

# CURRICULUM VITAE

## John Lad Koprowski

### Address:

Wildlife Conservation and Management  
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### Personal Data:

Born: 29 September 1961, Lakewood, OH      Citizenship: United States of America  
Married: 21 September 1985 to Nancy M. Cervenak; 2 children.

## Chronology of Education

Ph.D. *Biology* (Honors), University of Kansas, May 1991, Postdoctoral Studies 1991-1992  
*Dissertation Title:*      The evolution of sociality in tree squirrels: the comparative behavioral ecology of fox squirrels and eastern gray squirrels.

*Advisor:*      Dr. Kenneth B. Armitage

M.A. *Zoology* (Wildlife Ecology), Southern Illinois University, August 1985  
*Thesis Title:*      Fox squirrel population trends and regulation in a southern Illinois woodlot, 1968-1984.

*Advisor:*      Dr. Willard D. Klimstra

B.S. *Zoology* (Wildlife Biology), Ohio State University, June 1983  
*Research Title:*      Nocturnal activity of woodchucks (*Marmota monax*) in an urban park.

*Advisors:*      Drs. John D. Harder and Tony J. Peterle

## Chronology of Employment

*Professor, School of Natural Resources, University of Arizona (2006 to present)*

*Associate Professor, School of Natural Resources, University of Arizona*

*August 2000-June 2006 (Tenure granted in 2003)*

*Director, Mt. Graham Biological Programs/Red Squirrel Monitoring Program*

*Faculty Affiliate, Institute of the Environment, University of Arizona*

*Member, Genetics Graduate Interdisciplinary Degree Program*

*Member, Masters in Development Practice Program*

Establish and maintain comprehensive teaching (40%) and research (60%) programs in the ecology and conservation of mammals. Supervise graduate students, serve on graduate student committees, advise undergraduates. Direct University of Arizona's Mt. Graham Red Squirrel Monitoring Program. Taught courses in Wildlife Behavior, Natural Resource Ecology, Mammal Management, Small Mammal Conservation & Management, Applications of Behavioral Ecology to Conservation Biology, Biogeography and Conservation of the Sky Islands, Cultivating Diversity in the Natural Resources. Tenured on first application.

*Lecturer, Darwin Programme, Zoological Society of London, Mongolia  
August 2006*

Co-taught a 3 week field course in Desert Ecology and Census Techniques to Mongolian students in the Greater Gobi Desert Strictly Protected Area B.

*Associate Professor, Department of Biology, Willamette University  
August 1998 to August 2000*

*Assistant Professor, Department of Biology, Willamette University  
August 1992 to August 1998 (Tenure granted 1998)*

Establish and maintain teaching and undergraduate research program in animal ecology. Tenured on first year of eligibility. Teach 2 lectures and 2 laboratories each semester; in addition, team teach senior seminar class. Advise 20 to 30 undergraduate students per year and serve as undergraduate research thesis advisor for 5 to 10 senior biology majors each year. Taught courses in Introductory Biology, Biological Diversity, General Ecology, Evolutionary Biology, Behavioral Ecology, Vertebrate Zoology, Field Zoology, Comparative Vertebrate Anatomy, Marine Mammals, Conservation Biology, Mammalogy.

*Lecturer, Division of Biological Sciences, University of Missouri-Kansas City  
August 1991 to May 1992*

Taught courses in Vertebrate Zoology, Urban Wildlife, Evolutionary Biology and Mammals of Kansas City

*Graduate Teaching Assistant, Department of Systematics & Ecology, University  
of Kansas  
January 1986 to May 1991*

Taught laboratory and/or discussion sections of Honors Introductory Biology (5), Introductory Biology (1), Honors Comparative Physiology (1), Animal Behavior (1), and Experimental Approaches to Ecology (4).

*Adjunct Biology Faculty, Department of Biology, Kansas City Kansas  
Community College  
August 1988 to December 1989*

Taught night courses (lecture and laboratory sections) in Introductory Biology.

## **Administrative and Leadership Roles**

*Director, University of Arizona's Mt. Graham Biological Programs*

Office of the Vice-President for Research (2000-present).

RSMP Web-Site: <http://www.ag.arizona.edu/research/redsquirrel/>  
see Monitoring Program for some details

This program was mandated by Congress in the 1988 The Arizona-Idaho Conservation Act in response to the University of Arizona's construction of a major international astrophysical site (Mt. Graham International Observatory) and is now in its 21<sup>st</sup> year. The program is funded by the

University of Arizona's Office of the Vice-President for Research and reports to the US Forest Service on a quarterly basis. The state-allocated annual budget is approximately \$350,000 with 4-5 full time employees in addition to 2-3 undergraduate student workers and 4-5 graduate student employees funded through nearly \$150,000 year in additional soft monies. The Red Squirrel Monitoring Program is charged with the complete monitoring, publication of results, and quarterly reporting for the endangered Mt. Graham red squirrel. This requires significant work with State and Federal Agencies (US Forest Service, US Fish & Wildlife Service, Arizona Game and Fish Department, National Park Service), University Programs (Steward Observatory, Office of the Vice-President for Research, School of Natural Resources and the Environment), and the general public. As Director of this program, I oversee these operations, serve as the primary budget authority, maintain hiring and training authority, provide research direction, publish results, and collaborate with the appropriate agencies to assure that the program is in compliance with the Arizona-Idaho Conservation Act as well as the primary federal and state agencies (USFS, USFWS, AZGFD).

*Director, Desert Southwest Cooperative Ecosystems Studies Unit (2002-2003).*

The DSCESU that I directed executed and provided collaborative research, education and technical assistance addressing desert ecosystem resource issues at local, regional, national and international levels through over 100 federally funded projects administered by the Unit with a staff of three. The DSCESU partnership establishes interdisciplinary programs that involve natural resources, cultural resources and social sciences information with emphasis on involving communities and underrepresented groups throughout California, Nevada, Arizona, New Mexico, Texas, and northwestern Mexico. Federal land management agencies contribute research scientists and/or other professionals located and working at CESUs under formal agreements between their respective bureaus and universities. Federal personnel are supervised and supported by their respective agencies, through existing administrative systems. Participating agencies provide scientific staff, administrative support funds (for assistance beyond the basic support provided by the universities), and project funds for specific research projects and technical assistance. At present, the DSCESU has as full participants: US Forest Service, US Geological Survey, NRCS, National Park Service, Bureau of Land Management, Bureau of Reclamation, Department of Defense, Sonoran Institute, The Nature Conservancy, Arizona-Sonora Desert Museum, Howard University, University of California-Riverside, New Mexico State University, Texas State University, Universidad de Sonora, and the University of Texas-El Paso. The DSCESU is one of 16 such federally funded CESU's nationwide. As Director, I was the primary contact with the federal, university, and non-government organization partners, supervise staff, provide future vision for the Unit, recruit new member agencies, and assure compliance of the Unit with the National Office.

*Additional Academic Roles with Leadership Component:*

University of Arizona Academic Leadership Institute. 2012-2013 class.  
 School of Natural Resources and the Environment Faculty Status Committee  
 (2003 to 2006, 2008 to present; Chair in 2005-06, 2010-11). Elected by peers.  
 College of Agriculture and Life Sciences, Promotion and Tenure Committee, 2010 to present.  
 Associate Chair (2011-2012), Chair (2012-2013)  
 School of Natural Resources and the Environment Policy Committee (2004 to 2006). Elected by peers.  
 Director's *Ad hoc* Committee on Diversity (2004-05)  
 The Willamette University Faculty Council (1999-2000). Elected by peers.  
 Junior Science Faculty Mentorship Colloquium (1998-2000)  
 NSF Project Kaleidoscope Faculty 21 Leadership Program (1996 to present)  
 Willamette University Undergraduate Research Committee (Chair 1995-96)

## Honors and Awards

### National/International

- 2013 **IUCN North American Coordinator-Small Mammals**
- 2012 **Distinguished Overseas Scholar, Thousand Talents Program,**  
Nominee of The Northwest Agriculture & Forestry University,  
People's Republic of China.
- 2011 **Research Fellow, Forestry and Forest Products Research Institute,  
Japan**
- 2010 **IUCN North American Coordinator-Small Mammals**  
  
**Outstanding Edited Publication Nominee**  
The Wildlife Society  
for book titled "*Last Refuge of the Mt. Graham Red Squirrel*"
- 2002 **Outstanding Publication Nominee**  
The Wildlife Society  
for book titled "*North American Tree Squirrels*"
- 1999 **Emil W. Haury Award for Outstanding Achievement in  
Science in the National Parks**  
Western National Parks Association
- 1985 **Phi Kappa Phi** (declined)

### University

- 2013 **Outstanding Faculty Member**  
School of Natural Resources & the Environment
- 2012 **Academic Leadership Institute Fellow**  
University of Arizona
- 2011 **Outstanding Mentor of Graduate and Professional Students**  
University of Arizona Graduate & Professional Student Council  
**Outstanding Faculty Advisor Finalist**  
University of Arizona  
**A+ Advisor Award Finalist**  
College of Agriculture and Life Sciences
- 2010 **A+ Advisor Award Finalist**  
College of Agriculture and Life Sciences

2008	<b>Outstanding Mentor Finalist &amp; Honorable Mention</b> Undergraduate Biology Research Program
2007	<b>Outstanding Scholarly Publication</b> School of Natural Resources, University of Arizona
2006	<b>O'Brien Diversity Award</b> College of Agriculture and Life Sciences
	<b>Promotion to Professor</b> University of Arizona
2005	<b>Outstanding Faculty Member</b> School of Natural Resources
2004	<b>Outstanding Team Award</b> College of Agriculture and Life Sciences
2003	<b>Outstanding Faculty Member</b> School of Renewable Natural Resources
	<b>Tenure granted</b> University of Arizona
2002	<b>Outstanding Scholarly Publication</b> School of Renewable Natural Resources, Univ Arizona for book titled " <i>North American Tree Squirrels</i> "
1994, 1996, 1999, 2000	<b>Faculty Achievement Award for Scholarship and Teaching</b> Willamette University (University-wide competitive Awards to <5% of 120 person faculty annually)
2000	<b>Faculty Study Time Award</b> (University-wide competitive for course release). Willamette University
1998	<b>Tenure granted</b> Willamette University
1997	<b>Promotion to Associate Professor</b> Willamette University
1996	<b>Junior Sabbatical</b> (University-wide competitive award) Willamette University
1991	<b>Dorothy Haglund Outstanding Dissertation Award,</b> The Graduate School, University of Kansas Awarded for the most outstanding dissertation produced during the academic year in any field at the University of Kansas
1990	<b>Graduate Teaching Assistant of the Year</b> (University-wide competitive award) University of Kansas

## Service

### Outreach-Local/State/International

2006-present	Member, Vertebrate Species Team, Sonoran Desert Conservation Plan
2006-present	Member, Thick-billed Parrot Reintroduction Team, Arizona Game & Fish Dept.
2006	Lecturer, Darwin Programme, Zoological Society of London, Ulaanbataar, Mongolia
2001-present	Presentations at Quail Run Elementary School, Tortolita Middle School, Tucson
2001-present	Member, Mt. Graham Red Squirrel Recovery Team. US Fish & Wildlife Service

