

Curriculum vitae of
Joseph Ross Milanovich

Wildlife Ecology and Management Program
Warnell School of Forestry and Natural Resources
University of Georgia
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EDUCATION

- In progress* Ph.D. Candidate. Wildlife Ecology and Management Program, Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia
Adviser: Dr. John C. Maerz
- In progress* Interdisciplinary Certificate in University Teaching, University of Georgia
- 2006 M.S. Biology. Department of Biology, Arkansas State University, State University, AR. Adviser: Dr. Stanley E. Trauth
- 2002 B.A. Biology and Environmental Science. Adrian College, Adrian, MI

RESEARCH INTEREST

Importance of species to ecosystem processes
Consumer-resource stoichiometry
Nutrient cycling in headwater streams
Global climate change
Stable isotope ecology
Plethodontid salamander ecology
Herpetology

TEACHING EXPERIENCE

- 2007 - 2009 **Graduate Teaching Assistant**, University of Georgia, Athens, GA
- Animal Behavior
 - Herpetology
 - Waterfowl Management
- 2005 –2006 **Graduate Teaching Assistant**, Arkansas State University, State University, AR
- Introductory Biology
 - Microbiology of Nursing and Allied Health
- 2009 **Teaching Related Workshops**
- Development of Teaching Portfolio, UGA Center for Teaching and Learning
 - Development of Teaching Rubrics, UGA Center for Teaching and Learning

Invited Lectures: General Biology (Gainesville State College; 2007); Herpetology (University of Georgia; 2007, 2008), Vertebrate Natural History (University of Georgia; 2008); General Ecology (Piedmont College; 2008)

STUDENTS SUPERVISED

Amanda Perofsky. 2008. REU Summer Technician, University of Georgia. Project title: Density of Stream Salamander Guilds at Coweeta Hydrological Laboratory LTER site: Comparison of Robust Design Models.

GRANTS & AWARDS RECEIVED

Authored Grants

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| 2008 <i>Distribution and Life History of a Newly Discovered Plethodontid Salamander in Georgia</i> - Georgia Department of Natural Resources | \$4430 |
| 2008 <i>Importance of Larval Plethodontid Salamanders to Stream Ecosystems</i>
Theodore Roosevelt Memorial Grant – American Museum of Natural History | \$1500 |
| 2008 <i>Experimentally Testing the Consequence of a Decline in Plethodontid Salamanders in the Southern Appalachians</i> – North Carolina Herpetological Society | \$900 |

Awards

- 2009 Inducted member of Gamma Sigma Delta Honors Society
- 2008 Inducted member of Xi Sigma Pi Honors Society
- 2008 2nd place student presentation – Section five. D. B. Warnell School of Forestry and Natural Resources Graduate Symposium. Athens, GA. February 28-29.
- 2006 1st place student presentation – Graduate Environmental Sciences. 90th Annual Meeting of the Arkansas Academy of Science. Batesville, AR. April 7-9.

PUBLICATIONS

Davis, A.K., and **J.R. Milanovich**. In review. Lead-phase and red-stripe color morphs of red-backed salamanders (*Plethodon cinereus*) differ in hematological stress indices: a consequence of differential predation pressure? *Current Zoology*.

Milanovich, J.R., S.E. Trauth, and D. Saugey. In review. Short-term Response of a woodland salamander to a prescribed burn in the Ouachita National Forest, Arkansas. *Southwestern Naturalist*.

