

Kevin S. Baldwin

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Areas of Specialization

Human Anatomy & Physiology, Comparative Anatomy & Physiology, Parasitology, Biomimicry, Conservation Biology, Ecology, Animal Behavior, Vertebrate Biology, Herpetology

Appointments Held

2014-2025	Professor, Monmouth College
1999-2013	Assistant and Associate Professor, Monmouth College
1999	Lecturer, University of Florida

Education

1999	PhD in Zoology, University of Florida
1986	BA in Biology, BA in History, University of California, Berkeley

Print Publications

2011	Communion and Dung Beetles. <i>The Evolutionary Review</i> 2:1 94-97
2010	1859: Darwin, Mill, and Drake. <i>The Evolutionary Review</i> 1:1 36-38
2009	Flea photograph used in: Fleas: Pest Note. Health Canada Pest Management Regulatory Agency. HC Pub: 8228. Ottawa. ISBN: 978-1-100-12530-5
2009	<i>Pulex irritans</i> photograph used in Elias, Scott A. <i>Advances in Quaternary Entomology</i> 12, Elsevier.
2007	Flea photo used in Eric R. Eaton and Kenn Kaufman. Kaufman Field Guide to Insects of North America (Turtleback) ISBN-10: 0618153101
1989	Laboratory Manual for Vertebrate Zoology at UC Santa Barbara
1987	K.S. Baldwin and R. Sanford <i>Ambystoma tigrinum californiense</i> (California tiger salamander) Predation. <i>Herpetological Review</i> 18(2): 33.

Selected Web Publications

2013	A Farewell to Worms . 21 January. 3 Quarks Daily.
2012	A Solstice Tale . 24 December. 3 Quarks Daily.

- 2012 [Footprints & Debt](#). 6 August. 3 Quarks Daily.
- 2012 [Rethinking Lawns](#). 14 May. 3 Quarks Daily.
- 2012 [Stargazing](#). 20 February. 3 Quarks Daily.
- 2012 [Roach Clips](#). 23 January. 3 Quarks Daily.
- 2011 [Cemeteries & Prairies](#). 31 October. 3 Quarks Daily.
- 2011 [Secular Humanism 2.0](#). 29 August. 3 Quarks Daily.
- 2011 [An Island Trilogy](#). 4 July. 3 Quarks Daily.
- 2011 [Perfect Forms: Typological vs. Population Thinking in Media & Industrial Agriculture](#). 11 April. 3 Quarks Daily.
- 2011 [My Botfly, Myself](#). 17 January. 3 Quarks Daily.
- 2010 [Chitlins, Citrus, & Solstice](#). 20 December. 3 Quarks Daily.
- 2010 [Floods And Plagues: New Lessons From The Old Testament](#). 22 November. 3 Quarks Daily.