- 2001-present Member, Black-Tailed Prairie Dog Working Group, Arizona Game & Fish Dept.
- 1999-2000 Presentations, 1<sup>st</sup> & 2<sup>nd</sup> grade classes, Lyle Elementary, Dallas, OR
- 1996-2000 Endangered Species Project Panelist, Waldo Middle School, Salem, OR

### **Intramural Citizenship**

#### *School of Natural Resources & the Environment Committees:*

Curriculum Committee, 2013 – present

Faculty Status Committee, 2003 – 2006, 2008 - 2012; Chair 2005-06, 2010-11,  
elected by peers

Policy Committee At-large member, 2004-05, elected by peers

RNR Graduate Admissions Committee, 2002 to present

*Ad hoc* Diversity Committee, 2005-06

Seminar Series Coordinator. 2001- 02, 2005-06

School of Natural Resources Awards Committee, 2001-03, 2007-present; Chair 2007-2008, 2009-10

#### Search Committees:

SNRE, Asst Leader, Cooperative Fish & Wildlife Research Unit, 2013

SNRE, Large Mammal Landscape Ecologist, 2011-2012 (chair)

SNRE, Phenoclimatologist, 2009-2011

SNR, Director Search, 2005-06

SNR, Water Resources, 2005

SNR, Forest Health Specialist, 2001-02

#### *University Committees:*

College of Agriculture and Life Sciences, Promotion and Tenure Committee, 2010-present.  
Associate Chair, 2011-2012; Chair, 2012-2013

Mt. Graham International Observatory Advisory Group, Steward Observatory  
University of Arizona, Fall 2000-present

Advisory Board, Institute of the Environment, 2013-present

Faculty Mentor for AZ Assurance Scholars (1<sup>st</sup> generation college students), 2008-present

Reviewer, Agricultural Experiment Station, 2002 - present

Reviewer, Conservation Biology Internship Program, 2003-04

Director, Desert Southwest Cooperative Ecosystems Studies Unit, 2002-03

Mentor, Conservation Biology Internship Program, 2002-05

Mentor, Undergraduate Biology Research Program, 14 students, Spring 2001-present

The Willamette University Faculty Council (1999-2000). Elected by peers.

Undergraduate Research Committee (1994-1996, 1998-1999; Chair 1995-96)

International Education Committee (1997-1998)

Representative to the Malheur Field Station Board (1992-2000)

### Extramural Citizenship

**Associate Editor** for Journal of Mammalogy (2007-10), Mammal Study (Japan) (2010-present), Journal of Species Research (South Korea) (2012-present)

**Reviewer** for *Acta Oecologia* (1), *Acta Theriologica* (4), *Acta Sinica Theriologica* (1), *African Journal of Ecology* (1), *American Midland Naturalist* (6), *Animals* (3), *Animal Behaviour* (11), *Behavioral Ecology and Sociobiology* (6), *Behavioral Ecology* (4), *Behaviour* (2), *Biodiversity and Conservation* (2), *Biological Conservation* (5), *Biological Invasions* (2), *Canadian Field-Naturalist* (2), *Current Science* (5), *Current Zoology* (1), *Diversity and Distributions* (1), *Ecological Modelling* (1), *Ecology* (4), *Ecological Research* (1), *Environmental Conservation* (1), *Ethology* (4), *European Journal of Wildlife Research* (1), *Forest Ecology and Management* (5), *Forestry* (3), *Journal of Applied Ecology* (1), *Journal of Chemical Ecology* (1), *Journal of College Science Teaching* (1), *Journal of the King Saud University* (2), *Journal of Mammalogy* (32), *Journal of the Pennsylvania Academy of Sciences* (2), *Journal of Species Research* (2), *Journal of Wildlife Management* (7), *Journal of Zoology* (1), *Landscape Ecology* (2), *Landscape and Urban Planning* (2), *Mammalia* (6), *Mammalian Biology* (4), *Mammalian Species* (2), *Mammal Study* (6), *Molecular Ecology Resources* (2), *Mongolian Journal of Biological Sciences* (2), *National Science Foundation* (8), *Naturwissenschaften* (1), *NSERC* (4), *Northeastern Naturalist* (1), *Oecologia* (1), *PLOS One* (1), *Prairie Naturalist* (2), *Revue d'écologie: la terre et la vie* (1), *Science* (2), *The Southwestern Naturalist* (8), *Tropical Zoology* (1), *Western North American Naturalist* (5), *Wildlife Biology* (1), *Wildlife Monographs* (1), *Wildlife Society Bulletin* (1), *Zoo Biology* (1), *Zoological Science* (2).

**Reviewer** for 7 scholarly books:

Gurnell and Wauters, 1999, *Natural History of Squirrels*, Academic Press

Linzey, 2000, *Vertebrate Zoology*, WC Brown/McGraw-Hill

Odum, 2002, *Fundamentals of Ecology*, Wadsworth Publishing

Sinclair, Fryxell, and Caughley, 2004, *Wildlife Ecology*, Blackwell

Allred, 2007, *Natural History of Tassel-eared Squirrels*, Univ of New Mexico Press

Ricklefs, 2007 and 2011, *Economy of Nature*, Freeman

Manno, 2013, *The Utah Prairie Dog: Legend of the Red Rocks*, University of Utah Press

**Session Chair**, American Society of Mammalogists, 2002, 2004, 2006, 2008  
Arizona Chapter of The Wildlife Society, 2011

**Student Presentation Evaluator**, American Society of Mammalogists(1999, 2001-present)  
AZ-NM Chapter of The Wildlife Society (2002-present)

**Breakfast with a Scientist Host**, Amer. Soc.Mammalogists (1997, 2002, 2004, 2005, 2008)

**Professional Society Committee Membership:**

Climate Change Working Group, The Wildlife Society, 2012-present

Grants-in-Aid Committee, American Society of Mammalogists, 2002 to present

Conservation Awards Committee, American Society of Mammalogists, 2003 to 2008

Education Committee, American Society of Mammalogists, 2002 to 2004

**Professional Society Offices and Appointments Held**

Associate Editor, *Journal of Species Research*, 2012-present

Associate Editor, *Mammal Study*, 2010-present

Associate Editor, *Journal of Mammalogy*, 2007-10

President, Arizona Chapter of The Wildlife Society, 2004-05

President Elect, Arizona Chapter of The Wildlife Society, 2003-2004

Executive Board Member, Arizona Chapter of The Wildlife Society, 2005-07

**Convener and Host**

2<sup>nd</sup> International Colloquium on the Ecology of Tree Squirrels, Sublimity, OR (2000)

Joint Annual Meeting of the Arizona/New Mexico Chapter of AFS and the

Arizona & New Mexico Chapters of The Wildlife Society, Flagstaff AZ (2006)

**Steering Committees**

3<sup>rd</sup> International Colloquium on the Ecology of Tree Squirrels, Newcastle, England  
(2001 to 2003)

4<sup>th</sup> International Colloquium on the Ecology of Tree Squirrels, Kerala, India  
(2003 to 2006)

5<sup>th</sup> International Colloquium on the Ecology of Tree Squirrels, Kamloops, BC  
(2006 to 2009)

6<sup>th</sup> International Colloquium on the Ecology of Arboreal Squirrels, Kyoto, Japan  
(2009 to 2012)

7<sup>th</sup> International Colloquium on the Ecology of Arboreal Squirrels, Helsinki, Finland  
(2012 to 2015)

**Co-organizer and Host,**

Workshop on the Ecology of Red Squirrels, Safford, AZ (2001 until May 2003)

2006 Joint Annual Meeting of the Arizona/New Mexico Chapter of AFS and the  
Arizona and New Mexico Chapters of The Wildlife Society, Flagstaff AZ

**Professional Society Memberships:**

American Association for the Advancement of Science

Sigma Xi, The Scientific Research Society

Southwestern Association of Naturalists

American Society of Mammalogists

Council on Undergraduate Research

International Society for Behavioral Ecology

Society for Conservation Biology

The Wildlife Society

Animal Behavior Society

**Panel Member:**



Mt. Graham Red Squirrel Recovery Team, US Fish & Wildlife Service (2001 – present)

Technical Advisor, Western Gray Squirrel Recovery Team, State of Washington  
(2003 – present)

Grazing Impacts on Mammals of the SW, Region 3-US Forest Service (2001)

Sensitive Species Review Team, US Forest Service, Region V (2002 to present)

## **Publications/Creative Activity:**

### **Books:**

Steele, MA, Koprowski, JL. 2001. *North American Tree Squirrels*. Smithsonian Institution Press.  
224 pp.

Sanderson, HR, Koprowski, JL. (eds). 2009. *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.

Thorington, RW, Koprowski, JL, Steele, MA, Whatton, J. 2012. *Squirrels of the World*, Johns Hopkins University Press.

Koprowski, JL, Van Pelt, W. *Field Guide to the Mammals of Arizona*. In preparation with interest from University of Arizona Press.

### **Book Chapters:**

Koprowski, J.L., W.S. Fairbanks. In press. Wildlife behavior. In: Krausman, P.R. (ed.) *Wildlife Management: Contemporary Principles and Practices*, Johns Hopkins University Press.

Buecher, D.C., R. Sidner, J.L. Koprowski. 2010. Finding that 4-star diner or how bats might 'anticipate' productive foraging areas. Pp. 253-262 in: Halvorson, W., Schwalbe, C., Van Riper, C., III (eds.). *Southwestern Desert Resources*, University of Arizona Press.

Koprowski, J.L., T. Snow. 2009. A comparison of the census methods used to monitor Mt. Graham red squirrels. Pp. 137-141 in: Sanderson, HR, Koprowski, JL. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.

Koprowski, J.L., R.J.Steidl. 2009. The dilemma of the small population: potential consequences of the isolation of Mt. Graham red squirrels. Pp. 142-152 in: Sanderson, HR, Koprowski, JL. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.

Alanen, M I, J.L. Koprowski, Grinder M I, Greer, V L., Coates, C A, Hutton, K A. 2009. Habitat characteristics of the territories of Mt. Graham red squirrels: do sex differences exist? Pp. 197-208 in: Sanderson, HR, Koprowski, JL. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.

Bertelsen, S.R., J.L. Koprowski. 2009. Site characteristics of traditional and newly established middens of the Mount Graham red squirrel. Pp. 185-196 in: Sanderson, H.R., Koprowski, J.L. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.

