

CURRICULUM VITAE

John Lad Koprowski

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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*, 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*, 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

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, and advise undergraduate students. Direct University of Arizona's Mt. Graham Red Squirrel Monitoring Program. Taught courses in Natural Resource Ecology, Wildlife Management: Mammals, Small Mammal Conservation and Management, Applications of Behavioral Ecology to Conservation Biology, Biogeography and Conservation of the Sky Islands, Cultivating Diversity in the Natural Resources. Awarded tenure upon 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. Awarded tenure upon 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 21st 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, AGFD).

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:

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.
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 (1996-2002)
Willamette University Undergraduate Research Committee (Chair 1995-96)

Honors and Awards for Scholarship

National/International

- 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

University

- 2010 **A+ Advisor Award Finalist**
College of Agriculture and Life Sciences
- 2008 **Outstanding Mentor Finalist & Honorable Mention**
Undergraduate Biology Research Program
- 2007 **Outstanding Scholarly Publication**
School of Natural Resources, University of Arizona
- 2006 **O'Brien Diversity Award**
College of Agriculture and Life Sciences
Promotion to Professor
University of Arizona
- 2005 **Outstanding Faculty Member**
School of Natural Resources
- 2004 **Outstanding Team Award**
College of Agriculture and Life Sciences
- 2003 **Outstanding Faculty Member**
School of Renewable Natural Resources
Tenure granted
University of Arizona
- 2002 **Outstanding Scholarly Publication**
School of Renewable Natural Resources, Univ Arizona
for book titled "*North American Tree Squirrels*"
- 1994, 1996, 1999,2000 **Faculty Achievement Award for Scholarship and Teaching**
Willamette University (University-wide competitive Awards to <5% of 120 person faculty annually)
- 2000 **Faculty Study Time Award** (University-wide competitive for course release). Willamette University
- 1998 **Tenure granted**
Willamette University
- 1996 **Junior Sabbatical** (University-wide competitive award)

- 1991 Willamette University
Dorothy Haglund Outstanding Dissertation Award,
 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 **Graduate Teaching Assistant of the Year** (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, 1st & 2nd grade classes, Lyle Elementary, Dallas, OR
- 1996-2000 Endangered Species Project Panelist, Waldo Middle School, Salem, OR

Intramural Citizenship

School of Natural Resources Committees:

Faculty Status Committee, 2003 – 2006, 2008 - present; 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

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

Search Committees:

SNRE, Phenoclimatologist, 2009-present

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 to present.

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

Faculty Mentor for Arizona Scholars (1st 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, 2003

Mentor, Conservation Biology Internship Program, 2002-05

Mentor, Arizona Assurance Scholars Program, 2008 to present

Mentor, Undergraduate Biology Research Program, 7 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)

Reviewer for *Acta Oecologia* (1), *Acta Theriologica* (3), *African Journal of Ecology* (1), *American Midland Naturalist* (5), *Animal Behaviour* (11), *Behavioral Ecology and Sociobiology* (3), *Behavioral Ecology* (4), *Biodiversity and Conservation* (2), *Biological Conservation* (5), *Canadian Field-Naturalist* (2), *Current Science* (5), *Diversity and Distributions* (1), *Ecology* (3), *Environmental Conservation* (1), *Ethology* (3), *Forest Ecology and Management* (2), *Journal of Applied Ecology* (1), *Journal of College Science Teaching* (1), *Journal of Mammalogy* (22), *Journal of the Pennsylvania Academy of Sciences* (1), *Journal of Wildlife Management* (5), *Landscape Ecology* (1), *Landscape and Urban Planning* (2), *Mammalia* (3), *Mammalian Biology* (1), *Mammalian Species* (2), *Mongolian Journal of Biological Sciences* (2), National Science Foundation (6), NSERC (2), *Northeastern Naturalist* (1), *Oecologia* (1), *Prairie Naturalist* (2), *Revue d'écologie: la terre et la vie* (1), *Science* (2), *The Southwestern Naturalist* (5), *Tropical Zoology* (1), *Western North American Naturalist* (2), *Wildlife Monographs* (1), *Zoo Biology* (1),

Reviewer for 5 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
 Ricklefs, 2007 and 2011, *Economy of Nature*, Freeman

Session Chair, American Society of Mammalogists, 2002, 2004, 2006 Annual Conferences

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:

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, *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

2nd 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

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

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

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

6th International Colloquium on the Ecology of Arboreal Squirrels, Kyoto, Japan
 (2009 to present)

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	International Society for Behavioral Ecology
Sigma Xi, The Scientific Research Society	Society for Conservation Biology
Southwestern Association of Naturalists	The Wildlife Society
American Society of Mammalogists	Animal Behavior Society
Council on Undergraduate Research	

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. (50% of writing)

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. Accepted, copy editing underway.

