

2000–present **50+ Theatrical Productions.** *Stage Manager, Director, Actor, etc.* Various organizations.

2007–2010 **The Gargoyle Humor Magazine.** *Writer, Staff.* University of Michigan Student Publications.

2006–2008 **University of Michigan Women's Glee Club.** *Alumni Chair, Newsletter Editor.*

2003-2006 **Rochester Adams High School Choir & Theatre.** *Webmaster.*

PEER REVIEWER

General & Comparative Endocrinology, Physiological & Biochemical Zoology, Herpetologica

PROFESSIONAL MEMBERSHIPS

Ecological Society of America, Society for Comparative and Integrative Biology, Animal Behavior Society, American Society of Ichthyologists and Herpetologists