

CURRICULUM VITAE

JENNIFER K. FREY

BORN: 22 June 1964

MARRIED: 8 August 1997 to Timothy C. Frey

PRESENT ADDRESS:

Department of Fishery & Wildlife Sciences
New Mexico State University
P.O. Box 0003, MSC 4901
Las Cruces, New Mexico 88130

Phone: (575) 640-9782
Email: jfrey@nmsu.edu

Web: <http://cahe.nmsu.edu/academics/fws/faculty.html>

DEGREES:

Ph.D., Biology. University of New Mexico, Albuquerque, New Mexico. Major professor: Terry L. Yates. Dissertation title: Testing among modes of allopatric speciation: a hypothetico-deductive approach. 1994.

M.S., Biology. Emporia State University, Emporia, Kansas. Major professor: Dwight W. Moore. Thesis title: Morphologic variation in the Mexican vole (*Microtus mexicanus*). 1989.

B.S., Biology (emphasis in Zoology). Emporia State University, Emporia, Kansas. 1986.

CURRENT FACULTY POSITIONS:

College Assistant Professor and Member of the Graduate Faculty. Department of Fishery and Wildlife Sciences, New Mexico State University (NMSU). June 2002 - present.

Adjunct Assistant Professor and Member of the Graduate Faculty. Department of Biology, NMSU. June 2003-present.

PRIOR FACULTY POSITIONS:

Assistant Professor. Department of Biology, Eastern New Mexico University (ENMU). 1998-2002.

Research Assistant Professor. Department of Biology, University of New Mexico (UNM). 1995-1998.

Postdoctoral Research Associate. Department of Biology, UNM. 1994-1995.

CURRENT MUSEUM AND CURATORIAL POSITIONS:

- Curator.** Wildlife Museum, Department of Fishery and Wildlife Sciences, NMSU. September 2003 - present.
- Adjunct Curator of Mammals.** The Vertebrate Museum, Department of Biology, NMSU. 2003 – present.
- Executive Committee Member.** Center for Natural History Collections, New Mexico State University. Present
- Research Associate.** Mammal Division, Museum of Southwestern Biology (MSB), University of New Mexico. Present

PRIOR PROFESSIONAL MUSEUM AND CURATORIAL POSITIONS:

- Director.** Eastern New Mexico University Natural History Museum (ENMUNHM). 1998-2002
- Curator of Mammals, Birds, and Frozen Tissue.** ENMUNHM. 1998-2002
- Board of Trustees,** New Mexico Museum of Natural History and Science. 2000-2002
- Curatorial Associate.** Mammal Division, MSB, UNM. 1994-1998.

PRE-DOCTORAL MUSEUM POSITIONS:

- Collection Assistant.** Frozen Tissues & Biological Materials, MSB. 1990-1994.
- Curatorial Assistant.** Mammal Division, MSB. 1989-1994.
- Curatorial Assistant.** Schmidt Museum of Natural History, Emporia State University. 1985-1989

PRE-DOCTORAL PROFESSIONAL POSITIONS:

- Allozyme Electrophoresis Laboratory Supervisor.** UNM. 1991-1994.
- DNA and Karyology Laboratory Supervisor.** UNM. 1990, 1992-1994.
- Research Assistant.** UNM. Mitochondrial DNA and allozyme variation in the Mexican vole (*Microtus mexicanus*). 1992-1994.
- Research Assistantships for Minority High School Students Program Assistant.** MSB. Assisted directing student research projects and teaching high school students and teachers. 1993.
- Computer Lab Coordinator.** Biology Department. UNM. 1993.
- Research Assistant.** UNM. Mitochondrial DNA and allozyme variation among migratory races of sandhill crane (*Grus canadensis*). 1990-1991.
- Parasitologist.** Sevilleta Long-term Ecological Research Site, UNM. 1989.
- Fisheries Aid.** Kansas Department of Wildlife and Parks, Emporia, Kansas. 1988.
- Research Assistant.** Emporia State University. Karyotypic relationships among populations of short-tailed shrews (*Blarina*). 1987.
- Undergraduate Research Assistant.** Emporia State University. Predator avoidance in *Diaptomus* (Crustacea: Copepoda). 1985-1986.