Edelman, AE, JL Koprowski. 2009. Introduced Abert's squirrels on Mt. Graham: Could they be

- contributing to the decline of the red squirrel. Pp. 185-196 in: Sanderson, HR, Koprowski, JL. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.
- Greer, VL, JL Koprowski. 2009. Time budget of the Mt. Graham red squirrel. Pp. 211-229 in: Sanderson, HR, Koprowski, JL. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.
- King, SRB, JL Koprowski. 2009. Effect of human and non-human disturbance on Mt. Graham Red Squirrels. Pp. 301-317 in: Sanderson, HR, Koprowski, JL. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.
- Munroe, K.E, J.L. Koprowski, V.L. Greer. 2009. The social and mating systems of red squirrels: do Mt. Graham red squirrels fit the pattern? Pp. 287-300 in: Sanderson, H.R, Koprowski, J.L. (eds). *The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment*, University of Arizona Press.
- Palmer, G. H., J. L. Koprowski, and T. Pernas. 2008. Tree squirrels as invasive species: conservation and management implications. Pp 273 - 282 in G. L. Witmer, W. C. Pitt, K.A. Fagerstone (eds.), *Managing vertebrate invasive species: proceedings of an international symposium*. USDA/APHIS Wildlife Services, National Wildlife Research Center, Fort Collins, Colorado.
- Koprowski, J.L. 2007. Reproductive strategies and alternative reproductive tactics of tree squirrels. In: Wolff, J. Sherman, P (eds). *Rodent Societies: an ecological and evolutionary perspective*. Chapter 7: pages 86-95. University of Chicago Press.
- Koprowski, J.L. 1998. Conflict between the sexes: a review of social and mating systems of the tree squirrels. Pp. 33-41 in M.A. Steele, J.F. Merritt, D.A. Zegers (eds.), *Ecology and Evolutionary Biology of Tree Squirrels*, Special Publication 6, Virginia Museum of Natural History. 310 pp.
- Koprowski, J.L. and M.A. Steele. 1998. Future directions: Research on the ecology of tree squirrels. Pp. 309-310 in M.A. Steele, J.F. Merritt, D.A. Zegers (eds.), *Ecology and Evolutionary Biology of Tree Squirrels*, Special Publication 6, Virginia Museum of Natural History. 310 pp.
- Peer-reviewed Journal Articles:**
- Cudworth, N.L., J.L. Koprowski. 2013. Foraging and reproductive behavior of Arizona gray squirrels (*Sciurus arizonensis*): impacts of climatic variation. *Journal of Mammalogy* 94, In press.
- Doumas, S.L., J.L. Koprowski. 2013. Return of fire as a restoration tool: long-term effects of burn severity on habitat use by Mexican fox squirrels. *Restoration Ecology* 20: In press.
- Doumas, S.L., J.L. Koprowski. 2013. Effect of heterogeneity in burn severity on Mexican fox squirrels following the return of fire. *International Journal of Wildland Fire*. In press.
- Gwinn, R.N., E. Posthumus, J.L. Koprowski. 2013. *Mustela nudipes* (Carnivora: Mustelidae). *Mammalian Species*, In press.

- Jessen, R.R., M.J. Merrick, R.N. Gwinn, J.L. Koprowski. 2013. *Sciurillus pusillus* (Rodentia: Sciuridae). *Mammalian Species*, In press.
- Koprowski, J.L., M.J. Merrick, H.L. Chen, E. Posthumus. 2013. Global change and response of the squirrels (Sciuridae: Rodentia): the conservationist's canary? *Mammal Study*. Contracted review article.
- Quijada-Mascareñas, A., D. Falk, M. McClaran, J.L. Koprowski, M. Culver, S. Drake, S. Marsh, W. van Leeuwen, M. Skroch. 2013. Climate change, elevation gradients, shifting habitats, and ecological consequences in the Madrean Archipelago Sky Islands. *Climate Research*, In Press.
- Ramos-Lara, N., J.L. Koprowski, D.E. Swann. 2013. Nest-site characteristics of the montane endemic Mearns's squirrel (*Tamiasciurus mearnsi*): an obligate cavity-nester? *Journal of Mammalogy* 94, In press.
- Blount, S.J., J.L. Koprowski. 2012. Small mammal response to post-fire conditions: case of the endangered Mount Graham red squirrel. *Southwestern Naturalist* 57: 8-15.
- Gwinn, R. N., J.L. Koprowski, R.R. Jessen, M.J. Merrick. 2012. *Sciurus spadiceus* (Rodentia: Sciuridae). *Mammalian Species* 44:59-63.
- Merrick, M. J., J.L. Koprowski, R.N. Gwinn. 2012. *Sciurus stramineus* (Rodentia: Sciuridae). *Mammalian Species* 44:44-50.
- Munroe, K.E., J.L. Koprowski. 2012. Presence of copulatory plugs in round-tailed ground squirrels (*Xerospermophilus tereticaudus*). *Southwestern Naturalist* 57: 210-212.
- Ramos-Lara, N., J.L. Koprowski. 2012. Communal nesting behavior in Mearns's squirrels (*Tamiasciurus mearnsi*). *Southwestern Naturalist* 57: 195-198.
- Cudworth, N.L., J.L. Koprowski. 2011. Importance of scale in nest-site selection in Arizona gray squirrels. *Journal of Wildlife Management* 75: 1668–1674.
- Cudworth, N.L., J.L. Koprowski. 2011. *Microtus californicus*. *Mammalian Species* 42: 230-243.
- Gwinn, R.N., G.H. Palmer, J.L. Koprowski. 2011. *Sigmodon arizonae*. *Mammalian Species* 43: 149 – 154.
- Gwinn, R.N., G.H. Palmer, J.L. Koprowski. 2011. Virginia opossum (*Didelphis virginiana virginiana*) from Yavapai County, Arizona. *Western North American Naturalist* 71:113-114.
- McDonald, L.L., T.R. Stanley, D.L. Otis, D.E. Biggins, P.D. Stevens, J.L. Koprowski, W. Ballard. 2011. Recommended methods for range-wide monitoring of prairie dogs in the United States: U.S. Geological Survey Scientific Investigations Report 2011–5063, 36 p.
- Munroe, K.E., J.L. Koprowski. 2011. Sociality, Bateman's gradients and the polygynandrous genetic mating system of round-tailed ground squirrels (*Xerospermophilus tereticaudus*). *Behavioral Ecology and Sociobiology* 65: 1811-1824.
- Merrick, M.J., J.L. Koprowski, R.N.Gwinn, G.H. Palmer, C.A. Zugmeyer. 2011. Surveys to determine the status of red squirrels in Guadalupe Mountains National Park, Texas. *Southwestern Naturalist* 56: 24-28.

- Pasch, B.S., J.L. Koprowski. 2011. Impacts of fire suppression on space use of Mexican fox squirrels. *Journal of Mammalogy* 92: 227-234.
- Cudworth, N.L., J.L. Koprowski. 2010. Influences of mating strategy on space use of Arizona gray squirrels. *Journal of Mammalogy* 91: 1235-1241.
- Cudworth, N.L., J.L. Koprowski. 2010. First record of a breeding population of cliff chipmunk (*Tamias dorsalis*) in the Huachuca Mountains. *Western North American Naturalist* 70:418-420.
- Leonard, K.M., J.L. Koprowski. 2010. Effects of fire on endangered Mt. Graham red squirrels (*Tamiasciurus hudsonicus grahamensis*): responses of individuals with known fates. *Southwestern Naturalist* 55: 217-224.
- Jessen, R., M.J. Merrick, J.L. Koprowski, O. Ramirez. 2010. Presence of Guayaquil squirrels on the central coast of Peru: an apparent introduction. *Mammalia* 74: 443-444.
- Merrick, M.J. R.N. Gwinn, R.L. Minor, R.R. Jessen, T.G. Jessen, V.L. Greer, J. L. Koprowski. 2010. Endangered Mount Graham Red Squirrel (*Tamiasciurus hudsonicus grahamensis*) uses nest following lightning strike. *Southwestern Naturalist* 55: 123-124.
- Edelman, A.J., J.L. Koprowski, S.R. Bertelsen. 2009. Potential for nest site competition between native and exotic tree squirrels? *Journal of Mammalogy* 90: 167-174.
- Leonard, K.M., J.L. Koprowski. 2009. A comparison of habitat use and demography of red squirrels at the southern edge of their range. *American Midland Naturalist* 162: 132-145.
- Leonard, K.M., B.S. Pasch, J.L. Koprowski. 2009. *Sciurus pucherani*. *Mammalian Species* 841: 1-4.
- Zugmeyer, C.A., J.L. Koprowski. 2009. Severely insect-damaged forest may function as an ecological trap for red squirrels. *Forest Ecology and Management* 257: 464-470.
- Zugmeyer, C.A., J.L. Koprowski. 2009. Unaltered habitat selection after a severe insect infestation: concerns for forest-dependent species. *Journal of Mammalogy* 90: 175-182.
- Koprowski, J.L., N. Rajamani. 2008. Global hotspots, centers of diversity, and conservation of the tree and flying squirrels. *Current Science* 95: 851-856.
- Lurz, P.W.W., J.L. Koprowski, D.J. Wood. 2008. The use of GIS and modelling approaches in squirrel population management and conservation: a review. *Current Science* 95: 918-922.
- Koprowski, J.L., S.R.B. King, M. Merrick. 2007. Home ranges are expanded in a peripheral population of endangered Mt. Graham red squirrels. *Endangered Species Research* 3: 1-6.
- Edelman, A.J., J.L. Koprowski. 2007. Communal nesting in asocial Abert's squirrels: the role of social thermoregulation and breeding strategy. *Ethology* 113: 147-154.
- Edelman, A.J., J.L. Koprowski. 2007. Influence of female-biased sexual size dimorphism on dominance of female Townsend's chipmunks. *Canadian Journal of Zoology* 85: 1859-1863.
- Johnson, H., P.R. Krausman, V. Bleich, J.L. Koprowski. 2007. Effects of antler breakage on mating behavior in male Tule elk (*Cervus elaphus nannodes*). *European Journal of Wildlife Research*

53: 9-15.

Merrick, M., S.R. Bertelsen, J.L. Koprowski. 2007. Characteristics of Mount Graham red squirrel nest sites in a mixed conifer forest. *The Journal of Wildlife Management* 71:1958-1963.

Wood, D.J., J.L. Koprowski, P.W.W. Lurz. 2007. Tree squirrel introductions: A theoretical approach with population viability analysis. *Journal of Mammalogy* 88:1271-1279

Wood, D.J., S. Drake, S.P. Rushton, D. Rautenkranz, P. Lurz, J.L. Koprowski. 2007. Fine-scale analysis of Mount Graham red squirrel habitat following disturbance. *Journal of Wildlife Management* 71:2357-2364.

Zugmeyer, C.A., J.L. Koprowski. 2007. Avian nest predation by endangered Mt. Graham red squirrels. *Southwestern Naturalist* 52: 155-157.

Pasch, B.S., J.L. Koprowski. 2006. Annual cycles in body mass and reproduction of Chiricahua fox squirrels (*Sciurus nayaritensis chiricahuae*). *Southwestern Naturalist* 51: 531-535.

