

CURRICULUM VITAE

JEANINE M. REFSNIDER

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PROFESSIONAL PREPARATION

- 2015 – present. Assistant Professor, Dept. of Environmental Sciences, University of Toledo.
- 2012-2015. NSF Postdoctoral Fellow in Biology, University of California, Berkeley.
Advisor: Dr. Erica Bree Rosenblum.
- Ph.D. 2012. Iowa State University, Ecology and Evolutionary Biology. Advisor: Dr. Fredric Janzen.
- M.Sc. 2005. University of Minnesota, Conservation Biology. Advisor: Dr. Andrew Simons.
- B.A. with Honors. 2000. University of Minnesota-Morris. Biology major; minors in Chemistry and Women's Studies.

FELLOWSHIPS

- 2012 National Science Foundation Postdoctoral Fellowship in Biology
- 2007 Iowa State University Ecology and Evolutionary Biology Graduate Fellowship
- 2005 Fulbright Graduate Student Fellowship – New Zealand

GRANTS AND AWARDS

- 2013 Invited Symposium Scholar: Dissertations initiative for the advancement of climate change research VIII
- 2012 Iowa State University Graduate Research Excellence Award
- 2011 Seibert Conservation Award for best student presentation, Joint Meeting of Ichthyologists and Herpetologists
- 2011 Iowa State U, Dept. Ecology and Evolution Graduate Student Research Grant
- 2011 William Clark Graduate Student Award in Ecology and Evolutionary Biology
- 2010 Sigma Xi Grant-in-Aid-of-Research
- 2009 Society for Integrated and Comparative Biology, student research grant
- 2009 Society for the Study of Amphibians and Reptiles, student research grant
- 2009 Society for the Study of Amphibians and Reptiles, Dean Metter Memorial Grant
- 2009 Iowa Academy of Sciences
- 2008 Iowa State U, Dept. Ecology and Evolution Graduate Student Research Grant
- 2005 Outstanding Master's Degree Student Award, U Minnesota, Conservation Biology Graduate Program
- 2004 Sigma Xi Grant-in-Aid-of-Research

- 2004 James Ford Bell Museum, Dayton-Wilkie Natural History Grant
- 2004 Organization for Tropical Studies – Grad Student Scholarship and research grant
- 2003 Minnesota Department of Natural Resources, Nongame Wildlife Program
- 2003 Minnesota Herpetological Society research grant
- 2002 National Science Foundation Graduate Research Fellowship – Honorable Mention
- 2000 Scholar of the College Award, University of Minnesota-Morris
- 2000 University of Minnesota-Morris Jay Roshal Biology Award
- 1996 University of Minnesota-Morris Freshman Academic Scholarship

PUBLICATIONS (* indicates undergraduate student co-authors)

- 31. **Refsnider, J.M.** *In review*. Nest-site choice and nest construction in non-avian reptiles: evolutionary significance and ecological implications. Avian Biology Research. **(Invited review)**
- 30. **Refsnider, J.M.**, T.J. Poorten, P.F. Langhammer, P.A. Burrowes, and E.B. Rosenblum. *In press*. Genomic correlates of virulence attenuation in the deadly amphibian chytrid fungus, *Batrachochytrium dendrobatidis*. Genes, Genomes, and Genetics.
- 29. **Refsnider, J.M.** and F.J. Janzen. *In press*. Temperature-dependent sex determination under rapid anthropogenic environmental change: evolution at a turtle's pace? Journal of Heredity. **(Invited Review)**
- 28. **Refsnider, J.M.**, S. Des Roches, and E.B. Rosenblum. *In press*. Evidence for ecological release over a fine spatial scale in a lizard from the White Sands formation. Oikos.
- 27. **Refsnider, J.M.**, A.M. Reedy, D.A. Warner, and F.J. Janzen. *In press*. Do tradeoffs between predation pressures on females vs. nests drive nest-site choice in painted turtles? Biological Journal of the Linnean Society.
- 26. **Refsnider, J.M.**, M.G. Palacios, D.M. Reding, and A.M. Bronikowski. 2015. Effects of a novel climate on stress response and immune function in painted turtles (*Chrysemys picta*). Journal of Experimental Zoology 323A: 160-168.
- 25. Piovia-Scott, J., K. Pope, S.J. Worth, E.B. Rosenblum, T. Poorten, **J. Refsnider**, L. Rollins-Smith, L. Reinert, D. Rejmanek, H.L. Wells, D. Rejmanek, S. Lawler, and J. Foley. 2014. Phenotypic and genomic correlates of virulence in the frog-killing fungal pathogen: evidence from a California amphibian decline. The ISME Journal: 1-9.
- 24. **Refsnider, J.M.**, C. Milne-Zelman, D.A. Warner, and F.J. Janzen. 2014. Population sex ratios under differing local climates in a reptile with environmental sex determination. Evolutionary Ecology 28(5): 977-989.
- 23. Streby, H.M. and **Refsnider, J.M.** 2014. Redefining reproductive success in songbirds: a challenge to the nest success paradigm. Auk: Ornithological Advances 131: 718-726. **(Invited Perspective)**
- 22. Streby, H.M., **J.M. Refsnider**, S.M. Peterson, and D.E. Andersen. 2014. Retirement investment theory explains patterns in songbird nest-site choice. Proceedings of the Royal Society of London B 281: 20131834. **(Cover)**
- 21. Sethuraman, A., S.E. McGaugh, M.L. Becker, C.H. Chandler, J.L. Christiansen, S. Hayden, A. LeClere, J. Monson-Miller, E.M. Myers, R.T. Paitz, **J.M. Refsnider**, T.