Contributed Talks or Posters

- 2024 Hannah Candler, Mia Doty, Isaac Guadarrama, Kyheim Jones, & Kevin S. Baldwin. Investigating Behaviors and Biomechanics of Mega-Arthropods. Poster. Monmouth College, Summer HHMI Program.
- 2022 Practicing Biomimicry: Tools for Navigating Between Disciplines. Monmouth College Faculty Colloquium.
- 2014 Biomimicry: New possibilities for science, business, and the planet. Monmouth College Faculty Colloquium.
- 2012 John Whittaker, Kaitlyn Miller, & Alanna Trettin and Kevin S. Baldwin. Effects of Antimicrobials on Gregarine Parasites and Growth Rates of Juvenile Madagascar Hissing Cockroaches (*Gromphadorhina portentosa*). 4th Annual Interdisciplinary Biomedical Research Symposium, ATSU-KCOM Campus, Kirksville, MO. September.
- 2010 Flood and Plagues: New Ideas About the Old Testament, Monmouth College Faculty Colloquium, Fall.
- 2010 Parasitic organisms and parasitic ideas: More than meets the eye? Annual Midwestern Conference of Parasitologists (AMCOP), Western Illinois University, Macomb, IL, June.
- 2009 1859: Darwin, Drake, & Mill reconsidered. Darwinpalooza Lecture Series, Monmouth College, April.
- 2007 Physiological and Behavioral Effects of *Hymenolepis diminuta* infection on *Tenebrio molitor* beetles, Annual Midwestern Conference of Parasitologists (AMCOP), University of Wisconsin, Oshkosh, WI, June.
- 2002 Landscape Ecology, the Evolution of Virulence, & Emerging Diseases, Annual Midwestern Conference of Parasitologists (AMCOP), Millikin University, Decatur, IL June.
- 2001 Effects of mites on the physiology and performance of lizards. Departmental Seminar, Department of Biology, Western Illinois University.
- 2001 Effects of mites on the physiology and performance of lizards, Annual Midwestern Conference of Parasitologists (AMCOP), Eastern Illinois University, Charleston, IL June 2001.
- 2001 Landscape Ecology, the Evolution of Virulence, & Emerging Diseases Poster presented at 4th Annual Conference on New and Re-emerging Infectious Diseases, University of Illinois at Urbana-Champaign
- 2000 Effects of mites on the physiology and performance of lizards. Departmental Seminar,

Department of Biology, Northern Illinois University

- 1999 Effects of mites on the physiology and performance of the Florida scrub lizard (*Sceloporus woodi*) Florida Ecology and Evolution Symposium
- 1998 Pathology of mite infestations on sceloporine lizards. 21st Annual All Florida Herpetology Conference
- 1998 Effects of mites (*Geckobiella texana*) on the whole-organism performance of the Florida scrub lizard (*Sceloporus woodi*). 21st Annual All Florida Herpetology Conference
- 1996 Geographic variation in parasite load and its implications for performance and life history variation in sceloporine lizards. Annual Meeting of the Society for the Study of Amphibians and Reptiles
- 1994 Geographic variation in parasite load and its implications for life history variation in sceloporine lizards. Annual Meeting of the Society for the Study of Amphibians and Reptiles
- 1991 Environmental predictability, seasonality, and life history variation in sceloporine lizards. Annual Meeting of the Society for the Study of Amphibians and Reptiles
- 1989 Effects of spatial and temporal variation in environmental conditions on larval amphibians. Annual Meeting of the American Society of Ichthyologists and Herpetologists
- 1989 Fog and the distributional limits of the side-blotched lizard (*Uta stansburiana*) in central California. Annual Meeting of the American Society of Ichthyologists and Herpetologists
- 1988 Effects of pond quality on life history features of the western spadefoot toad Annual Meeting of the American Society of Zoologists

Grants, Honors & Awards

- 2004 National Computational Science Institute Mini-Grant for \$400 for the purchase of 2 copies of Mathematica and the development of epidemiological models and “A New Kind of Science” (NKS) demonstration models for Life on Earth.
- 2001 Pittsburgh Conference (PittCon) Grant of \$6581 for “Interdisciplinary Uses of Electrodes” co-written with Dr. George Nieman, Department of Chemistry, Monmouth College
- 1992 Charles Stearns Grant in Aid for Herpetological Research at the California Academy of Sciences, San Francisco, CA
- 1989 Instructional Improvement Grant, UC Santa Barbara
- 1989 Stoye Award for Best Student Poster at the Annual Meeting of the American Society of Ichthyologists and Herpetologists

Current Teaching

- 1999-2025 Lecture and/or labs for:
Biology & Environmental Science Courses: Human Anatomy & Physiology, Advanced Anatomy & Physiology, Parasitology, Biomimicry, Ecology, Animal Behavior, Conservation Biology, Investigating Biological Concepts Lab (intro majors biology I) Ecology, Evolution, & Diversity Lab (intro majors biology II), Life on Earth (non-majors biology), Comparative Vertebrate Morphology, Introduction to Environmental Science
General Education & Interdisciplinary Courses: Introduction to Liberal Arts (Freshman Seminar), Reflections: Food for Thought (Junior Seminar), Citizenship: Green Initiatives (Senior Seminar), Honors Program: Corn, The Mississippi River