Edelman, A.J., J.L. Koprowski. 2006. Seasonal changes in home ranges of Abert's squirrels: impact of mating season and a novel habitat. *Canadian Journal of Zoology* 84: 404-411.

Koprowski, J.L., N. Ramos, B.S. Pasch, C.A. Zugmeyer. 2006. Observations on the ecology of the endemic Mearns's Squirrel (*Tamiasciurus mearnsi*). *Southwestern Naturalist* 51:426-430.

Rushton, S, D.J. Wood, P. Lurz, J.L. Koprowski. 2006. Population viability analysis of the Mt. Graham red squirrel: can we predict its future in a changing environment? *Biological Conservation* 131: 121-131.

Koprowski, J.L., K.M Leonard, C.J. Zugmeyer, J.L. Jolley. 2006. Direct effects of fire on endangered Mt. Graham red squirrels. *Southwestern Naturalist* 51: 59-63.

Edelman, A.J., J.L. Koprowski. 2006. Characteristics of Abert's squirrel (*Sciurus aberti*) cavity nests. *Southwestern Naturalist* 51: 64-70.

Pasch, B. S., J. L. Koprowski. 2006. Sex differences in space use of Chiricahua fox squirrels. *Journal of Mammalogy* 87: 380-386.

Koprowski, J.L. 2005. Annual cycles in body mass and reproduction in the endangered Mt. Graham red squirrel, a montane island endemic. *Journal of Mammalogy* 86:30-313.

Koprowski, J.L., M.I. Alanen, A.M. Lynch. 2005. Nowhere to run and nowhere to hide: response of endemic Mt. Graham red squirrels to catastrophic forest damage. *Biological Conservation* 127: 491-498.

Koprowski, J.L. 2005. Impacts of fragmentation on tree squirrels: a review and synthesis. *Animal Conservation* 8: 369-376.

Koprowski, J.L., M.C. Corse. 2005. Activity, time budgets, and behavior of Mexican fox squirrels. *Journal of Mammalogy* 86: 947-956.

Edelman, A.J., J.L. Koprowski. 2005. Diet and tree use of Abert's squirrels (*Sciurus aberti*) in a mixed-conifer forest. *Southwestern Naturalist* 50: 461-465.

- Edelman, A.J., J.L. Koprowski. 2005. Selection of drey sites by Abert's squirrels in an introduced population: the role of structure versus tree species. *Journal of Mammalogy* 86: 1220-1226.
- Koprowski, J.L., G.T. Kellison, S.L. Moneysmith. 2005. Status of red-bellied squirrels (*Sciurus aureogaster*) introduced to Elliott Key, Florida. *Florida Field Naturalist* 33: 128-129.
- McColgin, M., E. Brown, S. Bickford, A. Eilers, J.Koprowski. 2003. Coati use of Century Plants. *Southwestern Naturalist* 48:722-725.
- Hutton, K., J. Koprowski, V. Greer, M. Alanen, Schauffert, C., P. Young. 2003. Use of spruce-fir forests by introduced Abert's squirrels. *Southwestern Naturalist* 48:257-260.
- Schauffert, C., J. Koprowski, V. Greer, M. Alanen, K. Hutton. 2002. Interactions between predators and Mt. Graham red squirrels. *Southwestern Naturalist* 47:498-501.
- Koprowski, J.L. 2002. Handling tree squirrels with an efficient and safe restraint. *Wildlife Society Bulletin* 30:101-103.
- Koprowski, J.L., M.C. Corse. 2001. Food habits of Chiricahua fox squirrels (*Sciurus nayaritensis chiricahuae*). *Southwestern Naturalist* 46:62-65.
- Koprowski, J.L., N. Perigo. 2000. Cooperative learning as a tool to teach vertebrate anatomy. *American Biology Teacher* 26:282-284.
- Koprowski, J.L. 1997. Honing the craft of scientific writing: the role of peer review. *Journal of College Science Teaching* 27:133-135.
- Koprowski, J.L. 1996. Natal philopatry, communal nesting, and kinship in fox squirrels and eastern gray squirrels. *Journal of Mammalogy* 77: 1006-1016.
- Kneeland, M.C., J.L. Koprowski, M.C. Corse. 1995. Potential predators of Chiricahua fox squirrels. *Southwestern Naturalist* 40:340-342.
- Koprowski, J.L. 1994. *Sciurus carolinensis*. *Mammalian Species* 480:1-9.
- Koprowski, J.L. 1994. *Sciurus niger*. *Mammalian Species* 479:1-9.
- Koprowski, J.L. 1993. Alternative reproductive tactics in male eastern gray squirrels: "Making the best of a bad job". *Behavioral Ecology* 4:165-171.
- Koprowski, J.L. 1993. Behavioral tactics, copulatory success, and dominance among male fox squirrels. *Ethology Ecology & Evolution* 5:169-176.
- Koprowski, J.L. 1993. The role of kinship in field interactions of juvenile grey squirrels. *Canadian Journal of Zoology* 71:224-226.
- Koprowski, J.L. 1993. Sex and species biases in scent marking by fox squirrels and eastern gray squirrels. *Journal of Zoology (London)* 230:319-323.

Koprowski, J.L. 1993. Do estrous female gray squirrels, *Sciurus carolinensis*, advertise their receptivity? *Canadian Field-Naturalist* 106:392-394.

Fairbanks, L., J.L. Koprowski. 1992. Piscivory in fox squirrels. *Prairie Naturalist* 24:283-284.

Koprowski, J.L. 1992. Removal of copulatory plugs by female tree squirrels. *Journal of Mammalogy* 73:572-576.

Koprowski, J.L. 1991. Response of fox squirrels and eastern gray squirrels to a late spring-early summer food shortage. *Journal of Mammalogy* 72:367-372.

Koprowski, J.L. 1991. Damage due to scent marking by eastern gray and fox squirrels. *Proceeding of the Great Plains Wildlife Damage Conference* 10:101-105.

Koprowski, J.L. 1991. Mixed-species mating chases of fox squirrels and eastern gray squirrels. *Canadian Field- Naturalist* 105:117-118.

Koprowski, J.L. 1989. Burrow distribution of thirteen-lined ground squirrels in relation to tree canopies. *Prairie Naturalist* 21:185-188.

Koprowski, J.L., J.L. Roseberry, W.D. Klimstra. 1988. Longevity records for the fox squirrel. *Journal of Mammalogy* 69:383-384.

Koprowski, J.L. 1987. Nocturnal activity of the woodchuck in an urban Ohio park. *Canadian Field-Naturalist* 101:606-607.

Koprowski, J.L., N.M. Koprowski. 1987. Joint nest-building in the eastern gray squirrel. *Canadian Field-Naturalist* 101:610-611.

#### Peer-reviewed Proceedings and Technical Reports:

Koprowski, J.L., S. Doumas, M. Merrick, B. Oleson, E. Posthumus, T. Jessen, R.N. Gwinn. 2013. It's lonely at the top: biodiversity at risk to loss from climate change. In *Biodiversity and Management of the Madrean Archipelago III*. Proceedings RMRS-P-In press. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.

Merrick, M.J., J.L. Koprowski, C. Wilcox. 2013. Into the third dimension: benefits of incorporating LiDAR data in wildlife habitat models. In *Biodiversity and Management of the Madrean Archipelago III*. Proceedings RMRS-P-In press. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.

Hale, S.L., J.L. Koprowski, H. Hicks. 2013. A review of black-tailed prairie dog reintroduction strategies and site selection: Arizona reintroduction. In *Biodiversity and Management of the Madrean Archipelago III*. Proceedings RMRS-P-In press. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.

Chen, H.L., J.L. Koprowski. 2013. Effects of roads on wildlife in Arizona: how far have we traveled?

- In *Biodiversity and Management of the Madrean Archipelago III*. Proceedings RMRS-P-In press. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.
- Ketcham, S.L., J.L. Koprowski. 2013. Impacts of wildfire on wildlife in Arizona: a synthesis. In *Biodiversity and Management of the Madrean Archipelago III*. Proceedings RMRS-P-In press. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.
- Mitchell B., M. Waltermann, T. Mellin, C. Wilcox, A.M. Lynch, J. Anhold, D.A. Falk, J.L. Koprowski, D. Laes, D. Evans, H. Fisk. 2012. Mapping vegetation structure in the Pinaleno Mountains using lidar – phase 3: forest inventory modeling. USDA Forest Service, Remote Sensing Applications Center, RSAC-10007-RPT1. Salt Lake City UT, 17 p.
- McDonald, L.L., T.R. Stanley, D.L. Otis, D.E. Biggins, P.D. Stevens, J.L. Koprowski, W. Ballard. 2011. Recommended methods for range-wide monitoring of prairie dogs in the United States: U.S. Geological Survey Scientific Investigations Report 2011–5063, 36 p.
- Laes D., T. Mellin, C. Wilcox, J. Anhold, P. Maus, D.A. Falk, J.L. Koprowski, S. Drake, S. Dale, H. Fisk, P. Joria, A.M. Lynch, M. Alanen. 2009. Mapping vegetation structure in the Pinaleno Mountains using lidar. USDA Forest Service, Remote Sensing Applications Center, RSAC-0118-RPT1. Salt Lake City UT. 84 p.
- Koprowski, J.L. 2005. Management and conservation of tree squirrels: the importance of endemism, species richness, and forest condition. Pp. 245-250 In *Biodiversity and Management of the Madrean Archipelago II*. Proceedings RMRS-P-36. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., and C. Edminster, eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.
- Koprowski, J.L., A.J. Edelman, B.S. Pasch, D.J. Buecher. 2005. A dearth of data on mammals in the Madrean Archipelago: what we think we know and what we do know. Pp. 413-415 In *Biodiversity and Management of the Madrean Archipelago II*. Proceedings RMRS-P-36. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., and C. Edminster, eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.
- Edelman, A.J., J.L. Koprowski, J.L. Edelman. 2005. Kleptoparasitic behavior and species richness at Mt. Graham red squirrel middens. Pp. 395-398. In *Biodiversity and Management of the Madrean Archipelago II*. Proceedings RMRS-P-36. Gottfried, G. J., Gebow, B. S., Eskew, L. G., & Edminster, C. (Eds). RMRS-P-36. Fort Collins: United States Department of Agriculture, Forest Service, Rocky Mountain Research Station.
- Pasch, B.S., J.L. Koprowski. 2005. Correlates of vulnerability in Chiricahua Fox Squirrels. Pp. 426-428. In *Biodiversity and Management of the Madrean Archipelago II*. Proceedings RMRS-P-36. (Gottfried, G. J., Gebow, B. S., Eskew, L. G., and C. Edminster, eds.) United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins.
- Koprowski, J.L. 2005 (July 20). Pine Squirrel (*Tamiasciurus hudsonicus*): a technical conservation assessment. [Online]. USDA Forest Service, Rocky Mountain Region. Available: <http://www.fs.fed.us/r2/projects/scp/assessments/pinesquirrel.pdf>

Book Reviews:



Chen, H.L., J.L. Koprowski. 2011. Book Review: Safe passages: highways, wildlife, and habitat connectivity. *Journal of Mammalogy* 92: 1136-1141.