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

Koprowski, JL. *Groundhog Day: A Day of Change*. In preparation for Johns Hopkins University 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, Grindler 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 Articles:

- 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: In press.
- Cudworth, N.L., J.L. Koprowski. 2011. Does scale matter? nest-site selection in Arizona gray squirrels. Journal of Wildlife Management 75: In press.
- Pasch, B.S., J.L. Koprowski. 2011. Impacts of fire suppression on space use of Mexican fox squirrels. Journal of Mammalogy 92: In press.
- Blount, S.J., J.L. Koprowski. 2011. Small mammal response to post-fire conditions: case of the endangered Mount Graham red squirrel. Southwestern Naturalist 56: In press.
- Cudworth, N.L., J.L. Koprowski. 2011. *Microtus californicus*. Mammalian Species, In press.
- Gwinn, R.N., G.H. Palmer, J.L. Koprowski. 2011. *Sigmodon arizonae*. Mammalian Species, In press.
- 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: In press.
- Munroe, K.E., J.L. Koprowski. 2011. Presence of copulatory plugs in round-tailed ground squirrels (*Xerospermophilus tereticaudus*). Southwestern Naturalist 56: In press.
- Ramos-Lara, N., J.L. Koprowski. 2011. Communal nesting behavior in Mearns's squirrels (*Tamiasciurus mearnsi*). Southwestern Naturalist 56: In press.
- 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, MC 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.
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Coates, C.A., J.L. Koprowski. Breeding birds associated with Black-tailed Prairie Dog (*Cynomys ludovicianus arizonensis*) habitat in Sonora, Mexico and potential habitat in southeastern Arizona. In review.

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Scholarly Presentations (Last 10 years):

Invited:

- 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. 4th 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
9th 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:

- 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

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- 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

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- 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. 5th European Mammal Congress, Siena, Italy.
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- 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.
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- Ecology and conservation of the endangered Mt. Graham Red Squirrel: a revised primer. 40th AZ-NM Chapters of The Wildlife Society, Albuquerque, NM.
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- 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
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- Resource reduction related to insect infestation: Are Mt. Graham red squirrels affected? (w/C. Zugmeyer). American Society of Mammalogists, Amherst, MA.
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- 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). 39th AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
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- Comparison of nest-site characteristics between endangered Mt. Graham red squirrels and Introduced Abert's squirrels (w/A.J. Edeman, S. Bertelsen). 39th AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
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- Impact of multiple insect outbreaks on Mt. Graham red squirrel habitat (w/A. Lynch, M. Alanen). 39th 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). 39th AZ-NM Chapter of The Wildlife Society, Flagstaff, AZ.
- 2005 Impacts of forest fragmentation on tree squirrels: a comparative approach. 9th 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.
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- 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).
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- 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)

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- 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, Grindler 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)
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- 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) 3rd 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). 3rd International
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International Conference on the Ecology of Tree Squirrels, University of Newcastle-
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University of Newcastle-upon-Tyne.
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- 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**
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Arizona-New Mexico Chapter, The Wildlife Society, Safford, AZ
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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. 2nd International Colloquium on the Ecology of Tree Squirrels, Sublimity, OR
- Sex differences in time and activity budgets in Chiricahua fox squirrels. 2nd 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). 2nd 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 (research budget). 2000 to present. (total funds to present, \$2,300,000)

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, \$64,000 (additional \$64,000 pledged). 2008 to present.

Effect of reintroduction of black-tailed prairie dogs on the grasslands in southeastern Arizona 100%, PI, Bureau of Land Management, \$33,000. 2008 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, \$18,000, 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:

Efficacy of reintroductions of black-tailed prairie dogs to Arizona. 100%, PI. Arizona Game and Fish Department, \$187,739. Submitted.

Assessing the success and spread of black-tailed prairie dog reintroductions. 100%, PI. Bureau of Land Management, \$15,337. Submitted.

Assessment and mitigation of road crossing by terrestrial vertebrates. 20%, Co-PI with M. Goode, P. Rosen, and M. Culver, Regional Arizona Department of Transportation, \$650,000. Submitted.

Source-sink dynamics in habitat isolates: tools for effective conservation strategies for at-risk species. 30%, Co-PI with M. Vander Haegen, J. Lawler, Department of Defense SERDP, \$2,115,000. Preproposal accepted, proposal positively reviewed and awaiting fund release.

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 in Ft. Bowie National Historic Site. 100%, PI, Southwest Parks and Monuments Association. \$7500, awarded 1997, completed.

Grants and contracts awarded total since 2000: >\$ 3.7 million