Service to the College

- 2024-5 Admissions & Academic Status Committee
2022-4 Curriculum Committee
2018-19 Personnel Committee
2011-13 Participant in SofIA (Summer of Intellectual Activity) Summer Research Program at Monmouth College
2013-14 Co-coordinator (with Dan Ott) of the Reflections component of Integrated Studies
2012-25 Human Subjects Review Board
2011 Edited article for Monmouth Journal of Undergraduate Research (MJUR)
2009-12 Assessment Committee
1999-2025 Tribeta Faculty Advisor

Professional Development

- 2023 Developing Bean Beetles as a Model System for Undergraduate Laboratories Workshop, Emory University, Atlanta, May-June
2019 Biocene Tools Workshop, NASA Glenn Research Center, Cleveland, OH, September
2018 ACM Planning Meeting on Mississippi Studies hosted at Luther College, Decorah, IA, September
2011 Course development grant for Mississippi River Honors course at Monmouth College
2009 Summer Neuroscience Workshop, University of Missouri, Columbia, MO, August
2007 Wildbranch Nature Writing Workshop, Craftsbury Common, VT, June
2006 Workshop on Quantitative Literacy, Monmouth College, Monmouth, IL, March
2004 Field Research for 2.5 weeks in the Alvord Desert, Oregon, July
National Computational Science Institute First Look Workshop at Monmouth College, June 13-19
MITC Workshop to Go: From Idea to Completion, Extending Classroom Discussion with Electronic Tools, May
ACM Workshop for Integrating Information Literacy into Departmental Majors
2003 ACM Workshop entitled Prairies, Rivers, and Towns: Liberal Arts and the Pedagogy of Place, Ripon College, Ripon, WI, September 19-20

Teaching and Biology-Related Work Experience

- 2013-19 College for Kids at Monmouth College; Vertebrate and Invertebrate Anatomy
- 1999 Lecturer, University of Florida, Department of Biological Sciences: Introductory Biology for majors class
- 1998 Instructor, College of Medicine, Harrell Professional Development and Assessment Center, University of Florida, Gainesville: Teaching medical students basic clinical skills
- 1998 Co-coordinator/Instructor (with Dr. Doug Levey, Department of Zoology, University of Florida) of graduate seminar in Darwinian Medicine
- 1997 Instructor, Trilogy School, Gainesville, FL: Teaching Environmental Studies for high school class
- 1996-97 Instructor, University of Florida, Department of Biological Sciences Duties: Lecturing for Introductory Biology for non-majors class
- 1996 Tour leader, International Journeys: Acting as naturalist/guide for ecotours in the Peruvian Amazon
- 1994-96 Instructor, University of Florida, Department of Zoology: Teaching laboratory sections in Functional Vertebrate Anatomy, Animal Physiology, & Vertebrate Zoology
- 1992-94 Instructor, University of Florida, Department of Biological Sciences: Teaching laboratory sections in Introductory Biology for majors class
- 1991-92 Research Assistant, University of Florida, Department of Radiology: Studying applications of MRI technology to quantify water and lipids *in vivo*
- 1990-91 Instructor, University of Florida, Department of Biological Sciences: Teaching laboratory sections in Introductory Biology
- 1990 Biological Consultant for several companies in Southern California: Conducting field surveys of species abundance and diversity, writing environmental impact reports
- 1986-90 Instructor, University of California, Santa Barbara, Department of Biological Sciences: Teaching laboratory sections of Human Anatomy and Herpetology and discussion sections for Evolutionary Biology and Introductory Biology for non-majors

Service to the Profession

MANUSCRIPTS REVIEWED

- 2005 Seasonal patterns of Sarcophagid fly infections and male mortality in a North American lizard (*Anolis carolinensis*) population for *Ecology*.
- 2004 MHC, health, colour, and reproductive success in sand lizards for *Behavioral Ecology and Sociobiology*.