

DEAN C. ADAMS

Department of Ecology, Evolution, and Organismal Biology (EEOB), and Department of Statistics (courtesy), 253 Bessey Hall, Iowa State University, Ames, Iowa 50011. 515-294-3834; dcadams@iastate.edu, <http://www.public.iastate.edu/~dcadams>

ACADEMIC TRAINING

1999. Ph.D. State University of New York at Stony Brook. Ecology and Evolution.
1994. M.S. University of Louisiana, Lafayette. Biology.
1992. B.A. Franklin and Marshall College. Biology.

CURRENT POSITIONS

- 2006-present. **Associate Professor.** Department of Ecology, Evolution, and Organismal Biology, Iowa State University, Ames, Iowa
2006-present. **Associate Professor.** Department of Statistics, Iowa State University, Ames, Iowa.

PROFESSIONAL SERVICE

- 2004-present. **Associate Editor.** *Herpetologica*.

GRANTS, AWARDS, AND FELLOWSHIPS (LAST 5 YEARS AND OVER \$5,000)

- 2005-2010. **National Science Foundation.** "CAREER: Evolutionary community ecology in *Plethodon* salamanders." (DEB-0446758). **\$500,885.**
- 2007: REU Supplement (DEB-0817853) **\$6,000.**
 - 2007: REU Supplement (DEB-0723929) **\$12,000.**
 - 2006: REU Supplement (DEB-0618243). **\$6,000.**
 - 2005: ROA Supplement (DEB-0535825). **\$25,719.**
 - 2005: REU Supplement (DEB-0527317). **\$7,000.**
- 2001-2003. **National Science Foundation.** "Research Starter Grant: The morphological consequences of competition in *Plethodon* salamanders." (DEB-0122281). **\$35,000.**

PUBLICATIONS: 57 total (and 6 submitted). 1 edited volume, 44 journal articles, 7 reviewed book/proceedings chapters, 2 software packages (with manuals), 3 book reviews.

SELECTED RECENT PUBLICATIONS (FROM 57 TOTAL)

- Adams, D.C. 2008. Phylogenetic meta-analysis. *Evolution*. 62:567-572.
Adams, D.C., and J.O. Church. 2008. Amphibians do not follow Bergmann's rule. *Evolution*. 62:413-420.
Adams, D.C. 2007. Organization of *Plethodon* salamander communities: guild-based community assembly. *Ecology*. 88:1292-1299.
Adams, D.C., and M.L. Collyer. 2007. Analysis of character divergence along environmental gradients and other covariates. *Evolution*. 61:510-515.
Adams, D.C., M.E. West, and M.L. Collyer. 2007. Location-specific sympatric morphological divergence as a possible response to species interactions in West Virginia *Plethodon* salamander communities. *Journal of Animal Ecology*. 76:289-295.
Adams, D.C., and M.M. Cerney. 2007. Quantifying biomechanical motion using Procrustes motion analysis. *Journal of Biomechanics*. 40:437-444.
Arif, S., D.C. Adams, and J.A. Wicknick. 2007. Bioclimatic modeling, morphology, and behavior reveal alternative mechanisms regulating the distributions of two parapatric salamander species. *Evolutionary Ecology Research*. 9:843-854.
Collyer, M.L., and D.C. Adams. 2007. Analysis of two-state multivariate phenotypic change in ecological studies. *Ecology*. 88:683-692.

Collyer, M.L., C.A. Stockwell, D.C. Adams, and M.H. Reiser. 2007. Phenotypic plasticity and contemporary evolution in introduced populations: evidence from translocated populations of white sands pupfish. *Ecological Research*. 22:902-910.

COLLABORATORS IN THE PAST 48 MONTHS (excluding students)

A. Ambali, R. Bowden, M. Collyer, M. Condon, M. Corti, J. Hollander, M. Hori, H. Horner, R. Jaeger, F. Janzen, K. Johannesson, D. Kassam, A. Loy, J. Maerz, G. Naylor, F. J. Rohlf, D. Slice, C. Stockwell, J. Tucker, N. Valenzuela, C. Vleck, J. Wendel, J. Wicknick, J. Wiens, K. Yamaoka

COURSES DEVELOPED

Vertebrate Biology. (4 credit undergraduate).

Morphometric Analysis. (4 credit graduate).

Advanced Biostatistics. (1 credit graduate).

Phylogenetic Comparative Methods. (1 credit graduate).

Workshop in Geometric Morphometrics: 1-week intensive workshop containing daily lectures (16 total) followed by practical laboratories for participants. (co-developed with D.E. Slice and F.J. Rohlf).

EDUCATIONAL OUTREACH

I regularly co-teach 1-week intensive workshops on Geometric Morphometrics at various institutions.

2006. Workshop in Geometric Morphometrics. Middle Eastern Technical University, Ankara, Turkey.

2006. Workshop in Geometric Morphometrics. Iowa State University, Ames, IA.

2004. Workshop in Geometric Morphometrics. Umeå University, Umeå Sweden.

2002. Geometric Morphometrics Workshop. Museo Civico di Zoologica, Rome, Italy.

2001. Geometric morphometrics: basic concepts and applications. Departamento de Ciencias Ecológicas, Universidad de Chile, Santiago de Chile, Chile.

HONORS AND AWARDS

2005. National Science Foundation. CAREER Award.

2003. Iowa State University. Excellence in Education Award Nominee (student-nominated).

2002. CIES Fulbright Foundation. "Research/Lecture Exchange: Morphometric quantification of color patterns in *Heliconius* butterflies." Declined.

GRADUATE STUDENTS (10 TOTAL)

Completed: Saad Arif (M.S. 2005), Kara Butterworth (M.S. 2003), Melinda Cerney (Ph.D. 2005), Jennifer Donnelly (M.S. 2003), Aspen Garry (M.S. 2003), Tibisay Escalona¹ (Ph.D. 2003)

Current: Chelsea Berns (Ph.D.), James Church (Ph.D.), Jennifer Deitloff (Ph.D.), Erin Myers (Ph.D.)

¹co-advised with Bette Loiselle through Dept. Biology, Univ. Missouri, St. Louis.

POSTDOCTORAL ADVISEES (1 TOTAL)

Current: Dr. Michael Collyer (2003-2007).

GRADUATE AND POSTGRADUATE ADVISORS

M.S. James F. Jackson University of Louisiana, Lafayette

Ph.D. F. James Rohlf State University of New York at Stony Brook