

CURRICULUM VITAE

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CURRENT POSITION:

Associate Professor of Biology, August 2019 – present

Dr. Roger Boyd Professor of Biology, August 2021 – present

PREVIOUS POSITIONS:

Assistant Professor of Biology, Baker University, August 2014 – July 2019

Assistant Professor of Biology, Morrisville State College, January 2010 – July 2014

MSC Norwich Campus Science Laboratory Coordinator, January 2010 – July 2014

EDUCATION:

PhD, Evolution, Ecology and Organismal Biology, June 2009

The Ohio State University, Columbus, OH

Dissertation Title: “Mating System Dynamics in Passerine Birds”

available online: http://etd.ohiolink.edu/view.cgi?acc_num=osu1242317441

Advisors: Dr. Thomas C. Grubb, Jr., Dr. J. Andrew Roberts

MS, Raptor Biology, May 2009

Boise State University, Boise, ID

Thesis Title: “Behavioral Interactions of Bald Eagles at Lake Cascade, Idaho”

available online: <http://scholarworks.boisestate.edu/td/40/>

Advisor: Dr. Marc J. Bechard

BA, Biology, May 1999

Baker University, Baldwin City, KS

Advisor: Dr. Roger L. Boyd

ASSISTANTSHIPS:

Graduate Teaching Associateship, Ohio State University, 2002-2009

Graduate Research Assistantship, Boise State University, 2001

Graduate Teaching Assistantship, Boise State University, 1999-2001, Spring 2002

TEACHING EXPERIENCE:

Baker University:

Human Ecology
Introduction to Ecological & Organismal Biology / Ecology & Evolution
General Zoology
Experimental Design Workshop
General Ecology
Plant Form & Function
Forest Ecology
Ornithology
Comparative Vertebrate Anatomy
Population & Community Ecology
Animal Behavior
Research in Biology
The Natural History of Beer
The Art & Science of the Seashore
Kansas Natural History
Ecuador: an agro-ecotourism experience
Seeing the Forest for the Trees: deep relationships between humanity and forests

Morrisville State College:

Human Biology
Human Anatomy and Physiology I & II
General Biology I & II
Topics in Contemporary Biology

Graduate Teaching Instructor:

Speciation in Birds, Fall 2008
Bird Coloration, Fall 2007
Introduction to Ecology Lab, Summer 2004

Graduate Teaching Associate:

at Ohio State:

Organismal Diversity Lab, Winter 2003 - Spring 2009
Introductory Anatomy, Summer 2007
Introduction to Ecology, Winter 2006 and Fall 2005
Tropical Field Ecology, in Costa Rica, Spring 2004 and Spring 2006
Ornithology, Spring 2005
Animal Form and Function, Spring 2004, Winter 2004, Winter 2009
Field Zoology, at OSU's Stone Laboratory, Gibraltar Island, Lake Erie, Summer 2003
Organismal Diversity Lecture, Fall 2003 and Spring 2003
Introductory Biology, Fall 2002

at Boise State:

Concepts of Biology, Spring 2000 and Fall 1999
Botany, Spring 2002
General Ecology, Fall 2001 and Fall 2000

PROFESSIONAL DEVELOPMENT:

Annual Meeting of Kansas Ornithological Society, Fall 2023

oral presentation “Nest-box populations of American Kestrels: model raptor systems for undergraduate teaching and research at small colleges”

Faculty Workshop, annually Fall 2014-2023

on-campus workshop provided for new and returning CAS faculty at the Baldwin City campus

Annual Meeting of the Kansas Academy of Sciences, Spring 2015-2019, 2023

Annual Meeting of Kansas Ornithological Society, Fall 2014, 2015, 2018, 2019, 2023

Annual Meeting of Kansas Ornithological Society, Fall 2019

oral presentation “Mate quality in male American Kestrels: early results from a nest box-breeding population in eastern KS” (co-author Baker University student Cordy Wesonig)

Annual Meeting of the Kansas Academy of Sciences, Spring 2017

presented the poster “Evidence of Precipitation and Temperature Patterns in Tree Rings of Urban and Rural Trees in Northeast Kansas” (co-author included Baker University student Hunter Young)

Annual Meeting of the Kansas Academy of Sciences, Spring 2017

presented the poster “Potential for Avian-mediated Long-distance Dispersal in Tardigrades” (co-authors included Baker University student Matt Mogle and Baker University faculty member Dr. Randy Miller)

