

TRICIA L. RUBI

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EDUCATION

- University of Minnesota, PhD** 2010 – 2015
Department of Ecology, Evolution, and Behavior
Dissertation: *Complex signals and perceiver behavior*. Advisor: David Stephens.
- University of Colorado, BA** 2004 – 2008
Majors: Molecular, Cellular, and Developmental Biology
Ecology and Evolutionary Biology
Honors thesis: *Identifying native cutthroat trout using historic museum specimens*.

APPOINTMENTS

- University of Victoria** Dec 2018 – present
Postdoctoral researcher. Supervisor: John Taylor
Behavior, gene expression, amino acid coevolution in fish.
Victoria, BC
- University of Michigan** Sept 2016 – Sept 2018
NSF postdoctoral fellow. Supervisor: Ben Dantzer
Behavioral, genetic, epigenetic mechanisms of colonization in *Peromyscus*, museum epigenomics.
Ann Arbor, MI
- University of Lethbridge** Jan 2010 – Jul 2010
Field assistant. Supervisors: Peter Henzi, Louise Barrett
Behavioral observation of wild vervet monkeys.
Graaf Reinet, South Africa
- American Museum of Natural History** Oct 2008 – Dec 2009
Lab manager. Supervisor: Lorenzo Prendini
Scorpion Systematics Lab.
New York, NY
- Colorado Division of Wildlife** May 2008 – Sept 2008
Contracted researcher
Molecular systematics of cutthroat trout.
Boulder, CO

GRANTS AND AWARDS

External Grants and Awards

- 2016 NSF Postdoctoral Research Fellowship in Biology – \$138,000 USD
2013 Animal Behavior Society Student Research Grant - \$1,500

Internal Grants and Awards

- 2013 Richard and Judi Huempfer Ruffed Grouse Fellowship, UMN - \$3,000
Alexander and Lydia Anderson Fellowship, UMN - \$3,000
2012 Carol H. and Wayne A. Pletcher Fellowship, UMN - \$2,500
Elmer C. Birney Fellowship, UMN - \$5,834

Travel Awards

- 2015 UMN EEB Travel Award - \$1,100
2014 ISBE Travel Award - \$1,500
UMN EEB Travel Award - \$1,000
2013 UMN COGS Travel Award - \$470
2012 UMN EEB Travel Award - \$200

PUBLICATIONS AND PRESENTATIONS

Published manuscripts

8) Underhill, V., Pandelis, G.G, Papuga, J., Sabol, A.C., Rife, A., **Rubi, T.L.**, Hoffmann, S.M.G, Dantzer, B. (*in press*). Personality and behavioral syndromes in two *Peromyscus* species: presence, lack of state-dependence, and lack of association with home range size. *Behavioral Ecology and Sociobiology*.

7) **Rubi, T.L.**, Knowles, L.L., and Dantzer, B. (2020). Museum epigenomics: characterizing cytosine methylation in historic museum specimens. *Molecular Ecology Resources* **20**: 1161-1170.

Featured article, Molecular Ecology Spotlight

6) **Rubi, T.L.**, Clark, D.L., Keller, J.S., and Uetz, G.W. (2019). Courtship behavior and coloration influence conspicuousness of wolf spiders (*Schizocosa ocreata* (Hentz)) to avian predators. *Behavioural Processes* **162**: 215-220.

Media coverage: BBC Newsday radio interview, five online publications

5) 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 Behavior*. **129**: 113-125.

4) **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.

3) **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

2) **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

1) 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 and Seminar Presentations

2019	Society for Integrative and Comparative Biology
2018	International Society for Behavioural Ecology
2017	NSF PRFB Symposium Evolution
2016	Miami University Biology Departmental Seminar (invited talk)
2015	Animal Behavior Society University of Michigan Integrative Behavioral Ecology Group
2014	International Society for Behavioural Ecology Animal Behavior Society
2013	Animal Behavior Society
2012	Animal Behavior Society (poster)
2011	Animal Behavior Society (poster)

TEACHING EXPERIENCE

Graduate Teaching Assistantships, Univ of Minnesota 2011 – 2015
8 semesters total: Introduction to Animal Behavior (3 sem), Evolution (3 sem),
Foundations of Biology (1 sem), Primate Ecology (1 sem)

Guest Lectures

2017 “Foraging” - Animal Behavior (Univ of Michigan)
2013 “Social Behavior” - Intro to Animal Behavior (Univ of Minnesota)
2012 “Foraging Theory” - Intro to Animal Behavior (Univ of Minnesota)
2011 “Ecological Predictors of Social Structure” - Primate Ecology (Univ of Minnesota)

OUTREACH

Broadening Participation

FEMMES 2016
Developed and presented activities for science outreach events for middle and high school girls.

Animal Behavior Society Outreach Fair 2012 - 2015
Participated in annual outreach event for public and children highlighting research at ABS conference.

Teaching SMART 2011-2012
School Coordinator, organized biweekly science and math lessons in Minneapolis elementary school with high proportion low income and underrepresented students.

Media Coverage

2020 **Molecular Ecology Spotlight.** “Interview with the author: Museum epigenomics.”
2019 **BBC Newsday radio interview.** “The deadly dance of the wolf spider.”
Labroots article. “These spiders risk their lives to find a mate.”
Nature World News. “Spiders risk everything for love.”
The Science Times. “Excessive courtship displays make wolf spiders easy target for birds.”
ScienceDaily. “Extravagant courtship displays make wolf spiders an easy target for birds.”
The Wildlife Society. “Spiders risk lives to attract cannibalistic mates.”