Koprowski, J.L. 2002. Book Review: An Atlas of Oregon Wildlife. *Journal of Mammalogy* 82.

Koprowski, J.L. 2002. Book Review: Animal Behavior. *Journal of Mammalogy* 82.

Koprowski, J.L. 1996. Book Review of The Black-Tailed Prairie Dog. *Journal of Wildlife Management* 60:971-973.

Koprowski, J.L. 1991. Book Review: Food hoarding in animals. *Journal of Insect Behavior* 4.

Koprowski, J.L. 1989. Book Review: Reproductive success: studies of individual variation in contrasting breeding systems. *Journal of Insect Behavior* 2:449-450.

#### Work in Progress:

Buecher, D., R. Sidner, J.L. Koprowski. Riparian areas as hot spots of bat diversity in arid environments. *Journal of Wildlife Management*, In review.

Derbridge, J.J., E.E. Posthumus, H.L. Chen, J.L. Koprowski. *Solenodon paradoxus* (Insectivora: Solenodontidae). *Mammalian Species*, In review.

Gwinn, R.N., J.L. Koprowski. Differential response to fire by endangered endemic Mt. Graham red squirrels and introduced Abert's squirrels. *Biological Invasions*, In review.

Jessen, R.R., G.H. Palmer, and J.L. Koprowski. Maternity nest of an Amazon red squirrel in a bromeliad. *Mastozoologia Neotropical*, In review.

Jessen, R.R., G.H. Palmer, and J.L. Koprowski. Neotropical pygmy squirrels (*Sciurillus pusillus*) share termite nests. *Ecotropics*, In review.

Koprowski, J.L., C.A. Zugmeyer, M.A. Yurenka. Middens function as refrigerators: microclimates of red squirrel larders. *Functional Ecology*, In review.

Koprowski, J.L., A. Nieto-Montes de Oca, R.M. Timm. *Sciurus aureogaster* (Rodentia: Sciuridae). *Mammalian Species*, In review.

Koprowski, J.L., M.A. Steele, N. Ramos-Lara. *Tamiasciurus mearnsi* (Rodentia: Sciuridae). *Mammalian Species*, In review.

Merrick, M.J., S.L. Ketcham, J.L. Koprowski. *Sciurus ignitus* (Rodentia: Sciuridae). *Mammalian Species*, In review.

McColgin, M.E., J.L. Koprowski, P.M. Waser. Behavioral plasticity in a social carnivore: dispersal trends in coatis (*Nasua narica*) across diverse habitats. In prep.

Minor, R., J.L. Koprowski. Invasive tree squirrels remove tree seeds more quickly than endangered endemic squirrels. *Biological Invasions*, In review.

Munroe, K.E., J.L. Koprowski, M.J. Merrick. *Sciurus flammifer* (Rodentia: Sciuridae). *Mammalian Species*, In press.

- Munroe, K.E., J.L. Koprowski, M.J. Merrick. *Sciurus gilvigularis* (Rodentia: Sciuridae). Mammalian Species, In press.
- Palmer, G., J.L. Koprowski, A. Pernas. Nest sites, nest trees, and nests of an introduced population of red-bellied squirrels (*Sciurus aureogaster*). Journal of Mammalogy, In review.
- Palmer, G., J.L. Koprowski, A. Pernas. Distribution and spread of an introduced insular population of red-bellied squirrels (*Sciurus aureogaster*), Florida, USA. Mammalia, In review.
- Ramos-Lara, N., J.L. Koprowski. Space use of Mearns's squirrels (*Tamiasciurus mearnsi*) without the constraints of larder hoarding. Behavioral Ecology, In review.
- Ramos-Lara, N., J.L. Koprowski, B. Kryštufek, I.E. Hoffmann. *Spermophilus citellus* (Rodentia: Sciuridae). Mammalian Species, In review.
- Zugmeyer, C.A., J.L. Koprowski, R. Andrade, C. Hallmark. *Sciurus aestuans*. Mammalian Species, In prep.

## Scholarly Presentations (Last 10 years):

### Invited:

- 2013 Saga of the Mt. Graham red squirrel: building bridges to move from a monitoring to a research program. University of Montana.  
The future of wildlife biology. University of Montana.
- 2012 Conservation challenges in a changing world: lessons from endangered montane squirrels. Wildlife Management Conference, National Institute of Biological Resources, South Korea.  
It's lonely at the top: Conservation challenges for the montane endemic Mt. Graham red squirrel. Willamette University.  
Ecosystem services and the value of arboreal squirrels in our changing world: multiple roles within the forest. Plenary, 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- 2011 Endangered species: Does the North American Model need to change? Student Leadership Group, The Wildlife Society, Kona, Hawaii.  
Trapped on an island: Ecological insights and conservation challenges in isolated populations. Towson University.
- 2010 Conservation challenges in forests: Tree squirrels as the miner's canary. Northern Arizona Univ.
- 2009 Bridging gaps: viewing challenges as opportunities to position NREM for the future. Iowa State University.  
Bridging gaps in endangered species conservation: saga of the Mt. Graham red squirrel. Michigan State University.
- 2008 Patterns and determinants of reproductive strategies and sociality in squirrels. Symposium of the Social Behavior of Small Mammals, Tokyo, Japan.  
Strategies for the conservation of small mammals. Tokyo Metropolitan University.  
Challenges for conservation of montane endemics: the saga of the endangered Mt. Graham red squirrel. University of New Mexico.
- 2006 Tree squirrels as indicator species: forest condition and the conservation strategies. 4<sup>th</sup> International Conference on the Ecology of Tree Squirrels, India (Plenary)  
Conservation of montane island endemics: the saga of the endangered Mt. Graham red

- squirrel. Northern Arizona University
- 2005 Conservation of montane island endemics: the saga of the endangered Mt. Graham red squirrel. Iowa State University  
Conservation of montane island endemics: the saga of the endangered Mt. Graham red squirrel. University of New Mexico (postponed)  
Conservation of tree squirrels: a North American perspective  
9<sup>th</sup> International Mammalogical Congress, Sapporo, Japan
- 2003 Conservation of tree squirrels: future directions for the study of arboreal squirrels  
3rd International Conference on the Ecology of Tree Squirrels, United Kingdom (Plenary)  
Challenges for the conservation of montane mammals. New Mexico State University
- 2001 The ecology of Mt. Graham red squirrels: trapped on a montane island. Univ. of Arizona
- 2000 The ecology of montane island mammals. Willamette University.  
The ecology of montane island mammals. University of Arizona.

**Submitted:**

- 2012 Using experimental removals and stable isotope analysis of diet to determine mechanisms of competition between an endangered tree squirrel and a non-native competitor. (w/J.J Derbridge) The Wildlife Society, Portland.
- Can red squirrel (*Tamiasciurus hudsonicus*) middens affect species diversity? (w/E. Posthumus) The Wildlife Society, Portland.
- Exploring the role of individual behavior and natal experience in dispersal of an endangered forest obligate (w/M. Merrick) The Wildlife Society, Portland.
- The Sciuridae: a definitive reference (w/R.W. Thorington, M.A. Steele, J.F. Whatton, P. Bohaska) American Society of Mammalogists, Reno.
- Can red squirrel (*Tamiasciurus hudsonicus*) middens affect species diversity? (w/E. Posthumus) American Society of Mammalogists, Reno.
- Exploring the role of individual behavior and natal experience in dispersal of an endangered forest obligate (w/M. Merrick) American Society of Mammalogists, Reno.
- Dispersal and settlement in an endangered forest obligate: influence of behavior and forest structure (w/M.J. Merrick) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- Can red squirrel middens influence species diversity? (w/E.E. Posthumus) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- Road effects on movements and occupancy of red squirrels (w/H.L. Chen) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- Communal nest use by cliff chipmunks *Tamias dorsalis* (w/M. Kawamichi, M.J. Merrick, K. Hazama, T. Kawamichi) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.

- Predicting mating systems in tree squirrels using social organization models of ground-dwelling sciurids (w/K.E. Munroe) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- The even darker side of the eastern gray squirrel (*Sciurus carolinensis*): a review of global introductions, invasion biology, and pest management strategies (w/H.M. Huynh, S. Bertolino, P.W.W. Lurz, G.R. Williams, C.W. Thompson, D.F. McAlpine) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- Impact of introduced Abert's squirrels on the endangered Mount Graham red squirrel (w/J.J. Derbridge) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- Hairtube sampling for detection and identification of small mammals (w/T.G. Jessen) 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- Conservation of the arboreal squirrels: how well are we doing? 6<sup>th</sup> International Colloquium on Arboreal Squirrels, Kyoto, Japan.
- 2011    Hairtube sampling for detection and identification of small mammals (w/Timothy G. Jessen)  
The Wildlife Society, Kona, Hawaii
- Barrier effects of roads: boundary of home ranges of endangered Mt. Graham red squirrels (w/H.L. Chen) The Wildlife Society, Kona, Hawaii
- Does larderhoarding by endangered Mount Graham red squirrels facilitate interspecific competition with non-native Abert's squirrels? (w/Jonathan J. Derbridge)  
The Wildlife Society, Kona, Hawaii
- Population and behavioral ecology of Black-Tailed Prairie Dogs (w/Sarah L. Hale)  
The Wildlife Society, Kona, Hawaii
- Habitat associations and use by neotropical tree squirrels in the Peruvian Amazon (w/R. Jessen)  
The Wildlife Society, Kona, Hawaii
- Investigating age-specific habitat use during natal dispersal (w/Melissa Merrick)  
The Wildlife Society, Kona, Hawaii
- Differential response of a native and an introduced squirrel to a mosaic of burn severities (w/Shari L. Ketcham) The Wildlife Society, Kona, Hawaii
- Can red squirrel middens influence species diversity? (w/Erin E. Posthumus)  
The Wildlife Society, Kona, Hawaii
- Squirrels of the world: the world of squirrels (w/Richard W. Thorington, Jr., Michael A. Steele, James F. Whatton, Paula W. Bohaska) American Society of Mammalogists, Portland State University
- The subterranean life of an arboreal squirrel: burrow use by endangered Mt. Graham red squirrels (w/Emily H. Scobie, Melissa J. Merrick, Vicki L. Greer) American Society of Mammalogists, Portland State University
- Dispersal and settlement in an endangered forest obligate: multiple approaches (w/Melissa J.