- VanDeWalle, and F.J. Janzen. 2014. Population genetics of Blanding's turtle (*Emys blandingii*) in the midwestern United States. Conservation Genetics 15: 61-73.
20. **Refsnider, J.M.**, B. Bodensteiner*, J. Reneker*, and F.J. Janzen. 2013. Nest depth does not compensate for sex ratio skews caused by climate change in turtles. Animal Conservation 16(5): 481-490. (**Featured Paper**)
 19. **Refsnider, J.M.**, B. Bodensteiner*, J. Reneker*, and F.J. Janzen. 2013. Experimental field studies of species' responses to climate change: challenges and future directions. Animal Conservation 16(5): 498-499.
 17. **Refsnider, J.M.**, C.H. Daugherty, S.S. Godfrey, S.N. Keall, J.A. Moore, and N.J. Nelson. 2013. Nesting migrations by a colonially-nesting reptile, the tuatara: patterns and potential costs. Herpetologica 69(3): 282-290. (**Cover**)
 18. **Refsnider, J.M.**, D.A. Warner, and F.J. Janzen. 2013. Does shade cover availability limit nest-site choice in two populations of turtles with temperature-dependent sex determination? Journal of Thermal Biology 38: 152-158.
 16. **Refsnider, J.M.** 2013. High thermal variance in naturally-incubated turtle nests produces faster offspring. Journal of Ethology 31(1): 85-93.
 15. **Refsnider, J.M.** and F.J. Janzen. 2012. Behavioural plasticity may compensate for climate change in a long-lived reptile with temperature-dependent sex determination. Biological Conservation 152: 90-95.
 14. Jones, P.C., R.B. King, R.L. Bailey, N.D. Bieser, K. Bissell, H. Campa III, T. Crabill, M.D. Cross, B.A. Degregorio, M.J. Dreslik, F.E. Durbian, D.S. Harvey, S.E. Hecht, B.C. Jellen, G. Johnson, B.A. Kingsbury, M.J. Kowalski, J. Lee, J.V. Manning, J.A. Moore, J. Oakes, C.A. Phillips, K.A. Prior, **J.M. Refsnider**, J.D. Rouse, J.R. Sage, R.A. Seigel, D.B. Shepard, C.S. Smith, T.J. Vandewalle, P.J. Weatherhead, and A. Yagi. 2012. Rangewide analysis of eastern massasauga survivorship. Journal of Wildlife Management 76(8): 1576-1586.
 13. **Refsnider, J.M.**, J. Strickland, and F.J. Janzen. 2012. Home range and site fidelity of imperiled ornate box turtles in northwestern Illinois. Chelonian Conservation and Biology 11: 78-83.
 12. **Refsnider, J.M.** and M.H. Linck. 2012. Habitat use and movement patterns of Blanding's turtles (*Emydoidea blandingii*) in Minnesota, U.S.A.: a landscape ecology approach to species conservation. Herpetological Conservation and Biology 7(2): 185-195.
 11. Ramstad, K.M., J.A. Moore, and **J.M. Refsnider**. 2012. Intrasexual aggression in tuatara: males and females respond differently to same-sex intruders during mating season. Herpetological Review 43(1): 19-21.
 10. **Refsnider, J.M.**, T.S. Mitchell, H.M. Streby, J. Strickland, D.A. Warner, and F.J. Janzen. 2011. A generalized method to determine detectability of rare and cryptic species using the ornate box turtle (*Terrapene ornata*) as a model. Wildlife Society Bulletin 35(2): 93-100.
 9. **Refsnider, J.M.** and F. J. Janzen. 2010. Putting eggs in one basket: Ecological and evolutionary hypotheses for variation in oviposition-site choice. Annual Review of Ecology, Evolution, and Systematics 41: 39-57. (**Invited Review**)
 8. **Refsnider, J.M.**, S.N. Keall, C.H. Daugherty, and N.J. Nelson. 2010. Nest-site choice and fidelity in tuatara on Stephens Island, New Zealand. Journal of Zoology 280(4): 396-402.