COMPLETED GRADUATE STUDENTS:

- Ms. Beth Bonham. Master's in Environmental Education. Eastern New Mexico University. May 2000.
- Mr. Andrew Hope. Master's thesis title: Island biogeography: Focal species models and their implications for system level relationships. Eastern New Mexico University. May 2002.
- Mr. Jason Malaney. Master's thesis title: Distribution, habitat characteristics, and population demographics of snowshoe hare (*Lepus americanus*) at the extreme southern edge of its geographic range. Eastern New Mexico University. December 2003.
- Ms. Christina Wampler. Master's thesis title: Effects of fuels reduction treatments on mammals in a southwestern mixed coniferous forest. (collaboratively with Jon Boren). May 2007.

CURRENT GRADUATE STUDENTS:

- Mr. Alfredo Montoya. Master's research project topic: Morphologic variation in the gray-footed chipmunk (*Tamias canipes*). Expected May 2008
- Mr. Gerrad Jones. Master's thesis topic: Mammals of Padre Island National Seashore, Texas. Expected May 2008.
- Mr. Martin Moses. Master's thesis topic: A spatially explicit metapopulation model of banner-tailed kangaroo rats to prioritize areas for desert grassland conservation. (co-advised with Gary Roemer). Expected December 2009.

GRADUATE COMMITTEES:

- Mr. Stanley Fields. Master's thesis title: Ability of western diamondback rattlesnake (*Crotalus atrox*) and prairie rattlesnake (*Crotalus viridis viridis*) to discern the presence of a potential predator based on chemical cues. ENMU. December 2001
- Mr. Timothy Frey. Non-thesis Master's: Applied Ecology. ENMU. May 2002
- Ms. Verity Mathis. Master's thesis title: Conservation genetics of banner-tailed kangaroo rats (*Dipodomys spectabilis*): a molecular ecology perspective. New Mexico State University. Summer 2006.
- Ms. Arlys Finch. Master's thesis topic. Sequencing of Star protein in the endangered Pecos gambusia. Eastern New Mexico University. December 2006.
- Ms. Dolly Crawford. Master's thesis topic. Phylogeography of the long-tailed vole: evidence from molecular data and coalescence theory. University of New Mexico. Expected May 2009.

TEACHING EXPERIENCE:

New Mexico State University

Undergraduate:

Introduction to Natural Resources Management; a distance education course
(Spring 2003-Fall 2004, Fall 2005-Spring 2008)
Museum Methods (Spring 2006)
Undergraduate Problems (3 enrollments for 8 credit hours total)

Undergraduate/Graduate:

Systems Ecology in Wildlife Management and Laboratory (Fall 2002)
Advanced Techniques for the Study of Mammalian Diversity (Spring 2004)
Nongame Wildlife Conservation and Management (Spring 2004)
Graduate Problems (12 enrollments for 24 credit hours total)
Nonthesis Project (2 enrollments for 3 credit hours total)
Master's thesis (4 enrollments for 27 credit hours total)

Eastern New Mexico University (exclusive of special problems, thesis, etc)

Undergraduate:

Wildlife Biology (Fall 1998, Spring 1999)
Introduction to Wildlife and Fisheries Science (each semester 1999-2002)
Vertebrate Zoology/Vertebrate Zoology Laboratory (Spring 2002)

Undergraduate/Graduate:

Mammalogy/Mammalogy Laboratory (annual 1998-2001)
Ornithology/Ornithology Laboratory (annual 1999-2002)
Wildlife Management/ Wildlife Management Laboratory (annual 1998-2001)

Graduate:

Biogeography (Spring 1999, Fall 2000)
Conservation Biology (Fall 1999, 2001)
Biological Literature (Fall 2001)

University of New Mexico (exclusive of special problems, thesis, etc)

Mammalogy, lecturer and laboratory assistant
General Biology Laboratory, instructor
Biology for Health Related Sciences Laboratory, instructor

Emporia State University

Ornithology, teaching and laboratory assistant
General Biology Laboratory, instructor
Field and Lab Biology, teaching and laboratory assistant

UNIVERSITY SERVICE (partial listing of service at NMSU)

- College of Agriculture and Home Economics, Distance Education Committee
- NMSU, Center for Natural History Collections, Executive Committee
- Dept. Fishery & Wildlife Sciences, Graduate Committee
- Dept. Fishery & Wildlife Sciences, Curator of Vertebrate Wildlife Museum
- Dept. Biology, Adjunct Curator of Vertebrate Museum Mammal Division
- Dept. Fishery & Wildlife Sciences, Freshman advisor

PRIOR UNIVERSITY SERVICE (Partial Listing):

- Director of the Natural History Museum, ENMU
- Revised Wildlife and Fishery undergraduate curriculum, ENMU
- Developed graduate program in Applied Ecology, ENMU
- Faculty advisor to pre-professional Fish and Wildlife Club, ENMU
- Numerous faculty search committees, ENMU
- President - Biology Graduate Student Association, UNM.
- Graduate Policy Committee, Department of Biology, UNM.
- Graduate Research Allocations Committee, Dept. Biology, UNM.