- Merrick) American Society of Mammalogists, Portland State University
- Conservation of the endangered Mt. Graham red squirrel: much more than Scopes vs. Squirrels  
American Society of Mammalogists, Portland State University
- Hairtube sampling for detection and identification of small mammals (w/Timothy G. Jessen)  
American Society of Mammalogists, Portland State University
- Habitat associations and use by Neotropical tree squirrels in the Peruvian Amazon (w/Rosa R. Jessen) American Society of Mammalogists, Portland State University
- Social behaviors and genetic structure in a population of round-tailed ground squirrels (*Xerospermophilus tereticaudus*): what you see isn't always what you get (w/ Karen E. Munroe) American Society of Mammalogists, Portland State University
- A stranger in the genus: life history of the montane endemic Mearns's squirrel (*Tamiasciurus mearnsi*) (w/N. Ramos-Lara) American Society of Mammalogists, Portland State University
- Habitat use and Associations of Neotropical Tree Squirrels: Pygmy Feet Fill Big Conservation Shoes (w/Rosa R. Jessen) AZ-NM Chapters of The Wildlife Society, Hon-Dah, Arizona
- Novel method for detection and identification of small mammals (w/Timothy G. Jessen)  
AZ-NM Chapters of The Wildlife Society, Hon-Dah, Arizona
- Dispersal and settlement in an endangered forest obligate: multiple approaches (w/Melissa J. Merrick) AZ-NM Chapters of The Wildlife Society, Hon-Dah, Arizona
- A Primer on the Endangered Mt. Graham Red Squirrel: Current Status and Threats  
AZ-NM Chapters of The Wildlife Society, Hon-Dah, Arizona
- Do roads serve as boundary of home ranges of Mt. Graham red squirrels? (w/Hsiang Ling Chen)  
AZ-NM Chapters of The Wildlife Society, Hon-Dah, Arizona
- 2010 Road impacts on endangered Mt. Graham red squirrels (w/H.L. Chen) The Wildlife Society, Snowbird, Utah
- Can tree squirrels serve as indicators of tropical forest quality? (w/R. Jessen) The Wildlife Society, Snowbird, Utah
- The mating system and intensity of selection in round-tailed ground squirrels: insight from microsatellite analysis. (w/K.E. Munroe) American Society of Mammalogists, University of Wyoming.
- Mammals in the third dimension: Incorporating LiDAR in wildlife habitat models (w/M. Merrick et al.) American Society of Mammalogists, University of Wyoming.
- Effects of fire heterogeneity on habitat use of Mexican fox squirrels following the return of historical fire (w/S. Doumas) American Society of Mammalogists, University of Wyoming.
- Comparisons of the home ranges of two sciurids in areas affected by wildfire: Implications for

conservation of the Mount Graham red squirrel (w/R.N. Gwinn, S. Blount) American Society of Mammalogists, University of Wyoming.

A stranger in the genus: life history of the montane endemic Mearns's squirrel (*Tamiasciurus mearnsi*) (w/N. Ramos-Lara) American Society of Mammalogists, University of Wyoming.

Testing efficacy and application of hair tube sampling on small mammals (w/T. Jessen) American Society of Mammalogists, University of Wyoming.

Can tree squirrels serve as indicators of tropical forest quality? (w/R. Jessen) AZ-NM Chapters of The Wildlife Society, Flagstaff, Arizona

Mammals in the third dimension: Incorporating LiDAR in wildlife habitat models (w/M. Merrick et al.) AZ-NM Chapters of The Wildlife Society, Flagstaff, Arizona

Effects of fire heterogeneity on habitat use of Mexican fox squirrels following the return of historical fire (w/S. Doumas) AZ-NM Chapters of The Wildlife Society, Flagstaff, Arizona

2009

Comparisons of the home ranges of two sciurids in areas affected by wildfire: implications for conservation of the Mount Graham red squirrel (w/N. Gwinn, S. Blount) The Wildlife Society, Monterey.

Effects of sex and season on home range dynamics of Arizona gray squirrels (*Sciurus arizonensis*). (w/N. Cudworth) American Society of Mammalogists, Fairbanks.

Test of sociality models in the round-tailed ground squirrel (w/K. Munroe) American Society of Mammalogists, Fairbanks.

2008

Fire on a sacred mountain: Response of the endangered Mount Graham red squirrel. (w/S. Blount) The Wildlife Society, Miami.

Does red squirrel space use track resource availability? Evidence from an endangered, peripheral population (w/M. Merrick) The Wildlife Society, Miami

Assessment of an introduced population of Mexican red-bellied squirrels in Biscayne National Park, Florida, United States (w/G. Palmer, T. Pernas) The Wildlife Society, Miami

Mexican fox squirrel use of fire-impacted forest. (w/ S. Doumas) The Wildlife Society, Miami

Cone-opening is related to microclimate and forest structure at red squirrel middens: Potential impacts of climate change and forest management.(w/C. Zugmeyer, M. Yurenka). The Wildlife Society, Miami

Effects of sex and season on home range dynamics of Arizona gray squirrels (*Sciurus arizonensis*). The Wildlife Society, Miami

Individual responses to disturbance: A case study of Mt. Graham red squirrels and fire (w/K. Leonard) The Wildlife Society, Miami.

Comparisons of the home ranges of two sciurids in areas affected by wildfire: implications for

- conservation of the Mount Graham red squirrel (w/N. Gwinn, S. Blount) The Wildlife Society, Miami
- Dispersal in a social carnivore (*Nasua narica*): tropical versus temperate trends (w/M. McColgin, P. Waser) American Society of Mammalogists, Brookings, South Dakota
- Microsatellite characterization in the round-tailed ground squirrel (w/K. Munroe) American Society of Mammalogists, Brookings, South Dakota
- Abert's squirrels in burned and unburned forest: implication for conservation (w/N. Gwinn). American Society of Mammalogists, Brookings, South Dakota
- An introduced population of Mexican red-bellied squirrels in Biscayne National Park, Florida (w/G.Palmer) American Society of Mammalogists, Brookings, South Dakota
- Mexican fox squirrel use of fire-impacted forest. (w/ S. Doumas) American Society of Mammalogists, Brookings, South Dakota
- Effects of sex and season on home range dynamics of Arizona gray squirrels (*Sciurus arizonensis*). American Society of Mammalogists, Brookings, South Dakota
- 2007
- Chiropteran community structure along a Sonoran Desert riparian corridor (w/D.C. Buecher, R. Sidner) The Wildlife Society, Tucson, Arizona.
- Red squirrels at the range periphery: A comparison of endangered Mt. Graham red squirrels and their nearest neighbors (w/K. Leonard) The Wildlife Society, Tucson, Arizona
- Coyote use of the urban landscape in Tucson, Arizona.(w/S.Grubbs, P.R. Krausman, E. Ostergaard) The Wildlife Society, Tucson, Arizona
- Ecology of the Mearns's Squirrel (*Tamiasciurus mearnsi*) in the Sierra de San Pedro Mártir, Mexico (w/N. Ramos-Lara,) The Wildlife Society, Tucson, Arizona
- Female reproductive characteristics of round-tailed ground squirrels: Implications for managing wildlife in parks preserving cultural resources (w/K. Munroe) The Wildlife Society, Tucson, Arizona
- Nest site selection by Mexican red-bellied squirrels introduced to Biscayne National Park.(w/ G.H. Palmer) The Wildlife Society, Tucson, Arizona
- Abert's squirrel densities in burned and unburned mixed conifer forest. (w/R.N. Gwinn) The Wildlife Society, Tucson, Arizona
- Mesocarnivore historic use of corridors through the Sonoran Desert: The impact of urbanization (w/M. Greenlee-Rheude, M.Culver) The Wildlife Society, Tucson, Arizona
- Disturbance in isolation: Response of endangered Mount Graham red squirrel to severe insect infestation.(w/C.A. Zugmeyer) The Wildlife Society, Tucson, Arizona
- Reproductive success of Mount Graham red squirrels: demographic and resource influences (w/V.L. Greer) The Wildlife Society, Tucson, Arizona

- Wild Cat Connections: Combining local-global research of wild cats with public outreach. (w/L. Haynes, M. Culver, W.W. Shaw, C.Z. Hackl) The Wildlife Society, Tucson, Arizona
- Overlap in space and habitat use between introduced Abert's squirrels and endemic endangered Mt. Graham red squirrels (w/M.J. Merrick, A.J. Edelman) The Wildlife Society, Tucson, Arizona
- Isolation, climate change, and ecological traps: challenges for mammal conservation in terrestrial archipelagos. Island mammal symposium. 5<sup>th</sup> European Mammal Congress, Siena, Italy.
- Tree squirrels as invasive species: conservation & management (w/G. Palmer, A. Pernas). Managing Vertebrate Invasive Species, Ft. Collins.
- Space and habitat use of introduced Abert's squirrels and endemic Mt. Graham red squirrels. (w/AJ Edelman and MJ Merrick). American Society of Mammalogists, Albuquerque, New Mexico.
- Nest site selection by Mexican red-bellied squirrels (*Sciurus aureogaster*) introduced to Biscayne National Park (w/GH Palmer). American Society of Mammalogists, Albuquerque, New Mexico.
- City skunk, country skunk: are nuisance carnivores rural migrants or urban residents? (w/M. Rheude, M. Culver, and T. Edwards). American Society of Mammalogists, Albuquerque, New Mexico.
- The red squirrel midden: nature's refrigerator (w/C. Zugmeyer). American Society of Mammalogists, Albuquerque, New Mexico.
- Inter-annual variation in annual cycles of female round-tailed ground squirrels: the difference a year makes! (w/K. Munroe). American Society of Mammalogists, Albuquerque, New Mexico.
- Factors affecting carnivore sociality: influence of population density on group size and cohesion in coatis (*Nasua narica*). (w/M. McColgin and P. Waser). American Society of Mammalogists, Albuquerque, New Mexico.
- Ecology and conservation of the endangered Mt. Graham Red Squirrel: a revised primer. 40<sup>th</sup> AZ-NM Chapters of The Wildlife Society, Albuquerque, NM.
- Is the red squirrel midden a natural refrigerator? (w/C. Zugmeyer, M. Yurenka). 40<sup>th</sup> AZ-NM Chapters of The Wildlife Society, Albuquerque, NM.
- Ecology of the Mearns's Squirrel (*Tamiasciurus mearnsi*) in the Sierra de San Pedro Mártir, Mexico (w/N. Ramos-Lara,) The Wildlife Society, Tucson, Arizona
- Modeling the future of the endangered Mt. Graham red squirrel in the face of disturbance. (w/D.J. Wood et al.). 40<sup>th</sup> AZ-NM Chapters of The Wildlife Society, Albuquerque, NM.
- Maternal nesting behavior in the Mt. Graham Red Squirrel: habitat and spatial influences (w/V. Greer). 40<sup>th</sup> AZ-NM Chapters of The Wildlife Society, Albuquerque, NM.