7. **Refsnider, J.M.**, S.N. Keall, C.H. Daugherty, and N.J. Nelson. 2009. Does nest-guarding in female tuatara (*Sphenodon punctatus*) decrease nest destruction by conspecific females? Journal of Herpetology 43(2): 294-299.
6. **Refsnider, J.M.** 2009. High frequency of multiple paternity in Blanding's Turtle (*Emys blandingii*). Journal of Herpetology 43(1): 74-81.
5. Streby, H.M., **J.M. Refsnider**, S.M. Peterson, and D.E. Andersen. 2008. Barred owl predation on hermit thrush and ovenbird fledglings. Journal of Raptor Research 42(4): 296-298.
4. **Refsnider, J.M.**, J. Moore, and H. Streby. 2008. *Sphenodon punctatus* (Common Tuatara): Prey detection. Herpetological Review 39(3): 347-348.
3. **Refsnider, J.M.** and P. Schlick. 2006. *Emydoidea blandingii* (Blanding's turtle): Double-clutching. Herpetological Review 37(3): 341-342.
2. **Refsnider, J.M.**, R.L. Refsnider, and S. St. Clair. 2005. Incidents of woodpecker toes being caught in leg bands. North American Bird Bander 30(3): 119-120.
1. **Refsnider, J.M.** 1993. Weight loss by birds when held for banding. North American Bird Bander 18(3): 90-97.

SELECTED PRESENTATIONS

22. **Refsnider, J.M.** 2015. **Invited speaker**, Nest-site choice and nest construction in non-avian reptiles: evolutionary significance and ecological implications. Nest Construction and Function Conference, Lincoln, England.
21. E.B. Rosenblum, T. Poorten, **J.M. Refsnider**, J. Eherns, and A. Byrne. 2014. Further evidence for rapid genomic evolution in *Batrachochytrium dendrobatidis*. Amphibian Pathogens Annual Meeting, Tempe, AZ.
20. **Refsnider, J.M.**, S. Des Roches, and E.B. Rosenblum. 2014. Ecological release occurs at multiple spatial scales in a lizard from the White Sands formation. Ecological Society of America, Sacramento, CA.
19. **Refsnider, J.M.** Does climate change mean the end of males? 2013. **Invited speaker**, Dissertations Initiative for the Advancement of Climate Change Research Symposium, Colorado Springs, CO.
18. **Refsnider, J.M.** and F.J. Janzen. 2012. Environmental and evolutionary constraints on nest-site choice in a reptile with temperature-dependent sex determination. World Congress of Herpetology, Vancouver, British Columbia, Canada.
17. **Refsnider, J.M.** and F.J. Janzen. 2011. Maternal nest-site choice may compensate for effects of climate change in reptiles with temperature-dependent sex determination. The Wildlife Society, Waikaloa, HI.
16. **Refsnider, J.M.** and F.J. Janzen. 2011. Nest-site choice in response to climate change and effects on offspring performance in a turtle with temperature-dependent sex determination. Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN. (**Seibert Conservation Award** for best student presentation)
15. **Refsnider, J.M.** and M. Linck. 2010. Reproductive ecology of Blanding's turtles in Minnesota. **Invited speaker**, Midwest Chapter of Partners in Amphibian and Reptile Conservation, Oregon, IL.