CURRENT PROFESSIONAL SERVICE:

- Board of Directors, New Mexico Chapter of the Wildlife Society
- Conservation Committee, Southwestern Association of Naturalists
- Share With Wildlife Task Force, New Mexico Department of Game and Fish
- New Mexico Bat Working Group
- New Mexico River Otter Scientific Advisory Group
- Forest Service Region 3 Mammal Sensitive Species Experts Group
- Recent Peer Reviewer for: National Science Foundation, Journal of Mammalogy, Southwestern Naturalist, Texas Journal of Science, Prairie Naturalist, Diversity and Distributions,

PRIOR PROFESSIONAL SERVICE (Partial Listing):

- Board of Trustees, New Mexico Museum of Natural History and Science.
- IUCN, Species Survival Commission, Rodent Specialist Group for North America.
- Board of Directors, Southwestern Association of Naturalists.
- Chair, Conservation Committee, Southwestern Association of Naturalists.
- Resolutions Committee, American Society of Mammalogists.
- Education and Graduate Student Committee, American Society of Mammalogists.
- Committee on Women and Minority Issues, American Society of Mammalogists.
- John Wesley Powell Memorial Lecture Committee, Southwestern and Rocky Mountain Division, American Association for the Advancement of Science.
- Secretary - Zoology Section, Southwestern and Rocky Mountain Division, AAAS.

PROFESSIONAL SOCIETY AFFILIATIONS:

- International Biogeography Society
- American Society of Mammalogists
- Society for Conservation Biology
- The Wildlife Society
 - Southwest Section
 - New Mexico Chapter (elected to Board of Directors)
- Southwestern Association of Naturalists
 - Conservation Committee
- Texas Society of Mammalogists

HONORS AND AWARDS:

Faculty Merit Award. For excellence in teaching, scholarship and service. Eastern New Mexico University. 2001

James H. Nakano Citation Award. For the outstanding scientific paper published in 1994. National Center for Infectious Diseases and Centers for Disease Control and Prevention, 1995.

Albert R. and Alma E. Shadle Fellowship in Mammalogy. The highest annual award given to a single graduate student or recent PhD graduate who has demonstrated a productive and important role in professional mammalogy. American Society of Mammalogists and the Buffalo Foundation, 1992.

University of New Mexico Graduate Achievement Award. Award presented to the two most outstanding graduate students at the University of New Mexico, 1991.

Robert I. Larus Award. For the outstanding student paper presented in 1990. American Association for the Advancement of Science, 1990.

Outstanding Presentation Award. For an outstanding graduate student research paper competition. Southwestern and Rocky Mountain Division, American Association for the Advancement of Science, 1988.

Emporia State University Graduate Achievement Award. Award presented to the outstanding graduate student at Emporia State University, 1987, 1988.

GRANTS AND CONTRACTS (Total = \$ 1,478,118⁰⁰):

\$ 2,500 – New Mexico State Parks. Mammals of Sugarite Canyon State Park. 2007

\$ 24,000 – New Mexico Department of Game and Fish, Share with Wildlife.
Morphological and genetic analysis of *Zapus hudsonius luteus*. 2007

\$ 5,900 – New Mexico Department of Game and Fish. Key to the Rodentia of New Mexico. 2007

\$ 26,460 – New Mexico Department of Game and Fish. Status of the Peñasco least chipmunk. 2006

\$ 26,037 – Lincoln National Forest. Population assessment of the red squirrel. 2006

\$ 700 – Society for Conservation Biology. Peer-review of US Forest Service species assessments for the hog-nosed skunk and pygmy shrew. 2006

\$ 5,250 - Santa Fe National Forest, Jemez Ranger District. Inventory for the meadow jumping mouse. 2006

\$ 29,820 – New Mexico Department of Game and Fish. Status of the meadow jumping mouse in the Sangre de Cristo Mountains. 2006

\$ 2,000 – New Mexico State Parks. Status of the meadow jumping mouse at Sugarite Canyon State Park. 2006.

