

Hillary C. Metz

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EDUCATION

- Ph.D.** 2015 Harvard University, Department of Organismic and Evolutionary Biology
B.S. 2006 University of Idaho, *summa cum laude*, Biology and Microbiology

PROFESSIONAL EXPERIENCE

- 2016- **Postdoctoral Researcher**, Princeton University
2006-2008 **Postbaccalaureate Researcher**, National Institutes of Health

AWARDS AND HONORS

- 2014-2015 AAUW American Fellowship
2012 Robert A. Chapman Memorial Scholarship
2008-2013 NSF Predoctoral Fellowship (GRFP)
2007-2008 NIH IRTA Award
2006 Outstanding Senior Award, Dept. of Biological Sciences, University of Idaho
2006 Jesse Buchanan Award, University of Idaho
2005-2007 NIH UGSP Scholarship
2005 SURF Undergraduate Research Fellow, Washington State University
2004 BRIN Undergraduate Research Fellow, University of Idaho
2004 McNair Scholarship, US Department of Education

RESEARCH GRANTS

- 2012 **NSF 1209753** *The genetic and neurobiological mechanisms of species-specific burrowing behavior in deer mice.* (DDIG, Co-PI H.E. Hoekstra)
2009 & 2011 **Mind Brain and Behavior Initiative, Harvard University**
Graduate Student Research Award

PUBLICATIONS

- Metz, H.C.**, N.L. Bedford, Y.L. Pan & H.E. Hoekstra. (2017). Evolution and genetics of precocious burrowing behavior in *Peromyscus* mice. *Current Biology* 27: 3837–3845.e3.
Metz, H.C., M. Manceau, & H.E. Hoekstra. (2011). Turing patterns: how the fish got its spots. *Pigment Cell and Melanoma Research* 24(1):12-14.

Metz, H.C. & S. Wray. (2010). Use of mutant mouse lines to investigate origin of GnRH-1 neurons: lineage independent of the adenohypophysis. *Endocrinology* 151(2): 766-773.

TEACHING

- 2017 Guest Lecture: Unearthing the genetics of complex traits
EEB 309: *Evolutionary Biology*, Princeton University
- 2016 Teaching Fellow, LS1b: *Genetics, Genomics and Evolution*, Harvard University
- 2011-2015 Teaching Fellow, OEB57: *Animal Behavior*, Harvard University (3 semesters)
- 2013 Teaching Fellow, MCB80: *Neurobiology of Behavior*, Harvard University
- 2005 Teaching Assistant, *Introductory Biology*, University of Idaho
- 2004-2006 Tutor, biology, microbiology, general chemistry, organic chemistry, and statistics
TAAP Program, University of Idaho

INVITED TALKS

- 2014 Winter Conference on Brain Research, Steamboat Springs, CO
Evolvability of behavior: genes, development, and neural circuits
- 2010 Radcliffe Workshop, Harvard University, Cambridge, MA
Evolution and Genetics of Adaptive Coloration

CONTRIBUTED TALKS AND POSTERS

- 2017 EvoGroup, Princeton University
*Talk: Evolution of human specialization in *Aedes aegypti* mosquitoes*
- 2017 Evolution in Philadelphia Conference (EPiC)
Poster: Genetic analysis of mosquito bite itch
- 2015 Neurolunch Series, Harvard Center for Brain Science
Talk: The genetic basis of behavior: burrow construction in wild mice
- 2014 International Society for Behavioral Ecology, New York, NY
Talk: The genetic basis of behavior: burrowing in wild mice
- 2014 Genes and Behavior Gordon Research Conference, Galveston, TX
Talk: Digging for the genetic basis of complex behavior: burrow construction in wild mice
- 2013 Evolution Meetings, Snowbird, UT
Talk: Digging for the genetic basis of complex behavior: burrow construction in wild mice
Finalist for the Hamilton Prize
- 2012 Evolution Meetings, Ottawa, ON, Canada
Talk: The genetic basis of behavior: burrowing in deer mice

- 2011 Animal Behavior Society Meeting, Bloomington, IN
Poster: Ontogeny of complex behavior: burrowing in deer mice
- 2010 Genes and Behavior Gordon Research Conference, Ventura, CA
*Poster: Digging for the genetics of burrowing behavior in *Peromyscus**
- 2009 Evolution Meetings, Moscow, ID
Poster: How the chipmunk got his stripes

SERVICE AND OUTREACH

- 2015-2017 **Volunteer Scientist**, *Science and the Media*
Meridian Academy, Jamaica Plain, MA
- 2014 **Scientific Art Exhibitor**, *The Subjective Objective: Imaging Biology*
Harvard Integrated Life Sciences (HILS)
- 2013-2014 **Member and Mentor**, Women in Science Technology Engineering and Math (WISTEM)
Harvard University
- 2012 **Laboratory Tour Leader**, *Explorations 2012*
Educational Outreach Program, Harvard Medical School
- 2011 **Museum Docent Training**, *Mammalian Pigmentation*
Harvard Museum of Natural History
- 2010 **Gallery Tour Leader**, *Stripes, Spots, and Pigments in the Animal World*
Nights at the Museum, Harvard Museum of Natural History
- 2009 **Tour Leader**, *sideWALK through Time: Exploring Paleobiology*
Harvard Museum of Natural History

UNDERGRADUATE MENTORSHIP

- 2017-2018 Meredith Mihalopoulos, Princeton University, EEB Senior Thesis
- 2011-2014 Rachelle Ludwick, Julia Mason, Srishti Prabha, Sarah Scalia & Lynn Shi
Undergraduate research assistants, Harvard University
- 2010-2013 Yangshu Linda Pan, Harvard University, OEB Senior Thesis
*Born to burrow: Ontogeny of burrowing behavior in *Peromyscus**
*Recipient of two Grants-in-aid of Undergraduate Research (MCZ GUR), and two
Harvard College Research Program (HCRP) awards
*Nominee for the Hoopes Prize for Outstanding Senior Thesis
- 2007-2008 Kimeya Ghaderi, Newcomb Fellow, NIH, Bethesda, MD