- Mortalities in the endangered Mt. Graham Red Squirrel (*Tamiasciurus hudsonicus grahamensis*): influence of habitat quality and predation (w/M.J. Merrick, D.J. Wood). 40<sup>th</sup> AZ-NM Chapters of The Wildlife Society, Albuquerque, NM.
- 2006 Global hotspots, centers of diversity, and conservation of tree and flying squirrels. (w/N. Rajamani). The Wildlife Society, Anchorage, AK.
- Global hotspots, centers of diversity, and conservation of tree and flying squirrels. (w/N. Rajamani). The Wildlife Society, Anchorage, AK.
- Maternal nesting behavior of the Mt. Graham red squirrel: Habitat and spatial influences. (w/V. Greer). The Wildlife Society, Anchorage, AK.
- Mortalities in the endangered Mt. Graham red squirrel: Influence of predation and habitat quality (w/M. Merrick). The Wildlife Society, Anchorage, AK.
- Effects of fire on endangered Mt. Graham red squirrel (w/S. Blount, D. Wood, T. Snow). The Wildlife Society, Anchorage, AK.
- Resource reduction related to insect infestation: Are Mt. Graham red squirrels affected? (w/C. Zugmeyer). American Society of Mammalogists, Amherst, MA.
- Conservation of tree and flying squirrels: world-wide challenges and solutions. 4th International Conference on the Ecology of Tree Squirrels, India
- Home range of endangered Mt. Graham red squirrels in insect damaged forests. (w/C. Zugmeyer). 4th International Conference on the Ecology of Tree Squirrels, India
- The importance of fire in the ecology of Mexican fox squirrels (w/B. Pasch). 4th International Conference on the Ecology of Tree Squirrels, India
- Functional semelparity as a proximate cause of endangerment in the Mt. Graham red squirrel (w/V. Greer). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- Nest site selection of endangered Mt. Graham red squirrels in a mixed-conifer forest. (w/M. Merrick, S. Bertelsen). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- Comparison of nest-site characteristics between endangered Mt. Graham red squirrels and Introduced Abert's squirrels (w/A.J. Edeman, S. Bertelsen). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- Communal nesting in the Mt. Graham red squirrel (w/V. Greer). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- Predicting midden locations based on habitat characteristics of the Mt. Graham red squirrel (*Tamiasciurus hudsonicus grahamensis*) (w/D. Wood, S. Rushton, P. Lurz, S. Drake). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- Resource reduction related to insect infestation: Are Mt. Graham red squirrels affected? (w/C. Zugmeyer). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.

- Impact of multiple insect outbreaks on Mt. Graham red squirrel habitat (w/A. Lynch, M. Alanen). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- Ecology of the Mearns's squirrel (*Tamiasciurus mearnsi*) in the Sierra de San Pedro Martir (w/N. Ramos). 39<sup>th</sup> AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- 2005 Impacts of forest fragmentation on tree squirrels: a comparative approach. 9<sup>th</sup> International Mammalogical Congress, Sapporo, Japan.
- Space use and social organization of endangered Mt. Graham red squirrels: it's lonely at the top. (w/SRB King). The Wildlife Society, Madison, WI.
- Direct Effects of Fire on Endangered Mt. Graham Red Squirrels. (w/C. Zugmeyer, K. Leonard, J. Jolley). American Society of Mammalogists, Springfield, MO.
- A PVA approach to assess conservation strategies for the Mt. Graham Red Squirrel (w/D. Wood). American Society of Mammalogists, Springfield, MO.
- Comparative Analysis of Home Range Size in the Endangered Mt. Graham Red Squirrel and a Closely Related Subspecies (w/K. Leonard). American Society of Mammalogists, Springfield, MO.
- Nesting behavior of the Mount Graham red squirrel (*Tamiasciurus hudsonicus grahamensis*) (w/V. Greer). American Society of Mammalogists, Springfield, MO.
- A dearth of data on mammals in Arizona and New Mexico: what do we really know? (w/A. Edelman, B. Pasch, D. Buecher). AZ-NM Chapter of The Wildlife Society, Gallup, NM.
- Direct Effects of Fire on Endangered Mt. Graham Red Squirrels. (w/C. Zugmeyer, K. Leonard, J. Jolley). AZ-NM Chapter of The Wildlife Society, Gallup, NM.
- How small is too small: Minimum viable population size in tree squirrels (w/D. Wood) AZ-NM Chapter of The Wildlife Society, Gallup, NM.
- Comparative Analysis of Home Range Size in the Endangered Mt. Graham Red Squirrel and a Closely Related Subspecies (w/K. Leonard) AZ-NM Chapter of The Wildlife Society, Gallup, NM.
- Cone caching strategy and its impact on the Mt. Graham red squirrel population (w/S. King, S. Bertelsen). AZ-NM Chapter of The Wildlife Society, Gallup, NM.
- Age specific time budgets of the Mount Graham red squirrel (*Tamiasciurus hudsonicus grahamensis*) (w/V. Greer). AZ-NM Chapter of The Wildlife Society, Gallup, NM.
- 2004 Space use and social organization of endangered Mt. Graham red squirrels: it's lonely at the top. American Society of Mammalogists, Arcata, CA (w/SRB King)
- Influence of sex on seasonal space use of Abert's squirrels. American Society of Mammalogists, Arcata, CA (w/AJ Edelman)
- Characteristics of nest sites used by endangered Mount Graham red squirrels (*Tamiasciurus*

- hudsonicus grahamensis*). American Society of Mammalogists, Arcata, CA (w/SR Bertelsen)
- Cone caching strategy and its impact on the Mt. Graham red squirrel population. American Society of Mammalogists, Arcata, CA (w/S.R.B. King and SR Bertelsen)
- Sex and age differences in time budgets of endangered Mt. Graham red squirrels. American Society of Mammalogists, Arcata, CA (w/V Greer).
- Space use and social organization of endangered Mt. Graham red squirrels: it's lonely at the top. AZ-NM Chapter of The Wildlife Society, Safford AZ (w/SRB King)
- Cone storage in endangered Mt. Graham red squirrel middens: how the midden affects the cone. AZ-NM Chapter of The Wildlife Society, Safford AZ (w/M Yurenka)
- Seeing the forest for the trees: nest site selection of the endangered Mt. Graham red squirrel. AZ-NM Chapter of The Wildlife Society, Safford AZ (w/SR Bertelsen)
- 2003 Impacts of Habitat Fragmentation on Tree Squirrels: Correlates, Consequences, and Conservation. The Wildlife Society, Burlington VT
- Nesting ecology of introduced Abert's squirrels and endangered Mt. Graham red squirrels (w/A.Edelman, S.Taylor). The Wildlife Society, Burlington.
- Impacts of fragmentation on tree squirrels: correlates, consequences, and conservation. American Society of Mammalogists, Lubbock, TX.
- Space use of Chiricahua fox squirrels relative to fire history (w/BS Pasch). American Society of Mammalogists, Lubbock, TX.
- Space use of sympatric endangered Mount Graham red squirrels and introduced Abert's squirrels (w/AJ Edelman). American Society of Mammalogists, Lubbock, TX.
- Ecology of the endangered Mt. Graham Red Squirrel: a primer. AZ-NM Chapter of The Wildlife Society, Gallup NM.
- Space use of sympatric endangered Mount Graham red squirrels and introduced Abert's squirrels (w/AJ Edelman). AZ-NM Chapter of The Wildlife Society, Gallup NM.
- Space use of Chiricahua fox squirrels relative to fire history (w/BS Pasch). AZ-NM Chapter of The Wildlife Society, Gallup NM.
- Habitat characteristics of the territories of Mt. Graham red squirrels: do sex differences exist? (w/Alanen, M I, Grinder M I, Greer, V I, Coates, C A, and Hutton, K A). Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona.
- Introduced Abert's squirrels on Mt. Graham: Could they be contributing to the decline of the red squirrel. (w/AJ Edelman). Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona.
- Effect of human and non-human disturbance on Mt. Graham Red Squirrels. (w/SRB King) Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona.

- The social and mating systems of red squirrels: do Mt. Graham red squirrels fit the pattern? (w/KE Munroe, VL Greer). Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona.
- Site characteristics of traditional and newly established middens of the Mount Graham Red Squirrel. (w/S Taylor\*) Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona.
- A review of methods for trapping, handling and marking tree squirrels with special reference to Mt. Graham red squirrels. Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona.
- A comparison of the census methods used to monitor Mt. Graham red squirrels (w/T. Snow) Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona.
- The dilemma of the small population: potential consequences of the isolation of Mt. Graham red squirrels (w/RJ Steidl). Conference on the Ecology of the Mt. Graham Red Squirrel, Safford, Arizona..
- Seeing the forest for the trees: nest-site selection of the endangered Mount Graham red squirrels (*Tamiasciurus hudsonicus grahamensis*). (w/S.Taylor) 3<sup>rd</sup> International Conference on the Ecology of Tree Squirrels, University of Newcastle-upon-Tyne.
- Space use of Chiricahua fox squirrels relative to fire history (w/BS Pasch). 3<sup>rd</sup> International Conference on the Ecology of Tree Squirrels, University of Newcastle-upon-Tyne.
- How small is too small: minimum viable population size in tree squirrels (w/D Wood). 3<sup>rd</sup> International Conference on the Ecology of Tree Squirrels, University of Newcastle-upon-Tyne.
- Space use of sympatric endangered Mount Graham red squirrels and introduced Abert' squirrels (w/AJ Edelman). 3<sup>rd</sup> International Conference on the Ecology of Tree Squirrels, University of Newcastle-upon-Tyne.
- Activity and Time Budgets of the Mt. Graham Red Squirrel (w/VL Greer) 3<sup>rd</sup> International Conference on the Ecology of Tree Squirrels, University of Newcastle-upon-Tyne.
- 2002 Response of endangered Mt. Graham red squirrels to damage related to insect infestations  
The Wildlife Society, Bismarck, ND
- Ecology of the social coati in semiarid montane islands: we're not in the tropics anymore!  
Ecological Society of America, Tucson, AZ
- Response of endangered Mt. Graham red squirrels to damage related to insect infestations  
American Society of Mammalogists, Lake Charles, LA
- Conservation status of Mexican Fox Squirrels in Arizona: Trapped on a Sky Island.  
Arizona-New Mexico Chapter, The Wildlife Society, Safford, AZ
- Nest site selection in introduced Abert's Squirrels and endangered Mt. Graham red Squirrels (w/A. Edelman, S. Taylor). American Society of Mammalogists, Lake Charles, LA

- Sex differences in the midden characteristics of Mt. Graham red squirrels (w/M. Alanen, M. Grinder). Arizona-New Mexico Chapter, The Wildlife Society, Safford, AZ
- Use of spruce-fir forests by introduced Abert's squirrels (w/K. Hutton, V. Greer, M. Alanen, C. Schauffert, and P. Young). Arizona-New Mexico Chapter, The Wildlife Society, Safford, AZ
- Population trends of the Mt. Graham red squirrel (w/C. Schauffert, V. Greer). Arizona-New Mexico Chapter, The Wildlife Society, Safford, AZ
- 2001 Ecology of the social coati in semiarid montane islands: we're not in the tropics anymore! The Wildlife Society, Reno, NV
- Use of spruce-fir forests by introduced Abert's squirrels (w/K. Hutton, V. Greer, M. Alanen, C. Schauffert, and P. Young). The Wildlife Society, Reno, NV
- Sex differences in the midden characteristics of Mt. Graham red squirrels (w/M. Alanen, M. Grinder). The Wildlife Society, Reno, NV
- Population trends of the Mt. Graham red squirrel (w/C. Schauffert, V. Greer). The Wildlife Society, Reno, NV
- Sex differences in the ecology of Mexican fox squirrels. American Society of Mammalogists, Missoula, MT
- 2000 Habitat associations and microhabitat preferences in Chiricahua fox squirrels: trapped on a sky island. 2<sup>nd</sup> International Colloquium on the Ecology of Tree Squirrels, Sublimity, OR
- Sex differences in time and activity budgets in Chiricahua fox squirrels. 2<sup>nd</sup> International Colloquium on the Ecology of Tree Squirrels, Sublimity, OR
- Sex and age differences in body fat composition in eastern gray squirrels (w/S. Howe). 2<sup>nd</sup> International Colloquium on the Ecology of Tree Squirrels Sublimity, OR

## Grants and Contracts (Last 10 years)

### Active Grants:

*Mt. Graham Red Squirrel Monitoring Program.* 100%, PI, University of Arizona, VP for Research, \$210,000-\$250,000/yr. 2000 to present.