14. **Refsnider, J.M.** and F.J. Janzen. 2010. Can maternal nest-site choice compensate for the effects of climate change on a reptile with temperature-dependent sex determination? Iowa Academy of Science, Lamoni, IA.
13. **Refsnider, J.M.** and F.J. Janzen. 2010. Can maternal nest-site choice compensate for the effects of climate change on a reptile with temperature-dependent sex determination? Midwest Ecology and Evolution Conference, Ames, IA.
12. **Refsnider, J.M.** and F.J. Janzen. 2010. Can maternal nest-site choice compensate for the effects of climate change on a reptile with temperature-dependent sex determination? Society for Integrative and Comparative Biology, Seattle, WA.
11. **Refsnider, J.M.**, S.N. Keall, C.H. Daugherty, and N.J. Nelson. 2008. Nest-site choice in the tuatara (Reptilia: Sphenodontia). Ecological Society of America, Milwaukee, WI.
10. **Refsnider, J.M.**, S.N. Keall, C.H. Daugherty, and N.J. Nelson. 2008. Nest-guarding decreases conspecific nest destruction in tuatara (*Sphenodon punctatus*). Joint Meeting of Ichthyologists and Herpetologists, Montreal, Quebec, Canada.
9. **Refsnider, J.M.**, N.J. Nelson, S.N. Keall, and C.H. Daugherty. 2007. Female interactions in nest site choice and nest guarding in tuatara. Society for Research on Amphibians and Reptiles in New Zealand. Otago University, Dunedin, New Zealand.
8. **Refsnider, J.M.**, N.J. Nelson, S.N. Keall, and C.H. Daugherty. 2006. Fidelity vs. flexibility in nest site choice by female tuatara: implications for population persistence under global climate change. Ecology Across the Tasman: New Zealand Ecological Society and Ecological Society of Australia, Wellington, New Zealand.
7. **Refsnider, J.M.** 2006. Reproductive ecology of Blanding's turtles in Minnesota, USA. Australian Society of Herpetologists, Healesville, Victoria, Australia.
6. **Refsnider, J.M.** 2005. Reproductive ecology of Blanding's turtles in Minnesota. **Invited speaker**, U.S. Fish and Wildlife Service, Region 3.
5. **Refsnider, J.M.** 2005. Post-emergence behaviour and paternity analysis of neonate Blanding's turtles: A multi-generational radio-telemetry study in Minnesota, USA. Symposium on techniques used in studying the ecology of freshwater turtles, World Congress of Herpetology, Stellenbosch, South Africa.
4. **Refsnider, J.M.** 2005. Habitat use and movement patterns of female Blanding's turtles on nesting forays in Minnesota, and community involvement in conservation efforts. Intl. Blanding's Turtle Conference, White Point Beach, Nova Scotia, Canada.
3. **Refsnider, J.M.** 2004. Trials and Tribulations of Turtle Tracking. **Invited speaker**, Minnesota Herpetological Society.
2. **Refsnider, J.M.** 2004. Use of ephemeral wetlands during nesting forays by Blanding's turtles and implications for habitat conservation. Society for Conservation Biology, New York City, NY.
1. **Refsnider, J.M.** 2004. Use of ephemeral wetlands during nesting forays by Blanding's turtles. American Society of Ichthyologists and Herpetologists, Norman, OK.

RESEARCH COVERAGE IN THE POPULAR PRESS

- Gelling, C. 2014. "When a species can't stand the heat." Student Science (Apr. 9, 2014). <https://student.societyforscience.org/article/when-species-can%E2%80%99t-stand-heat>
- Refsnider, J. 2014. "Shell Game: Scientist would study climate change's effects on turtles, if not for climate change." Grist.com (Mar. 15, 2014). <http://grist.org/climate-energy/scientist-would-study-climate-changes-effects-on-turtles-if-not-for-climate-change/>
- Boer, D. 2014. "Planned Parenthood." The Economist (Jan. 23, 2014). <http://www.economist.com/blogs/babbage/2014/01/avian-ecology>
- Vence, T. 2014. "Behavior Brief: Nest Egg." The Scientist (Jan. 16, 2014). <http://www.the-scientist.com/?articles.view/articleNo/38881/title/Behavior-Brief/>
- Refsnider, J.M. 2011. Painted turtles and climate change. *Bosque Watch* 18(4): 5-6, Friends of the Bosque del Apache National Wildlife Refuge Newsletter.