\$ 20,053 – Carson National Forest. Abert's squirrel monitoring, 2006. 2006

\$ 5,900 - New Mexico Share with Wildlife: Key to the Rodentia of New Mexico, Part II. 2005-2006.

\$ 10,000 – Desert Southwest Cooperative Ecosystem Studies Unit. Literature review on mammalian carnivore use on islands, coyote telemetry methodology, and biology of islands in the Laguna Madre. (with D. Echols, Padre Island National Seashore). 2006

\$ 18,651 – New Mexico Department of Game and Fish. Status survey of the least shrew (*Cryptotis parva*). 2005

\$ 19,819 – New Mexico Department of Game and Fish. Status survey of the meadow jumping mouse (*Zapus hudsonius*). 2005

\$ 15,564 – Carson National Forest. Abert's squirrel monitoring, 2005. 2005

\$ 100,000 – International Arid Lands Consortium: Keystone indicator: a tool for semi-desert grassland conservation. (with Gary Roemer and Eli Geffen). 2005-2007

GRANTS AND CONTRACTS (continued):

\$ 160,636 – National Parks Service: Mammal inventory of Padre Island National Seashore. 2004-2007

\$ 10,352 - National Park Service: Data mining and data entry for Vital Signs Monitoring Plan. (with Don Caccamise). 2004-2005

\$ 17,729 – New Mexico Department of Game and Fish. Status of the endangered Arizona montane vole (*Microtus montanus arizonensis*) in New Mexico. 2004

\$ 7,500 – New Mexico Share with Wildlife: Key to the Rodentia of New Mexico. 2004-2005.

\$ 10,000 – New Mexico Share with Wildlife: Habitat and diet of the threatened New Mexico meadow jumping mouse (*Zapus hudsonius luteus*): a spatial and temporal assessment". (with K. Mohrland and D. Jones). 2004-2205

\$ 26,000 – Carson National Forest. Red squirrel and Abert's squirrel monitoring. 2004.

\$ 46,570 – Carson National Forest. Red squirrel and Abert's squirrel monitoring; small mammal surveys. 2003.

\$ 8,998 – BAE Systems Analytical Solutions, Inc. White Sands Missile Range small mammal voucher specimen preparation and identification. 2003-2005.

\$ 98,000 – National Science Foundation. Center for Natural Resource Analysis within New Mexico Experimental Program to Stimulate Competitive Research (EPSCoR). (J.R. Gosz, A.W. Powell, et al.). I was the PI for the ENMU portion of \$ 3 million total award. 2002.

\$ 3,335 - ENMU Research and Faculty Development Committee: Ecological segregation of the mountain cottontail (*Sylvilagus nuttallii*) and the snowshoe hare (*Lepus americanus*). 2001.

\$ 563,389 – Grand Canyon Monitoring and Research Center, USGS: Inventory and monitoring of terrestrial riparian biological resources in Grand Canyon: an integrative approach. (with M.J.C. Kersley, H. Yard, N. Cobb, D.C. Lightfoot, G. Carpenter, and S.L. Brantley). 2001

\$ 7,500 – USDA Forest Service: Expert's Panel on Grazing Impacts on Southwestern Mammals. 2001

GRANTS AND CONTRACTS (continued):

