

Odum School of Ecology
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Andrew M. Kramer

EDUCATION

Ph.D., Fisheries and Wildlife/Ecology, Evolutionary Biology and Behavior, 2007, Michigan State University

Advisor: Orlando Sarnelle

Dissertation title: Copepodology in alpine lakes: limitations to recovery of *Hesperodiptomus shosone* after exotic fish eradication

Bachelor of Science, 2000, Saint Louis University

Honors degree, Biology (*summa cum laude*)

GRANTS AND SCHOLARSHIPS

Research Grants

National Science Foundation Graduate Research Fellowship, 2001-2005

Valentine/Eastern Sierra Reserve Graduate Student Grant, University of California Reserve System, 2006 (\$1500)

Sigma Xi Grant-in-Aid of Research, 2006 (\$580)

Michigan State University Graduate School Research Enhancement Award, 2005 (\$1000)

Research Experience for Undergraduates Supplement to NSF award "Recovery of ecosystem structure and function following exotic species eradication" (co-authored with PIs Orlando Sarnelle and Roland Knapp), 2002 (\$6000)

Scholarships

Michigan State University Dissertation Completion Fellowship, 2007

Michigan State University Ecology, Evolutionary Biology and Behavior Fellowship, 2006

Michigan State University Distinguished Fellowship, 2000 and 2004

PEER-REVIEWED PUBLICATIONS

Kramer, A. M., B. Dennis, A.M. Liebhold, and J. M. Drake. The evidence for Allee effects. (In press, Population Ecology special issue: Mate-Location Failure, Allee Effects and the Establishment of Invading Populations)

Kramer, A., O. Sarnelle and R. A. Knapp. 2008. Allee effect limits colonization success of sexually reproducing zooplankton. *Ecology* 89: 2760–2769.

Kramer, A. M. and O. Sarnelle. 2008. Limits to genetic bottlenecks and founder events imposed by the Allee effect. *Oecologia* 157:561-569.

Kramer, A. M. and L. Francis. 2004. Predation resistance and nematocyst scaling for *Metridium senile* and *M. farcimen*. *Biological Bulletin* 207 (2): 130-140.

Papers in review

Kramer, A. M. and J. M. Drake. Experimental demonstration of population extinction due to a predator-driven Allee effect.

Papers in preparation

Kramer, A.M. and J. Yen. The role of chemical trails in *Hesperodiptomus shoshone* mating behavior and its impact on critical population density.

Sehn, J., **A.M. Kramer** and J. Yen. Chemically-mediated mate tracking behavior in the

freshwater copepod *Hesperodiaptomus shoshone*.

RESEARCH POSITIONS

Postdoctoral researcher, Odum School of Ecology, University of Georgia, Oct. 2007-present.

Dynamics of low density populations, including the impact of Allee effects on colonization success in freshwater zooplankton. Mentor: Dr. John Drake

Ph.D. candidate, Michigan State University, Department of Fisheries and Wildlife, Aug. 2000-Aug. 2007. Copepodology in alpine lakes: limitations to recovery of *Hesperodiaptomus shosone* after exotic fish eradication, advisor Dr. Orlando Sarnelle

Field Technician, Sierra Nevada Aquatic Research Laboratory, 2000. High Sierra experimental lakes project, with Dr. Roland Knapp and Dr. Orlando Sarnelle

Senior Inquiry, Saint Louis University, 1999. The effects of fragmentation on prairie restoration, with Dr. Gerardo Camilo

Research Experience for Undergraduates, Western Washington University, 1999. Predation resistance and nematocyst scaling for *Metridium senile* and *M. farcimen*, with Dr. Lisbeth Francis

TEACHING EXPERIENCE (Year/# of students)

Co-Instructor, ECOL 4000/6000 Population and Community Ecology, University of Georgia (Fall 2008 / 20).

Instructor, ECOL 3500 Ecology, University of Georgia (Summer 2008 / 28).

Teaching Assistant, ISP 217L Water and the Environment Laboratory, Michigan State University (2007, 2006, 2005 / 80 each semester)

Teaching Assistant, MMG 426 Biogeochemistry, Kellogg Biological Station, Michigan State University (2006 / 12)

Guest Lecturer, ECOL 8310 Population Ecology, University of Georgia (2008 / 12)

Guest Lecturer, FW 443 Restoration Ecology, Michigan State University (2006 / 25)

Guest Lecturer, FW 109 Conservation of Freshwater Ecosystems, Michigan State University (2002 / 40)

MENTORING EXPERIENCE

Advisor for undergraduates assisting with my Ph.D. research and the High Sierra Experimental Lakes Project

Summer 2004: Chris Brownfield

Summer 2003: Greg Goldsmith

Project: *Dispersal of limnetic zooplankton via streams in Humphreys Basin, Sierra Nevada*

Advisor for NSF Research Experience for Undergraduates student

Summer 2002: Blair Wilson

Project: *Detecting mating pheromones in Hesperodiaptomus shoshone*

PRESENTATIONS AND WORKSHOPS

Invited:

Eco-DAS symposium, University of Hawaii-Manoa, October 2008

Auburn University, Fisheries and Allied Aquaculture seminar, September 2008

Michigan State University, Fisheries and Wildlife Graduate Student Organization seminar series
April 2006

Contributed:

Kramer, A.M. and J.M. Drake. Allee effect due to predator functional response: effects on population growth rate and extinction in an experimental zooplankton system. Ecological

Society of America 2008, Milwaukee, WI. (poster)

Kramer, A.M. and O. Sarnelle. The Allee effect limits the loss of genetic variability during population bottlenecks. Ecological Society of America 2007, San Jose, CA.

Kramer, A.M. and O. Sarnelle. Allee effect on population growth rate in sexually reproducing zooplankton. American Society of Limnology and Oceanography 2007 Aquatic Sciences meeting, Santa Fe, NM

Kramer, A.M., Sarnelle, O, and Knapp, R.A. Allee effect limits re-establishment of an alpine copepod: multi-lake stocking experiment. American Society of Limnology and Oceanography 2005 Summer meeting, Santiago de Compostela, Spain

PROFESSIONAL AND LEADERSHIP ACTIVITIES

Responsible Conduct of Research, 6 part seminar series on research ethics, completed in 2005
Graduate representative, Fisheries and Wildlife Department Graduate Committee, Fall 2004-Spring 2006

Reviewer for: Oikos, Limnology and Oceanography, Restoration Ecology, Population Ecology, Transactions American Fisheries Society

Professional Societies: Ecological Society of America, American Society of Limnology and Oceanography

HONORS AND AWARDS

Fisheries and Wildlife Department Graduate Student Organization travel grant, 2005 and 2007

Ecology, Evolutionary Biology and Behavior program travel grant, 2005 and 2007

Saint Louis University, Outstanding Senior in Department of Biology, 2000

Dean's Scholarship, Saint Louis University, 1996-2000