

# Julie M. Ray

## Curriculum Vitae

12458 132<sup>nd</sup> Street  
Chippewa Falls, WI, 54729  
Phone: (715)288-6224

La MICA Biological Station  
El Copé, Coclé, Republic of Panama  
[julie.ray@lamica.org](mailto:julie.ray@lamica.org)

---

### EDUCATION

- PhD Doctorate of Philosophy in Ecological Sciences – Old Dominion University** (December 2009)  
Dissertation: Ecology of a Neotropical arboreal snake assemblage and diet and defensive tactics of New World mollusk-eating snakes.  
Advisor: Alan H. Savitzky
- MS Masters of Science in Biological Sciences – Northern Illinois University** (May 2004)  
Thesis: Temporal Variation in Color Pattern and Ecological Effects of the Exotic Round Goby on Lake Erie watersnakes, *Nerodia sipedon insularum*  
Advisor: Richard B. King
- BS Bachelors of Science – University of Wisconsin – Stevens Point** (May 2000)  
Biology Major and Broad Field Science Minor  
Advisors: Robert A. Bell and Erik R. Wild
- 

### RECENT PROFESSIONAL EXPERIENCE

#### Founder & Director

2007-Present La MICA Biological Station, El Copé, Coclé, Republic of Panama (<http://www.lamica.org>)

#### Founder & Representative

2013-Present La MICA Reserve U.S. Foundation (through Cloud Forest Institute)

2008-Present Fundación Centro de Investigación Biológica El Copé, S.A. (Panamanian foundation)

2009-2012 Amigos Support La MICA U.S. Foundation (through International Humanities Center)

#### Adjunct Faculty

2013-Present Department of Biology, Missouri State University, Springfield, Missouri

2012-Present Department of Biology, Towson University, Towson, Maryland

#### Research Associate

2012-Present Department of Biology, Towson University, Towson, Maryland

#### Lecturer

2014 Panama Herpetology. New Mexico State University and La MICA Biological Station. El Copé, Panama.

2006 Vertebrate Zoology. Biological Sciences course 209. Old Dominion University. Norfolk, VA.

---

### RECENT RESEARCH AND FIELD STUDIES

#### Field Researcher

2013-Present Conservation of Bushmasters in Panama and Costa Rica (in collaboration with The Orianne Society)

2011-Present Systematics of Panamanian squamates (in collaboration with Dr. Frank Burbrink [CUNY] and Dr. Alex Pyron [George Washington University])

2011-Present Endoparasites of Panamanian snakes (in collaboration with Gorgas Institute, Panama City, Panama)

2010-Present DNA Barcoding of Panamanian snakes and lizards (in collaboration with National Museum of Natural History; Washington DC)

2006-Present Status of amphibian & reptiles following Chytridiomycosis-induced amphibian declines

# Julie M. Ray

---

## ACADEMIC AWARDS AND ACHIEVEMENTS

### Wisconsin Division of Vocational Rehabilitation

2007 Career Achievement Award

### Joint Meeting of Ichthyologists and Herpetologist

2006 Seibert Award of Evolution - \$200

### Southeastern Ecology and Evolution Conference

2006 Best Poster Presentation - \$100

### Old Dominion University

2009 Second Place; Biological Graduate Students Organization Art Contest

2008 First Place Presentation; Biological Graduate Students Organization Spring Symposium

2006 Best Biological Sciences Presentation; Biological Graduate Students Organization Spring Symposium - \$25

2005-2006 University Fellowship - \$15,000 + \$5000 tuition waiver

---

## GRANTS (Total received: \$31,247.50)

**\$8838** The Mohamed bin Zayed Species Conservation Fund. *Changes in upper tropical levels as a result of chytridiomycosis-induced amphibian declines*. June 2013.

**\$1000** Respect the Snake. *Impacts of chytridiomycosis on the snake community of Omar Torrijos National Park*. May 2011.

**\$400** North Carolina Herpetology Society. *Changes in upper trophic levels as a result of chytridiomycosis-induced amphibian declines*. November 2010.

**\$887.50** Sophie Danforth Conservation Biology Fund. *A conservation-oriented effort to understand a chytridiomycosis-induced trophic cascade*. September 2007.

**\$500** Grants-in-Herpetology; Society for the Study of Amphibians and Reptiles. *Three-dimensional study of a midelevation Neotropical snake community*. July 2007.