- \$ 2,000 - New Mexico Natural Heritage Program: White Sands Missile Range Integrated Natural Resources Management Plan: Mammals. 2000-2001.
- \$ 4,979 – Lincoln National Forest, USDA Forest Service and ENMU Research and Faculty Development Committee: Status of the endangered Peñasco least chipmunk (*Tamias minimus atristriatus*). 2000.
- \$ 17,000 - New Mexico State Land Office: Geospatially referenced database for sensitive mammal, bird, and plant voucher specimens in the ENMU Natural History Museum. 1999-2000.
- \$ 5,500 - New Mexico Department of Game and Fish: Lesser prairie chicken lek surveys. 1999-2001.
- \$ 1,991 - ENMU Teaching and Technology Instruction: Radiotelemetry equipment and photographic slides of birds and mammals for classroom instruction. 1999.
- \$ 15,000 - U.S. Forest Service, in collaboration with the New Mexico Department of Game and Fish. for Relationships among Southwest mammals and GAP vegetation types for the Biotic Information System of New Mexico (BISON-M). 1998.
- \$ 9,981 - Turner Biodiversity Division: Mammal survey of the Fra Cristobal Mountains, Armendariz Ranch, Sierra County, New Mexico. 1998.
- \$ 49,249 - Animas Foundation: Effects of reintroduced black-tailed prairie dogs on grassland ecology. (with C. Curtin, D. Lightfoot, G. Carpenter, and A. Henry). 1998.
- \$ 3,262 - ENMU Research and Faculty Development Committee: Distribution and habitat preference of white-tailed deer in New Mexico. 1998.
- \$ 3,000 - Ski Island Alliance, The Wildlands Project: Data compilation of focal species. 1997.
- \$ 17,500 - U.S. Geological Survey, Biological Resources Division: Response of southwestern montane mammal communities to global change. (with T. L. Yates) 1997.
- \$ 27,180 - National Science Foundation: Joint U.S.-Mexico Workshop on International Ecology and Biodiversity. (with T. L. Yates and G. Ceballos) 1996.
- \$ 11,986 - U.S. Forest Service: Mammal survey of the Negrito Creek watershed, Gila National Forest, Catron Co., New Mexico. 1995.

GRANTS AND CONTRACTS (continued):

\$ 12,700 - Arizona Game and Fish Department: Mexican vole (*Microtus mexicanus*) genetic analyses. 1992, 1993.

\$ 2,000 - Albuquerque Community Foundation: Wildlife Rescue, Inc. of New Mexico, (with Francisca C. Bermudez and Elizabeth P. Elliston). 1993.

\$ 900 - Sigma Xi; Biology, UNM; GSA, UNM: Dispersal versus vicariance in southwest montane mammals: genetics of long-tailed vole populations. 1991.

\$ 19,500 - New Mexico Game and Fish Department: Allozyme and mtDNA restriction site variation in sandhill crane (*Grus canadensis*). (with T. L. Yates). 1991.

\$ 500 - GRAC; SRAC; Vice President's Graduate Research Fund, Office of Research, UNM: Historical Biogeography of the Mexican Vole (*Microtus mexicanus*). 1990.

\$ 1,226 - Kansas Department of Wildlife and Parks. For Distribution and habitat analysis of the long-tailed shrew in Kansas. (with D. W. Moore). 1987.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

1. **Frey, J. K.** 1987. Nongeographic variation in the Mexican vole (*Microtus mexicanus*). Kansas Academy of Science.
2. **Frey, J. K.**, and D. W. Moore. 1988. Distribution of *Sorex haydeni* in Kansas. Southwestern and Rocky Mountain Division, American Association for the Advancement of Science. (*winner Outstanding Presentation Award)
3. **Frey, J. K.** 1988. Distribution of Hayden's shrew (*Sorex haydeni*) in Kansas. Kansas Academy of Science.
4. **Frey, J. K.**, and D. W. Moore. 1988. Morphologic variation and systematics of the Mexican vole (*Microtus mexicanus*). Southwestern Association of Naturalists.
5. **Frey, J. K.**, and D. W. Moore. 1988. Distribution of *Sorex haydeni* in Kansas. Prairie States Ecology Conclave.
6. **Frey, J. K.**, and D. W. Moore. 1988. Morphologic variation and systematics of the Mexican vole (*Microtus mexicanus*). American Society of Mammalogists.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

7. **Frey, J. K.**, and D. W. Moore. 1989. Geographic variation in the Mexican vole (*Microtus mexicanus*). Southwestern and Rocky Mountain Division, American Association for the Advancement of Science.
8. Moore, D. W., G. Ploskey, and **J. K. Frey**. 1989. Identification of hybrids between sauger and walleye. Southwestern Association of Naturalists.
9. **Frey, J. K.** 1990. Fluctuation of a mammalian faunal element in response to climatic change. Southwestern Association of Naturalists.
10. **Frey, J. K.** 1990. Fluctuation of a mammalian faunal element in response to climatic factors. Southwestern and Rocky Mountain Division, American Association for the Advancement of Science. (*winner Robert I. Larus Award-best paper)
11. **Frey, J. K.** 1990. Fluctuation of a mammalian faunal element in response to climatic change. American Society of Mammalogists.
12. **Frey, J. K.**, and D. W. Moore. 1990. Range expansion of the meadow vole (*Microtus pennsylvanicus*) in Kansas. Kansas Mammalogists.
13. **Frey, J. K.** 1991. Response of a mammalian faunal element to climatic change. American Association for the Advancement of Science. (*invited paper)
14. Gannon, W. L., P. J. Glass, **J. K. Frey**, and T. L. Yates. 1991. Information retrieval of biological materials at the Museum of Southwestern Biology. American Society of Mammalogists.
15. **Frey, J. K.** 1992. Evolutionary consequences of modes of peripheral isolate formation under alternative modes of speciation and speciation in frogs of the subgenus *Stombus* (Leptodactylidae: genus *Ceratophrys*). Southwestern Association of Naturalists.
16. **Frey, J. K.** 1992. Evolutionary consequences of modes of peripheral isolate formation under alternative modes of speciation. American Society of Mammalogists.
17. **Frey, J. K.** 1993. Testing among modes of allopatric speciation: A hypothetico-deductive approach. American Society of Mammalogists. (*invited paper in the plenary session)