- Davis, A.K., J.L. DeVore, **J.R. Milanovich**, K. Cecala, J.C. Maerz, and M.J. Yabsley. In press. New findings from an old pathogen: intraerythrocytic bacteria (Family Anaplasmatacea) in red-backed salamanders *Plethodon cinereus*. Ecohealth.
- Camp, C.D., W.E. Peterman, **J.R. Milanovich**, T. Lamb, J.C. Maerz and D.B. Wake. 2009. A new genus and species of lungless salamander (family Plethodontidae) from the Appalachian highlands of the southeastern United States. *Journal of Zoology* 279:86-94.
- Davis, A.K., **J.R. Milanovich**, J. DeVore, J.C. Maerz. 2009. An investigation of factors influencing erythrocyte morphology of red-backed salamanders (*Plethodon cinereus*). *Animal Biology* 59: 201-209.
- Milanovich, J.R.**, S.E. Trauth., and T. McKay. 2008. Diet of the western slimy salamander (*Plethodon albagula*) from two mountain ranges in Arkansas. *Southeastern Naturalist* 7:323-330.
- Milanovich, J.R.**, S.E. Trauth., D.A. Saugey, and R.A. Jordan. 2006. Fecundity, reproductive ecology, and influence of precipitation on clutch size in the western slimy salamander (*Plethodon albagula*). *Herpetologica* 62: 292-301.

Shorter contributions

- Milanovich, J.R.**, S.E. Trauth, and D.A. Saugey. 2007. *Plethodon albagula* (Western Slimy Salamander). Brooding defense behavior and oophagy. *Herpetological Review* 38: 67.
- Milanovich, J.R.**, J. Anfinson., T. J. Bader., R. J. Baxter., S. C. Brandebura., S. A. Deviney., W. R. Hiler., J. Learned, M. W. Matthews., C. R. Mcdowell., R. G. Neal., N. T. Stephens., J. P. Stewart., B. A. Wheeler, and S. E. Trauth. 2005. *Sonora semiannulata* (Ground Snake). Geographic Distribution and range extension. *Herpetological Review* 36: 340
- Milanovich, J.R.**, S.E. Trauth., and M.N. Mary. 2005. *Diadophis punctatus sticktogenys* (Mississippi Ringneck Snake). Diet. *Herpetological Review* 36: 323-324
- Milanovich, J.R.** and S.E. Trauth. 2005. *Plethodon albagula* (Western Slimy Salamander). Vocalization. *Herpetological Review* 36:295-296.

PROFESSIONAL PRESENTATIONS

Paper (First-authored)

- 2009 94th Ecological Society of America Annual Meeting, Albuquerque, NM. **Milanovich, J.R.**, N. Nibbelink, W.E. Peterman, and J.C. Maerz. Here today, gone tomorrow: Projected loss of a salamander diversity hotspot as a consequence to global climate change.

- 2009 Coweeta Hydrological Laboratory LTER Annual Meeting, Otto, NC. **Milanovich, J.R.**, J.C. Maerz, N. Nibbelink, and A.D. Rosemond. Modeling potential climate change effects on southern Appalachian salamanders and stream function.
- 2009 D.B. Warnell School of Forestry and Natural Resources Graduate Student Symposium, Athens, GA. **Milanovich, J.R.**, J.C. Maerz, and A.D. Rosemond. Nutrient storage, density and consumer-resource stoichiometry of plethodontid salamanders.
- 2008 Global Meeting of the Society for Conservation Biology, Chattanooga, TN. **Milanovich, J.R.**, J.C. Maerz, and A.D. Rosemond. Influence of a long-term nutrient enrichment and a single fungicide treatment on the abundance and nutrient composition of plethodontid salamanders.
- 2008 D.B. Warnell School of Forestry and Natural Resources Graduate Student Symposium, Athens, GA. **Milanovich, J.R.**, and J.C. Maerz. Stable isotope variability and use of tail clips for stable isotope research in plethodontid salamanders.
- 2006 Georgia Chapter of the Wildlife Society Meeting, Athens, GA. **Milanovich, J.R.**, and S.E. Trauth, and D.A. Saugey. Effects of prescribed burning on the reproduction of the western slimy salamander (*Plethodon albagula*) in Arkansas.
- 2006 Annual Meeting of the Arkansas Academy of Science, Batesville, AR. **Milanovich, J.R.**, and S.E. Trauth. Effects of prescribed burning on the reproduction of the western slimy salamander (*Plethodon albagula*) in Arkansas.
- 2005 Meeting of Kansas Herpetological Society, Pittsburg, KS. **Milanovich, J.R.**, S.E. Trauth, and D.A. Saugey. Reproductive ecology of the western slimy salamander (*Plethodon albagula*): Use of an abandoned mine shaft.
- 2005 Joint Meeting of Ichthyologist and Herpetologist, Tampa, FL. **Milanovich, J.R.**, S.E. Trauth, and D.A. Saugey. The reproductive ecology of the western slimy salamander (*Plethodon albagula*) from a mine shaft in the Ouachita National Forest, Arkansas.