APPOINTMENTS

- 2012 Laboratory Instructor, Mammalogy, Iowa State University
- 2010-11 Laboratory Instructor, Ecology, Iowa State University
- 2009-11 Laboratory Instructor, Principles of Biology I and II, Iowa State U
- 2008-09 Laboratory Instructor, Herpetology, Iowa State University. Designed and instructed laboratory component; presented guest lectures
- 2007 Research assistant, U Minnesota, post-fledging habitat use of forest songbirds
- 2005-07 Fulbright Graduate Fellow, Victoria University of Wellington, New Zealand
- 2005 Curatorial assistant, Herpetology and Ichthyology Collections, James Ford Bell Museum of Natural History, U Minnesota
- 2004-05 Interpretive Specialist, Wood Lake Nature Center, Richfield, Minnesota
- 2004 Laboratory Instructor, Evolutionary and Ecological Perspectives, U Minnesota
- 2003 Laboratory Instructor, General Zoology, U Minnesota
- 2002 Laboratory Instructor, Human Anatomy, Indiana-Purdue Univ Fort Wayne
- 2001 Lead research technician, Indiana-Purdue Univ Fort Wayne, habitat use and movement patterns by massasauga rattlesnakes in Michigan
- 2001-02 Natural Heritage and Nongame Research Technician, Minnesota Department of Natural Resources
- 1999 Research Experience for Undergraduates Program, Mountain Lake Biological Station, University of Virginia
- 1997-02 Interpretive Specialist, Springbrook Nature Center, Fridley, Minnesota

SYNERGISTIC ACTIVITIES

- 2015-17 Associate Editor, Wildlife Society Bulletin
- 2014 Applications referee, 2015 New Generation of Polar Researchers Symposium
- 2013-14 Summer course instructor, White Earth Indian Reservation Math and Science Academy, White Earth, Minnesota
- 2013-15 Save the Frogs Day conservation programs for kindergarten students, UC Berkeley
- 2013-14 Referee, Herpetologists' League E.E. Williams graduate research grant

- 2011 Environmental education, Pleasant Street Elementary, Mount Vernon, Ohio
- 2010 Conference treasurer, Midwest Ecology and Evolution Conference, Ames, Iowa
- 2010 Organizational committee and session leader, Iowa State U Center for Excellence in Learning and Teaching, university teaching seminar for new faculty and teaching assistants
- 2010 Science education, St. Cecilia Elementary School, Ames, Iowa
- 2009-10 Preparing Future Faculty Program, Iowa State University
- 2009-11 Treasurer, EEB Dept. Graduate Student Organization, Iowa State University
- 2008-11 Treasurer, EEB Program Graduate Student Organization, Iowa State U
- 2008-09 Environmental education, Camanche Elementary School, Camanche, Iowa
- 2008 Graduate student mentor, Turtle Camp Research and Education in Ecology (Ecological Society of America, SEEDS program), Thomson, Illinois
- 2004-05 Field Instructor, James Ford Bell Museum of Natural History, Eisenhower Teacher Training Series – Inquiring Minds. Designed and taught herpetology and mammalogy sections at Lake Itasca State Park, Park Rapids, Minnesota

Reviewer: Amphibia-Reptilia, Animal Behaviour, Animal Conservation, Austral Ecology, Behavioral Ecology, Behavioral Ecology and Sociobiology, Canadian Journal of Zoology, Copeia, Ecology, Ecoscience, Endangered Species Research, Environmental Biology of Fishes, Ethology, Global Change Biology, Herpetologica, Herpetology Notes, Herpetological Review, Journal of Ethology, Journal of Herpetology, Journal of Thermal Biology, Journal of Wildlife Management and Wildlife Monographs, Revista Mexicana de Biodiversidad, Wildlife Society Bulletin

Affiliations: American Society of Ichthyologists and Herpetologists, Ecological Society of America, Herpetologists' League, Sigma Xi, Society for the Study of Amphibians and Reptiles, Society for the Study of Evolution, The Wildlife Society

Professional licensure: Federal Bird Banding sub-permittee (22259-A)