**\$2380** Wisconsin Division of Vocational Rehabilitation. *Survey of mollusk-eating snakes of central Panama*. May 2006.

**\$15,000** (with Dr. Alan Savitzky) National Science Foundation Disability Accommodation Grant. *Survey of mollusk-eating snakes of central Panama*. May 2006.

**\$600** Sigma Xi. *Effects of amphibian decline on the trophic ecology of mollusk-eating snakes*. April 2006.

**\$500** American Society of Ichthyologists and Herpetologists Gaige Award. *Physiological and Behavioral Ecology of a Predator Feeding on a Chemically Defended Invasive Species in Central California*. March 2006.

**\$480** Chicago Herpetological Society. *Effects of amphibian decline on the trophic ecology of mollusk-eating snakes*. February 2006.

**\$9000** (with Dr. Alan Savitzky) National Science Foundation Disability Accommodation Grant. April 2005.

---

## PUBLICATIONS – PROFESSIONAL – BOOKS

Ray, J.M. and J.L. Knight. 2013. The Venomous Snakes and their Mimics of Panama and Costa Rica/Las Culebras Venenosas y sus Mímicas de Panamá y Costa Rica. CreateSpace.

---

## RELEVANT PUBLICATIONS – PROFESSIONAL – PEER-REVIEWED PAPERS AND NOTES

Ray, J.M., M. Castillo H., P. Ruback, and J.L. Knight. *Amphisbaena varia* (Linnaeus, 1758) (Amphisbaenia: Amphisbaenidae): New distributional records from western Panama. *In press* (Herpetology Notes).

# Julie M. Ray

---

## RELEVANT PUBLICATIONS – PROFESSIONAL – PEER-REVIEWED PAPERS AND NOTES continued

- Elizondo Lara, L., Á. Sosa, P. Ruback, and **J.M. Ray**. Range extension and natural history observations of a rare Panamanian snake, *Geophis bellus* Myers, 2003 (Dipsadinae: Colubridae). *In review* (Check List).
- Knight, J.L., **J.M. Ray**, and J.A. Wedow. *Masticophis mentovarius* (Dumeril, Bibron, and Dumeril, 1854) (Squamata: Serpentes: Colubridae): Range Extension and New Province Record from Panama. *In review* (Check List).
- Duran-Geiger, R., N. Duran-Geiger, and **J.M. Ray**. *Ninia sebae* (Coffee snake) Geographic Distribution. *In Press* (Herpetological Review).
- Ray, J.M.** *Urotheca fulviceps* (Red-Headed Glasstail) Geographic Distribution. *In Press*. (Herpetological Review).
- Vecchiet, J., **J.M. Ray**, J.L. Knight, and J. Wedow. *Dipsas articulata* (Red Striped Thirst Snake) Geographic Distribution. *In Press* (Herpetological Review).
- Ray, J.M.** *Sibon argus* (Blotched Snailleater) Geographic Distribution. *In Press*. (Herpetological Review).
- Ray, J.M.** *Ungaliophis panamensis* (Southern Bromeliad Boa) Geographic Distribution. *In Press* (Herpetological Review).
- Herse, M.R. and **J.M. Ray**. 2014. A review and correction of data on a poorly known leaf litter snake, *Trimetopon slevini* (Dunn, 1940), from Panama, including additional data on defensive behaviours. *Herpetology Notes* 7:359-361.
- Ray, J.M.** 2013. *Micrurus nigrocinctus* (Central American Coralsnake) Diet. *Herpetological Review* 44(4):695.
- Lewis, T.R., R.K. Griffin, P.B.C. Grant, A. Fiuroa, **J.M. Ray**, K.E. Graham, and G. David. 2013. Morphology and ecology of *Sibon* snakes from two Neotropical forests in Mesoamerica. *Phylomedusa* 12(1):47-55.
- Myers, E.A., S. Ruane, K. Knight, J.L. Knight, and **J.M. Ray**. 2013. Distribution record of *Tantilla alticola* Boulenger, 1903 (Squamata: Colubridae) in Coclé Province, Republic of Panama. *Checklist* 9(1):151-152.
- Ray, J.M.**, C.E. Montgomery, H.K. Mahon, A.H. Savitzky & K.R. Lips. 2012. Goo-Eaters: Diets of the Neotropical snakes *Dipsas* and *Sibon* in central Panama. *Copeia* 2012(2):197-202.
- Ray, J.M.** and P. Santana. 2012. *Erythrolamprus mimus* (Stripe-Bellied False Coral). Diet. *Herpetological Review* 43(2):345.
- Ray, J.M.** 2012. Bridging the Gap: Interspecific differences in the cantilevering ability in a Neotropical arboreal snake assemblage. *South American Journal of Herpetology* 7(1):35-40.
- Ray, J.M.**, J.L. Knight, and P. Santana. 2012. *Micrurus nigrocinctus* (Central American Coralsnake) Diet. *Herpetological Review* 43(1):148.
- Knight, J.L., **J.M. Ray**, and K. Baumgartner. 2012. *Tantilla armillata* (Black-Necked Crown Snake) Reproduction. *Herpetological Review* 43(1):152-153.
- Ray, J.M.** 2011. *Leptophis nebulosus* (Yellow-Lipped Parrotsnake) Geographic Distribution. *Herpetological Review* 42(4):573.
- Baumgartner, K. A. and **J. M. Ray**. 2011. *Bothrops asper* (Terciopelo). Arboreal Behavior. *Herpetological Review* 42(4):611.
- Ray, J.M.**, D. Küng, and P. Santana. 2011. *Erythrolamprus bizona* (Black Ringed False Coral Snake) Arboreality. *Herpetological Review* 42(4):613-614.
- Ray, J.M.**, A. Hein, A. González, S. Goetz & M. Miller. 2011. *Imantodes cenchoa* (Brown Blunt-Nosed Vine Snake) Maximum Size. *Herpetological Review* 42(4):614-615.