Poster

- 2009 Long-term Ecological Research Site All Scientist Meeting. Estes Park, CO. **Milanovich, J.R.**, J.C. Maerz, N. Nibbelink, W.E. Peterman, and A.D. Rosemond. Modeling the influence of global climate change on Appalachian salamanders and stream function.
- 2008 Southeastern Partners in Amphibian and Reptile Conservation Annual Meeting. Athens, GA. Camp, C.D., **J.R. Milanovich**, W.E. Peterman, T. Lamb, J.C. Maerz, and D.B. Wake. A new, tiny species of plethodontid from the Appalachian foothills of northern Georgia.

- 2007 Southeastern Partners in Amphibian and Reptile Conservation Annual Meeting, Chattanooga, TN. **Milanovich, J.R.**, and J.C. Maerz. 2007. The use of salamander tail clips for stable isotope research.
- 2005 Annual Meeting of the Arkansas Academy of Science, Conway, AR. **Milanovich, J.R.**, S.E. Trauth, D.A. Saugey. 2005. The reproductive ecology of the western slimy salamander (*Plethodon albagula*) from a Mine Shaft in the Ouachita National Forest, Arkansas.

Invited seminars

- 2009 University of Georgia Herpetological Society, Athens, GA. Milanovich, J.R. *Introducing the Patch-nosed Salamander.*
- 2009 University of Georgia Herpetological Society, Athens, GA. Milanovich, J.R. *Amphibian Conservation: What is all the croak about?*

ADDITIONAL SCHOLARY AND SERVICE ACTIVITIES

Assistant editor: Herpetological Conservation and Biology

Peer-reviewer: Journal of Herpetology, Southeastern Naturalist, Northeastern Naturalist, and Herpetological Conservation and Biology

Scientific Adviser: “Life in Cold Blood” British Broadcasting Channel Program

PROFESSIONAL EXPERIENCE

- 2006 - present **Graduate Research Assistant**, University of Georgia, Athens, GA. Designed, implemented and analyzed a number of ecological studies. Lead technician on NSF funded project investigating impact of exotic earthworms on ecosystems, a project examining the discovery of new genus of salamander in Georgia, and various projects involving salamander ecology and ecosystem function at the Coweeta LTER site in North Carolina
- 2004 – 2006 **Graduate Research Assistant**, Arkansas State University, State University, AR
- 2003 –2004 **Wildlife Biologist**, Wildlife Plus Consulting, Alto, NM
- 2002 – 2003 **Environmental Education Instructor**, Camp McDowell Environmental Center, Nauvoo, AL
- 2002 **Wildlife Biologist**, Turnstone Environmental Consultants, Portland, OR
- 2001 **Student Conservation Association Biological Technician**, Mount Rainier National Park, Ashford, WA

2000 **Student Conservation Association Biological Technician**, Cape Cod National
Seashore, Wellfleet, MA

PROFESSIONAL SOCIETIES

Ecological Society of America
Society for Conservation Biology
Society for the Study of Amphibians and Reptiles

TECHNICAL SKILLS

- Mark-recapture (capture-recapture) techniques
- Population estimation using count data
- ArcGIS/ArcMap
- Program WinBugs
- Program MaxEnt

REFERENCES

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