Kansas Environmental Education Conference, Fall 2016

hosted by the Kansas Association for Conservation & Environmental Education (KACEE) at the newly built Discovery Center at the Baker University Wetlands. This annual conference allows for environmental educators throughout the state to develop professional networks and to share educational strategies to promote environmental and conservation education at all levels of primary, secondary, and post-secondary education. This network extends to educators in non-traditional educational environments, such as those who teach at nature centers and those whose primary roles lie within government agencies. I took advantage of this new relationship between Baker and KACEE to become better networked with fellow educators throughout the state and to sell the Baker brand, especially to secondary science educators who may encourage their students to consider studying ecology and environmental sciences at Baker University.

Professional Development Seminar, Spring 2013

on-campus professional development seminar sessions on teaching effectiveness, successful scholarship, and online resources for classroom instruction

Professional Development Seminar, Winter 2013

on-campus professional development seminar sessions on the presentation technology *Prezi*, and balancing teaching, service, and scholarship

Professional Development Seminar, Spring 2012

on-campus professional development seminar including sessions on faculty annual reports and integrating technologies such as *WordPress*, e-texts and iPads in the classroom

Preparing Future Faculty, Fall 2008 through Spring 2009
program developed by the OSU Graduate School to prepare PhD students for careers at small colleges through mentorship and skills training

Effective Grading seminar, Winter 2006

SERVICE:

Baker University Ivan L. Boyd Arboretum Committee: Fall 2014 – current (chair, Fall 2018 – current)

Baker University Institutional Review Board: Fall 2022 – current (chair, Fall 2023 – current)

Baker University Institutional Animal Care and Use Committee, chair: Fall 2023 – current

Baker University CAS Faculty Grievance committee: Fall 2023 – current

Baker University CAS Faculty Senate, vice-chair: Fall 2022 – Spring 2023

Baker University, development committee for an Institutional Animal Care and Use Committee, Summer 2022 – current

Baker University Institutional Review Board, Fall 2022 – current

Baker University CAS General Education Review committee: Fall 2019 – Spring 2020

Baker University Academic Scholarship Competition Day Faculty interviewer: Spring 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2019, Spring 2019, Fall 2020, Fall 2021

Baker University Harter Scholarship Competition Day Faculty interviewer: Spring 2015, Spring 2016, Fall 2016, Fall 2017

Baker University University Academic Council: Fall 2017 – Spring 2020

Baker University CAS Educational Programs and Curriculum committee: Fall 2016 – Spring 2019

Baker University CAS Faculty Senate Senate Executive Committee, member-at-large: Fall 2016 – Spring 2017

Baker University Presidential Task Force on Enrollment: Fall 2015 – Spring 2018

Baker University Council on Undergraduate Teacher Education: Fall 2015 – present

Baker Wetlands Advisory Board: Fall 2014 – Spring 2018

Baker University CAS Faculty Senate Ad-hoc Committee to Review Interterm, Chair: Spring 2016 – Spring 2017

Baker University CAS Faculty Senate Ad-hoc Committee to Review Interterm: Spring 2015 – Spring 2016

Baker University CAS Faculty Senator, Interim Representative – Department of Biology and Chemistry: Fall 2014

Morrisville State College Service:

MSC Institutional Review Board, member 2010 – 2014

MSC, Norwich Liaison Committee, chair 2011 – 2014

MSC, Strategic Planning and Budgeting Committee, 2013 – 2014

MSC Strategic Planning Steering Committee, member 2012 – 2013

MSC Faculty Search Committee, Dep. of Biology and Chemistry, 2012
MSC Faculty Search Committee, Dep. of Biology and Chemistry, 2011
MSC Staff Search Committee, Norwich Campus academic advisor, 2012
MSC, Norwich Campus Natural History Club, founded and advise, 2011 – 2014

HONORS/AWARDS:

endowed professorship, Dr. Roger Boyd Professor of Biology, awarded August 2021

Phi Beta Delta international scholarship honor society, faculty member, Fall 2018 - current

Morrisville State College Norwich Campus Faculty of the Year, 2011-2012 nominee

RESEARCH EXPERIENCE:

Spring 2017 to current – role of birds in the long-distance dispersal of tardigrades.