# Julie M. Ray

---

## RELEVANT PUBLICATIONS – PROFESSIONAL – PEER-REVIEWED PAPERS AND NOTES continued

- Ray, J.M.** 2011. *Atropoides mexicanus* (Central America Jumping Pitviper) Geographic Distribution. *Herpetological Review* 42(3):392.
- Montgomery, C.E., K.R. Lips, & **J.M. Ray**. 2011. Ontogenetic shift in sleeping perch height in Cope's vine snake, *Oxybelis brevirostris*. *The Southwestern Naturalist* 56(3):358-362.
- Ray, J.M.**, B. Wilson, E.J. Griffith Rodriguez & H.L. Ross. 2011. *Sibon argus* (Blotched Snail Sucker) Diet. *Herpetological Review* 42(1):102-103.
- Ray, J.M.**, A. Hein, A. González, S. Goetz & M. Miller. 2011. *Imantodes cenchoa* (Brown Blunt-Nosed Vine Snake) Diet. *Herpetological Review* 42(1):100.
- Jadin, R.C., S.A. Orlofske & **J.M. Ray**. 2010. *Hemidactylus frenatus* (Common House Gecko). Geographic Distribution. *Herpetological Review* 41(4):512.
- Ray, J.M.** 2009. Ecology of a Neotropical arboreal snake assemblage and diet and defensive tactics of New World mollusk-eating snakes. Unpublished doctoral dissertation. Old Dominion University. Norfolk, VA.
- Montgomery, C.E., **J.M. Ray**, A.H. Savitzky, E.R. Griffith-Rodriguez, H.L. Ross & K.R. Lips. 2007. *Sibon longifrenis* (Drab Mollusk-Eater) Diet. *Herpetological Review* 38(3):343.
- 

## RECENT INVITED SEMINARS & KEYNOTE ADDRESSES

- Ray, J.M.** January 2013. Conservation in the Midst of Ecological Disaster. University of Wisconsin-Eau Claire Department of Biology Departmental Seminar. Eau Claire, WI.
- Ray, J.M.** September 2011. Conservation in the Midst of Ecological Disaster. Savanna River Ecology Laboratory Seminar Series. Aiken, SC.
- Ray, J.M.** September 2011. Conservation in the Midst of Ecological Disaster. Winthrop College Department of Biology Departmental Seminar. Rock Hill, SC.
- Ray, J.M.** January 2011. Conservation in the Midst of Ecological Disaster. South Carolina Association of Naturalists Annual Meeting. Columbia, SC.
- 

## SERVICE POSITIONS

### Journal Reviewer

Journal of Herpetology	Phyllomedusa
South American Journal of Herpetology	Herpetological Journal
Checklist	Biological Journal of the Linnean Society
Zoologica	

### Journal Country Representative, Panama

Mesoamerican Herpetology

### Journal Social Media Coordinator

Mesoamerican Herpetology