*Status of Arizona Gray Squirrels in the Santa Catalina and Rincon Mountains: The Impact of Introduced Abert's Squirrels.* 100%, PI. Arizona Game and Fish Department, \$30,580. 2012 to present.

*Climate change impacts on a keystone forest species.* 100% PI, USDA Forest Service Rocky Mountain Research Station, \$70,000. 2010 to present.

*Impact of introduced Abert's squirrels on endangered Mt. Graham red squirrels: removal experiments*

- as an assessment and management tool* 100%, PI, Arizona Game and Fish Department Heritage Grant (IIAPM), \$79,747. 2009 to present.
- Forest structure and fire influences on endangered Mt. Graham red squirrels.* 100%, PI, USDA Forest Service Rocky Mountain Research Station, \$133,000. 2008 to present.
- Effect of reintroduction of black-tailed prairie dogs on the grasslands in southeastern Arizona* 100%, PI, Bureau of Land Management, \$45,000. 2008 to present.
- Expansion of reintroduced black-tailed prairie dog colonies in southeastern Arizona* 100%, PI, Arizona Game and Fish Department, \$165,000. 2013 to present.
- Range conditions, endangered Pima pineapple cactus and antelope jackrabbits* 100%, PI, US Fish & Wildlife Service, \$50,000. 2013 to present.
- Mt. Graham red squirrel response the fire-induced changes in forest structure.* 100%, PI, Wildland-Urban Interface Fuels and Forest Health Restoration in the Southwest Work Unit, US Forest Service, \$116,000. 2004 to present.
- Re-evaluation of the Kaibab Squirrel National Natural Landmark.* 100%, PI, National Park Service-National Natural Landmark Program, \$21,000, 2010 to present.
- Forest mammal diversity and conservation in sky island relicts.* 100%, PI, University of Arizona Agricultural Experiment Station, \$24,500. 2001 to present.

### **Pending Grants:**

- Forest destruction or forest regeneration in savannas: from mice to elephants.* 50%, PI (Co-PI M. Stokes). National Science Foundation, \$425,000. To be submitted 2013.
- Restoring connectivity for San Bernardino flying squirrels after the Grass Valley Fire.* 100%, PI. USDA Forest Service, \$153,000. Submitted.
- Evaluation, inventory and mapping of subtropical grasslands critical to the antelope jackrabbit (Lepus alleni).* 100%, PI. Arizona Game and Fish Department, \$69,700. Submitted.
- Integrating research and outreach: the ecology of Tucson's urban bobcats.* 100%, PI. Arizona Game and Fish Department, \$23,000. Submitted.
- Sonoran ocelot habitat use and conservation on borderlands.* 100%, PI. Arizona Game and Fish Department, \$46,000. Submitted.
- Resource competition between introduced Abert's and endangered Mount Graham red squirrels.* 100%, PI. Arizona Game and Fish Department, \$57,000. Submitted.
- Genetic assessment of black-tailed prairie dogs in Arizona and Sonora.* 100%, PI. Arizona Game and Fish Department, \$70,000. Submitted.
- Biodiversity assessment of the Ruby Star: evaluation of potential indicator species.* 100%, PI. Reid Park Zoo, Tucson, \$98,000. Submitted.

**Completed Grants:**

*Tucson Mountain cats: mountain lions at the urban-wildlife interface.* 25%, Co-PI with L. Haynes, M. Culver, Pima County, \$35,000, 2007 to 2010.

*Conservation genetics of white-nosed coatis in the Madrean Archipelago.* 100%, PI, Western National Parks Association, \$7,500. 2006 to 2008.

*Ecology of the native Arizona gray squirrel.* 100%, PI, Arizona Game and Fish Department Heritage Fund IIPAM Competition, \$56,000. 2006 to 2009.

*Effects of fire on Mexican fox squirrels in the Chiricahua Mountains.* Arizona Game and Fish \ Department Heritage Fund IIPAM Competition, \$45,000. 2006 to 2009

*Ecology of mountain lions in the Tucson Basin.* 15%, Co-PI with P. Krausman, W. Shaw, Arizona Game and Fish Department, \$120,000, 2005 to 2009. Credit to JLK is \$18,000.

*A rapid assessment of the status of introduced Mexican Red-bellied Squirrels at Biscayne National Park.* 100%, PI, National Park Service Invasive Species Program, \$25,600, 2005 to 2008.

*Ecology of introduced Abert's Squirrels in the Rincon Mountains.* 100%, PI, National Park Service PMIS Competition, \$52,500, 2003 to 2007.

*Response of endangered Mt. Graham red squirrels to the Pinaleno Ecosystem Demonstration Project.* 100%, PI, Wildland-Urban Interface Fuels and Forest Health Restoration in the Southwest Work Unit, US Forest Service, \$95,000. 2001 to 2007.

*Response of endangered Mt. Graham red squirrels to the Nuttall Complex Fire.* 100%, PI, Arizona Game and Fish Department, \$90,000. 2004 to 2009.

*Impact of insect damage on endangered Mt. Graham Red Squirrels.* 100%, PI, Arizona Game and Fish Department, \$150,000. 2003 to 2008

*Ecology of the threatened Mearns's Squirrel in Baja California.* 100%, PI, Desert Southwest CESU, \$10,000. 2004 to 2008.

*Forest structure, tree squirrel status, and fire in Saguaro National Park and Parque Nacional Sierra San Pedro Martir.* 100%, National Park Service IMRICO Competition, \$44,000, 2005 to 2009.

*Survey of the high elevation forest of Guadalupe Mountains National Park.* 100%, PI, Desert Southwest CESU, \$5,500, 2004 to 2007.

*Ecology of Round-tailed Ground Squirrels at Casa Grande Ruins National Monument.* 100%, PI, Western National Parks Association, \$7,500, 2003 to 2009.

*Ecology of introduced Abert's Squirrels in the Rincon Mountains.* 100%, PI, Western National Parks Association, \$7500. 2001 to 2005.

*Fire, Population Ecology and Habitat Use of Mexican fox squirrels.* 100%, PI, DS-CESU, National Parks Service, \$20,000. 2001 to 2004, completed.

*Species Assessment: Tamiasciurus hudsonicus.* 100%, PI, Region 2, US Forest Service, \$15,500. 2001 to 2005, completed.

*Comparison of Site Characteristics of extant Black-tailed Prairie Dogs Populations in Sonora and proposed reserves in Arizona.* 100%, PI, Arizona Game and Fish Department Heritage Fund IIPAM Competition, \$42,000. 2002 to 2005, completed.

*Ecology and Conservation of Relict Populations of Black-tailed Prairie Dogs in Sonora.* 100%, Cleveland Zoological Society, \$5,000. 2001 to 2005, completed.

*Potential Ecological Overlap between the Native and Introduced Tree Squirrels,* 100%, PI, Small Faculty Grants, University of Arizona, VP for Research, \$5,000. 2001 to 2003, completed.

*Status of the native Arizona Gray Squirrel in the Santa Catalina Mountains.* 100%, PI, US Forest Service, Coronado National Forest, \$5,000, granted but frozen due to USFS overrun on 2002 Forest Fire Budgets.

*Assessing carnivore diversity in Chiricahua National Monument.* 100%, PI, Southwest Parks and Monuments Association. \$7500, awarded 1999, completed.

*Natal dispersal in native western gray squirrels and introduced eastern gray squirrels.* 100%, PI, Murdock College Research Program for Life Sciences. \$36,000, awarded 1999, completed.

*Initiating a natural history collections database.* 100%, PI, Atkinson Award, Willamette University. \$4000, awarded 2000, completed after transfer to Dr. D. Craig, Willamette University.

*Status of the Chiricahua fox squirrel.* 100%, PI, Southwest Parks and Monuments Association, \$7500, awarded 1998, completed.

*Social ecology of a tropical carnivore in a xeric environment.* 100%, PI, National Geographic Society, \$15,000, awarded 1997, completed.

*Integrating Conservation Biology throughout the Curriculum.* 40%, Co-PI with S. Kephart (40%) and N. Perigo (20%). National Science Foundation-ILI (Co-PI). Instrumentation Grant, \$39,000, Awarded 1997, completed.

*Population ecology of coatis at Ft. Bowie National Historic Site.* 100%, PI, Southwest Parks and Monuments Association. \$7500, awarded 1997, completed.



A brief history. Chronology of education in QueenslandCurrently selected. Female teachers 1860-1983. Directors-General of Education 1876-present. Ministers for Education 1876-present. Education Act provided for free, secular and compulsory education in State schools and transferred all primary education in Queensland to the Department of Public Instruction responsible to a Minister for Education. The new Act provided for Classes 1 to 5 (approximately 8 years) in primary schools. Chronology of Employment University of Arizona 1987-date Associate Professor of English. 2001-2002 Faculty Associate to the Provost for Undergraduate Education. 1981-1987 Assistant Professor of English and Associate Director of Composition. 1978-1981 Visiting Assistant Professor of English. 1850-1877: Education: Chronology IMPORTANT EVENTS OF 1850-1877 Source for information on 1850-1877: Education: Chronology: American Eras dictionary. The American Association for the Advancement of Education calls upon the federal government to establish a separate department to oversee public education. 1855. The separate bill system for funding schools is abolished by law in New York. Data on the production of education shows that schooling tends to be largely financed with public resources across the globe, although a great deal of heterogeneity is observed between countries and world regions. Since differences in national expenditure on education do not explain well cross-country differences in learning outcomes, the data suggests that generic policies that increase expenditure on standard inputs, such as the number of teachers, are unlikely to be effective to improve education outcomes. Chronology of U.S. Education. 2/18/13 3:53 PM. very survival of the human race, world understanding, tolerance and forbearance have become absolutely essential. 1981. Professor Benjamin Bloom explained that the International Association for Evaluation of Educational Achievement (IAEEA ) "is an organization of 22 national research centers which are engaged in the study of education.