Spring 2015 to current – use of color and plumage signals in woodpeckers, songbirds, and raptors to advertise health condition and mate quality

Spring, 2005 to Spring, 2009 – mating system dynamics of Eastern Bluebirds and Tree Swallows; dissertation research under the direction of Thomas C. Grubb, Jr. and J. Andrew Roberts on the causes and consequences of divorce and mate choice in nonmigratory (eastern bluebird) and migratory (tree swallow) passerine species

Spring, 2003 – Eastern Screech Owl demography following West Nile Virus; captured nesting eastern screech owls in Crawford County, OH, under the direction of Thomas C. Grubb, Jr. to document the change in population demographics following the invasion of West Nile Virus

Summer, 2000 and 2001 – Bald Eagle nesting ecology; thesis research under the direction of Marc Bechard on Bald Eagle home range and foraging habitat use and territorial aggression in the west-central mountains of ID

Summer, 1999 – intern, Missouri Ozark Forest Ecosystem Project; worked under the direction of Dr. John Faaborg to conduct spot-mapping and nest searches of neotropical migrant songbirds; also conducted independent research on Acadian Flycatcher nest site placement

Winter, 1999 – wintering Red-tailed Hawk habitat use; conducted roadside surveys to determine habitat use of wintering and resident Red-tailed Hawks in northeastern KS

Summer, 1998 – field assistant to Dr. Roger L. Boyd, Baker University; conducted breeding bird censuses and assisted in breeding bird surveys; monitored and trapped/banded nesting Least Terns and Piping Plovers

Spring, 1998 – wintering Long-eared Owl diet analysis; analyzed contents of Long-eared Owl pellets collected from a winter roost in SW Nebraska

Winter, 1998 – Bald Eagle wintering ecology; participated in aerial and ground surveys of Bald Eagle wintering use areas in southern NE; collected Bald Eagle pellets from below night roosts

RESEARCH GRANTS/FUNDING ACQUIRED:

- \$273,565 National Science Foundation Infrastructure Innovation for Biological Research, Research in Undergraduate Institutions Grant, “Cross Departmental Development of an Automated Species Identification System for the Phylum Tardigrada found on Birds, 2020
- \$1,000 The Dawes Arboretum, 2008
- \$1,000 Sigma Xi Grants-In-Aid of Research, 2004
- \$500 Lauritz Muehlbach Memorial Fund Competitive Research Grants in Vertebrate Ecology – OSU Dept. EEOB, 2004
- \$4,650 U.S. Bureau of Land Management, 2000
- \$3,860 Idaho Department of Fish and Game, 2000
- \$3,920 Idaho Department of Fish and Game, 2001
- \$24,885 U.S. Bureau of Reclamation, 2001

PUBLICATIONS:

- Staley PA, Mccowen PJ, Kimball SA, Miller WR. 2018. Tardigrades of North America: Aquatic Tardigrades of Western Missouri, U.S.A. Transactions of the Kansas Academy of Science, 121: 391-399.
- Mccowen PJ, Kimball SA, Miller WR. 2018. Tardigrades of North America: *Dactylobiotus kansae* Beasley, Miller & Shively, 2009 confirmed to still exist after 50 years. Transactions of the Kansas Academy of Science, 121: 423-426.
- Mogle MJ, Kimball SA, Miller WR, McKown RD. 2018. Evidence of avian-mediated long-distance dispersal in American tardigrades. PeerJ 6:e5035. DOI 10.7717/peerj.5035
- Young HR, Kimball SA. 2018. Evidence of precipitation and temperature patterns in tree rings of urban and rural trees in northeast Kansas [Abstract]. Transactions of the Kansas Academy of Science 121: 232.
- Mogle MJ, Miller WR, Kimball SA. 2017. Tardigrades in the canopy: Potential for avian-mediated long-distance dispersal in American tardigrades [Abstract]. Transactions of the Kansas Academy of Science 120: 111.

TECHNICAL PAPERS:

- Kimball SA, Bechard MJ. 2000. Cabarton Bald Eagle Territory, North Fork Payette River, Cabarton, Valley County, Idaho: Final Report. U.S. Bureau of Land Management. Boise, ID.
- Kimball SA, Bechard MJ. 2002. Lake Cascade Bald Eagles: Nest productivity, home range size, and foraging habitat use, Valley County, Idaho. Final Report. U.S. Bureau of Reclamation, Central Snake Projects Office. Boise, ID.