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

18. **Frey, J. K.**, D. J. Hafner, T. L. Yates, and C. G. Schmitt. 1994. Allozyme and mitochondrial DNA variation in migratory sandhill crane (*Grus canadensis*). Southwestern Association of Naturalists.
19. Bermudez, F. C., and **J. K. Frey**. 1994. Value and potential of wildlife rehabilitation to the zoological sciences. Southwestern Association of Naturalists.
20. **Frey, J. K.**, and M. J. Patrick. 1994. Endoparasites from the endangered Hualapai vole (*Microtus mogollonensis hualpaiensis*). American Society of Mammalogists.
21. Ditto, A. M. and **J. K. Frey**. 1995. Species diversity and the peninsular effect: non-volant mammals in Chihuahuan Desert habitat peninsulas. Southwestern Association of Naturalists.
22. **Frey, J. K.** 1995. Homage to Darwin: On the evolution of domestic breeds of standard chickens. Southwestern Association of Naturalists.
23. **Frey, J. K.** 1996. Assessing distribution patterns and predicting climate induced extinctions in southwestern montane mammals. Southwestern Association of Naturalists.
24. Ditto, A. M. and **J. K. Frey**. 1997. Effects of island attributes on genetic variability in southwestern montane mammals. Southwestern Association of Naturalists.
25. **Frey, J. K.** 1997. A climate induced pump for increased genetic variability in a peripheral isolate of the montane vole? Southwestern Association of Naturalists.
26. Ditto, A. M. and **J. K. Frey**. 1997. Effects of island attributes on genetic variability in southwestern montane mammals. American Society of Mammalogists.
27. **Frey, J.K.** 1998. Conservation considerations for the reintroduction of grizzly bears and wolves in the Southwest. Southwestern Association of Naturalists.
28. Fields, S.P., and **J.K. Frey**. 2000. Squamate reptiles in New Mexico: patterns of species richness and provincialism. Southwestern Association of Naturalists.
29. Kendall, J., and **J.K. Frey**. 2000. Hierarchical relationships of bat communities in Arizona, New Mexico, Utah and Colorado. Southwestern Association of Naturalists.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

30. Frey, T.C. and **J.K. Frey**. 2000. Railroads: an alternative mechanism for mesquite invasion in the Southwest. Southwestern Association of Naturalists.
31. Hope, A., and **J.K. Frey**. 2000. Biogeographic models of the distribution of Canadian lynx (*Lynx canadensis*) in the western United States with implications for reintroduction and conservation. Southwestern Association of Naturalists.
32. Edgmon, M.G, L. Castillo, and **J.K. Frey**. 2000. Diversity of avian populations in CRP and native grasslands on the Llano Estacado in the Texas Panhandle. Southwestern Association of Naturalists.
33. Hope, A., and **J.K. Frey**. 2001. Biogeographic models of the distribution of Canadian lynx (*Lynx canadensis*) in the western United States with implications for reintroduction and conservation. Joint Arizona-New Mexico Chapters of The Wildlife Society.
34. Kendall, J., and **J.K. Frey**. 2001. Management implications of hierarchical relationships of southwestern bat communities based on Bailey's ecoregions. Joint Arizona-New Mexico Chapters of The Wildlife Society.
35. Hope, A., and **J.K. Frey**. 2001. Biogeographic nestedness and conservation of boreal mammals in the western contiguous United States. Southwestern Association of Naturalists.
(*winner Clark Hubbs Award-best poster presentation)
36. Hope, A. and **J.K. Frey**. 2001. Biogeographic nestedness and conservation of boreal mammals in the western contiguous United States. American Society of Mammalogists.
37. Malaney, J. and **J.K. Frey**. 2002. Habitat differentiation between snowshoe hare (*Lepus americanus*) and mountain cottontail (*Sylvilagus nuttallii*) in New Mexico. Joint Arizona-New Mexico Chapters of The Wildlife Society.
38. Malaney, J. and **J.K. Frey**. 2003. Snowshoe hare (*Lepus americanus*) population parameters and habitat preferences in New Mexico. Joint Arizona-New Mexico Chapters of The Wildlife Society.
39. Malaney, J. and **J.K. Frey**. 2003. Primary productivity and habitat quality hypotheses for control of snowshoe hare (*Lepus americanus*) demography: a test at the southern range limit and conclusions for conservation. Southwestern Association of Naturalists.
(*winner Clark Hubbs Award-best poster presentation)

