

TRICIA L. RUBI

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1004 East Hall ◊ 530 Church St ◊ Ann Arbor, MI, 48109

EDUCATION

- University of Minnesota, PhD** Aug. 2010 - Dec. 2015
Department of Ecology, Evolution, and Behavior
- University of Colorado, BA *cum laude*** Sept. 2004 - Aug. 2008
Majors: Molecular, Cellular, and Developmental Biology
Ecology and Evolutionary Biology
Honors: Departmental Honors, MCDB
Neuroscience Certificate

RESEARCH EXPERIENCE

- University of Michigan** Sept. 2016 - present
NSF Postdoctoral Research Fellow in Biology Ann Arbor, MI
- Research focus: Behavioral, genetic, and epigenetic mechanisms of colonization and range expansion in deer mice (*Peromyscus spp.*), historic DNA and methylation analyses
- University of Minnesota** Aug. 2010 - Dec. 2015
PhD Student St. Paul, MN
- Research focus: Complex signals and perceiver behavior
- University of Lethbridge** Jan. 2010 - July 2010
Field Researcher Graaf Reinet, South Africa
- Behavioral observation of wild vervet monkeys
- American Museum of Natural History** Oct. 2008 - Dec. 2009
Lab Manager New York, NY
- Molecular systematics of scorpions and non-spider arachnids
- Colorado Division of Wildlife** May 2008 - Sept. 2008
Contracted Researcher Boulder, CO
- Molecular systematics of cutthroat trout
- University of Colorado** Sept. 2006 - May 2008
Laboratory Assistant Boulder, CO
- Molecular systematics of cutthroat trout, historic DNA
 - Honors thesis: Identifying native cutthroat trout in the Colorado Rockies using historic museum specimens

PUBLICATIONS AND PRESENTATIONS

Publications

Rubi, T.L., Clark, D.L., Keller, J.S., and Uetz, G.W. (*in prep*). Courtship behavior and coloration influence conspicuousness of wolf spiders (*Schizocosa ocreata* (Hentz)) to avian predators.

Polnaszek, T.J., **Rubi, T.L.**, and Stephens, D.W. (2017). When it's good to signal badness: using objective measures of discriminability to test the value of conspicuousness. *Animal Behaviour* **129**: 113-125. doi: 10.1016/j.anbehav.2017.05.009

Rubi, T.L. and Stephens, D.W. (2016). Why complex signals matter, sometimes. In Bee, M.A. and Miller, C.T., eds, *Psychological Mechanisms in Animal Communication*. Springer International Publishing, New York. pp. 119-135.

Rubi, T.L. and Stephens, D.W. (2016). Does multimodality *per se* improve receiver performance? An explicit comparison of multimodal versus unimodal complex signals in a learned signal-following task. *Behavioral Ecology and Sociobiology* **70** (3): 409-416. doi: 10.1007/s00265-016-2061-y

Rubi, T.L. and Stephens, D.W. (2016). Should receivers follow multiple signal components? An economic perspective. *Behavioral Ecology* **27** (1): 36-44. doi: 10.1093/beheco/arv121

Freeman, N.J., Pasternak, G.M., **Rubi, T.L.**, Barrett, L., and Henzi, S.P. (2012). Evidence for scent-marking in vervet monkeys? *Primates* **53** (3): 311-315.

Conference Presentations

Assessing epigenetic and genetic diversity across a range expansion using bisulfite ddRADseq June 2017
Talk - Evolution

Intermediate levels of environmental certainty favor complex signal use by receivers. June 2015
Talk - Animal Behavior Society Conference

Do multimodal signals improve receiver performance? August 2014
Talk - International Society for Behavioural Ecology Conference

Do multimodal signals improve receiver performance? August 2014
Talk - Animal Behavior Society Conference

Complex signals and receiver behavior August 2013
Talk - Animal Behavior Society Conference

Complex signals, reliability, and receiver behavior June 2012
Poster - Animal Behavior Society Conference

Reliability and receiver use of multicomponent signals July 2011
Poster - Animal Behavior Society Conference

Other Presentations

Museum epigenomics January 2017
Talk - University of Michigan Knowles Lab Group

Why are signals complex? October 2016
Talk - Miami University Biology Departmental Seminar

Economic benefits of complex signals December 2015
Talk - University of Michigan Integrative Behavioral Ecology Group

Complex signals, reliability, and receiver behavior May 2012
Talk - University of Minnesota Behavior Group Seminar

Multicomponent signals: When and how do receivers use them? May 2011
Talk - University of Minnesota Behavior Group Seminar

TEACHING EXPERIENCE

Teaching Assistantships

Evolution Spring 2015
University of Minnesota Fall 2014
Spring 2014

Introduction to Animal Behavior Fall 2013
University of Minnesota Fall 2012
(2 semesters as course administrator) Spring 2012

Foundations of Biology Spring 2013
University of Minnesota

Primate Ecology and Social Behavior Fall 2011
University of Minnesota

Guest Lectures

“Social Behavior” Nov. 24, 2013
Introduction to Animal Behavior
University of Minnesota

“Foraging Theory” Feb. 29, 2012
Introduction to Animal Behavior
University of Minnesota

“Ecological Predictors of Social Structure” Oct. 24, 2011
Primate Ecology and Social Behavior
University of Minnesota

GRANTS AND AWARDS

NSF Postdoctoral Research Fellowship in Biology May 2016

UMN EEB Travel Award Apr. 2015

ISBE Travel Award Apr. 2014

UMN EEB Travel Award Apr. 2014

UMN COGS Travel Award May 2013

Animal Behavior Society Student Research Grant May 2013

Richard and Judi Huempfer Ruffed Grouse Fellowship Mar. 2013

Alexander and Lydia Anderson Fellowship Feb. 2013

Carol H. and Wayne A. Pletcher Fellowship Nov. 2012

Elmer C. Birney Fellowship May 2012

UMN EEB Travel Award May 2012

NSF GRFP Honorable Mention Apr. 2012