PRESENTATIONS:

- Kimball SA. 2023. Nest-box populations of American Kestrels: model raptor systems for undergraduate teaching and research at small colleges. *presented at 75th Annual Meeting of the Kansas Ornithological Society, Hays, KS. Oct 7, 2023.*
- Wesonig CL, Kimball SA. 2019. Mate quality in male American Kestrels: early results from a nest box-breeding population in eastern KS. *presented at 71st Annual Meeting*

- of the Kansas Ornithological Society, Wichita, KS. Oct 5, 2019.
- Young HR, Kimball SA. 2018. Evidence of precipitation and temperature patterns in tree rings of urban and rural trees in northeast Kansas. poster Kansas Academy of Science Annual Meeting, Topeka, KS.
- Mogle MJ, Miller WR, Kimball SA. 2017. Potential for Avian-mediated Long-distance Dispersal in Tardigrades. poster Kansas Academy of Science Annual Meeting, Hays, KS.
- Kimball SA. 2008. Effect of Reproductive Success on Mate and Site Fidelity in Tree Swallows and Eastern Bluebirds. oral Joint Meeting of the American Ornithologists' Union, the Cooper Ornithological Society and the Society of Canadian Ornithologists, Portland, OR.
- Kimball SA, Kuenzli JJ, Grubb TC, Jr., Neubig JP, Restifo RA. 2003. Demographics of Eastern Screech Owls (*Megascops asio*) in relation to West Nile virus in north-central Ohio. poster Midwest Fish and Wildlife Conference, Kansas City, MO.
- Kimball SA, Bechard MJ, Kaltenecker GS. 2002. Use of artificial nest structures to mitigate Bald Eagle nest destruction. poster North American Ornithological Conference, New Orleans, LA.
- Kimball SA, Bechard MJ. 2001. Territorial aggression and productivity of Bald Eagles (*Haliaeetus leucocephalus*) at Lake Cascade, Idaho. oral Raptor Research Foundation Annual Meeting. Winnipeg, Manitoba.
- Kimball SA, Bechard MJ. 2000. Effects of an increase in Bald Eagles (*Haliaeetus leucocephalus*) on home range and foraging habitat at Lake Cascade, Idaho. oral Raptor Research Foundation Annual Meeting. Jonesboro, AR.
- Kimball SA, Gallegos N. 1999. Habitat use by wintering Red-tailed Hawks (*Buteo jamaicensis*) in northeastern Kansas. oral Kansas Academy of Sciences Annual Meeting. Manhattan, KS.
- Kimball SA, Mitchell K, Robinson D. 1998. Wintering Long-eared Owl (*Asio otus*) diet composition in southwestern Nebraska. oral Kansas Ornithological Society Annual Meeting. Lawrence, KS.

PROFESSIONAL ORGANIZATIONS:

- American Ornithologist's Union, 2001 – present
- Raptor Research Foundation, 2004 – present
- Animal Behavior Society, 2004 – present
- Kansas Ornithological Society, 2014 – present
- Kansas Academy of Science, 2015 – present

SELECTED COURSES AND SEMINARS TAKEN:

- Akaike's Information Criterion In Animal Behavior, Spring 2004
- Foundational Papers in Ecology and Evolution, Fall 2003
- Population Limitations in Birds, Spring 2003
- Successional Dynamics of Forests, Winter 2003

Principles in Biogeography, Winter 2003
Evolutionary Ecology of Birds, Winter 2003
Plant Population Ecology, Fall 2002
Macroecology, Spring 2001
Applied Conservation, Fall 2000
Avian Migration, Fall 2000
Raptor Biology, Fall 2000
Restoration Ecology, Spring 2000
Prairie and Wetland Ecology, Fall 1998
Dendrology, Fall 1998
Entomology, Fall 1997

OTHER ACTIVITIES:

My interest in biology and ecology has been fueled, in part, by my experiences in the natural world. To engage more directly with the natural world and to facilitate my research, I have participated for several years in a number of activities which have garnered me access to and appreciation for the diverse environments in which I've worked and lived. These include: nature photography, hiking, canoeing, camping, fishing, and white-water rafting. I am also a trained technical tree and cliff climber, which is useful in accessing the nest, roost, and den sights of a number the organisms I've studied. I am also comfortable using GPS and GIS software.