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

40. Malaney, J. and **J.K. Frey**. 2003. Primary productivity and habitat quality hypotheses for control of snowshoe hare (*Lepus americanus*) demography: a test at the southern range limit and conclusions for conservation. American Society of Mammalogists.
41. **Frey, J.K.** 2003. Vicariance, not dispersal, is the primary mechanism for the distribution of boreal mammals in the American Southwest. American Society of Mammalogists.
42. Kearsley, M., N. Cobb, H. Yard, D. Lightfoot, G. Carpenter, S. Brantley, and **J.K. Frey**. 2003. Inventory and monitoring of terrestrial riparian biological resources in Grand Canyon: an integrative approach. Ecological Society of America.
43. Malaney, J. and **J.K. Frey**. 2004. Habitat differentiation between snowshoe hare (*Lepus americanus*) and mountain cottontail (*Sylvilagus nuttallii*) at their southern zone of sympatry. Southwestern Association of Naturalists.
(*winner Clark Hubbs Award-best poster presentation)
44. Mathis, V.L. and **J.K. Frey**. 2005. Geographic variation in relictual populations of red squirrel (*Tamiasciurus hudsonicus*) in the American Southwest. Southwestern Association of Naturalists.
45. Malaney, J. and **J.K. Frey**. 2006. Decline of montane populations of the threatened meadow jumping mouse (*Zapus hudsonius luteus*) in New Mexico. Arizona and New Mexico Chapters of The Wildlife Society.
46. Wampler, C.R, **J.K. Frey** and J. Boren. 2006. Effects of silvicultural treatments on the small mammal community in a southwest coniferous forest. Arizona and New Mexico Chapters of The Wildlife Society.
47. Jones, G.D., K.M. Otten, C. R. Wampler, Z. Schwenke, and **J. K. Frey**. 2006. Status and habitats of the threatened least shrew (*Cryptotis parva*) in New Mexico. Arizona and New Mexico Chapters of The Wildlife Society.
48. Wampler, C.R, **J.K. Frey** and J. Boren. 2006. Effects of silvicultural treatments on the small mammal community in a southwest coniferous forest. The Southwestern Association of Naturalists.
49. Montoya, A. and **J.K. Frey**. 2007. Geographic variation and taxonomy of the gray-footed chipmunk (*Tamias canipes*). The Southwestern Association of Naturalists (Abstract submitted).

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

50. Wampler, C.R, **J.K. Frey** and J. Boren. 2007. Effects of fuels reduction thinning on the small mammal community in a southwest coniferous forest. The Southwestern Association of Naturalists.
51. Jones, G., and **J.K. Frey**. 2007. An enigma of the species-area relationship: small island effect on coastal Texas islands. American Society of Mammalogists.
52. **Frey, J.K.**, J.L. Malaney, Z. J. Schwenke, and J.A. Cook. 2007. The New Mexico meadow jumping mouse (*Zapus hudsonius luteus*): a declining riparian indicator species. American Society of Mammalogists.

SELECTED RECENT TECHNICAL REPORTS:

1. Frey, J.K. 2003. Baseline inventory of small mammal prey-base communities on Carson National Forest, New Mexico. Final Report submitted to Carson National Forest, 48 pp.
2. Frey, J.K. 2003. Preliminary investigation of the relationship between montane meadow stubble height and small mammal communities on Cason National Forest, New Mexico. Final Report submitted to Carson National Forest, 14 pp.
3. Frey, J.K. 2003. Initiation of Abert's squirrel (*Sciurus aberti*) monitoring on Carson National Forest, New Mexico. Final Report submitted to Carson National Forest, 18 pp.
4. Frey, J.K. 2003. Initiation of red squirrel (*Tamiasciurus hudsonicus*) monitoring on Carson National Forest, New Mexico. Final Report submitted to Carson National Forest. 38 pp.
5. Frey, J.K. 2004. Abert's squirrel (*Sciurus aberti*) monitoring and habitat analysis on Carson National Forest, New Mexico, 2004. Final Report submitted to Carson National Forest, 21 pp.
6. Frey, J.K. 2004. Red squirrel (*Tamiasciurus hudsonicus*) monitoring and habitat analysis on Carson National Forest, New Mexico, 2004. Final Report submitted to Carson National Forest, 45 pp.
7. Frey, J.K. 2005. Status assessment of the Arizona montane vole (*Microtus montanus arizonensis*) in New Mexico. Final Report submitted to New Mexico Department of Game and Fish, 39 pp.
8. Frey, J.K. 2005. Keys to the squirrels, pocket gophers, New World rats and mice, voles, and jumping mice of New Mexico. Final report submitted to New

Mexico Department of Game and Fish, 75 pp.

SELECTED RECENT TECHNICAL REPORTS (continued):

9. Frey, J.K. 2005. Abert's squirrel (*Sciurus aberti*) monitoring on Carson National Forest, New Mexico, 2005. Final Report submitted to Carson National Forest, 32 pp.
10. Frey, J.K. 2005. Status and habitat of the least shrew (*Cryptotis parva*) in New Mexico. Final Report submitted to New Mexico Department of Game and Fish, 40 pp.
11. Frey, J.K. 2005. Status assessment of montane populations of the New Mexico meadow jumping mouse (*Zapus hudsonius luteus*) in New Mexico. Final Report submitted to New Mexico Department of Game and Fish, 74 pp.
12. Kearsley, M., D. Lightfoot, S. Brantley, **J.K. Frey**, and H. Yard. 2006. Introduction. Pages 4-31 in M. Kearsley, N. Cobb, H. Yard, D. Lightfoot, G. Carpenter, S. Brantley, and **J.K. Frey**. Inventory and monitoring of terrestrial riparian resources in the Colorado River corridor of Grand Canyon: an integrative approach. Final report submitted to USGS Grand Canyon monitoring and research Center, 317 pp.
13. **Frey, J.K.** 2006. Mammals. Pages 154-177 in M. Kearsley, N. Cobb, H. yard, D. Lightfoot, G. Carpenter, S. Brantley, and **J.K. Frey**. Inventory and monitoring of terrestrial riparian resources in the Colorado River corridor of Grand Canyon: an integrative approach. Final report submitted to USGS Grand Canyon monitoring and research Center, 317 pp.
14. Frey, J.K. 2006. Abert's squirrel (*Sciurus aberti*) monitoring on Carson National Forest, New Mexico, 2006. Final Report submitted to Carson National Forest, 41 pp.
15. Frey, J.K. 2006. Status of the New Mexico meadow jumping mouse (*Zapus hudsonius luteus*) in the Sangre de Cristo Mountains, New Mexico, Final Report submitted to New Mexico Department of Game and Fish, 78 pp.
16. Frey, J.K. 2007. Survey for the New Mexico meadow jumping mouse (*Zapus hudsonius luteus*) at selected locations in the Jemez Ranger District, Santa Fe National Forest, Final Report submitted to Jemez Ranger District, Santa Fe National Forest, 28 pp.
17. Frey, J.K. 2007. Density and habitat of red squirrel (*Tamiasciurus hudsonicus*) in five study areas on Lincoln National Forest New Mexico. Final Report submitted to Lincoln National Forest, 54 pp.

SELECTED RECENT TECHNICAL REPORTS (continued):

18. Frey, J.K. 2007. Key to the Rodents of New Mexico. Final Report submitted to New Mexico Department of Game and Fish, 120 pp.
19. Frey, J.K. and K. Boykin. 2007. Status assessment of the Peñasco least chipmunk (*Tamias minimus atristriatus*). Final Report submitted to New Mexico Department of Game and Fish, 72 pp.
20. Frey, J.K. and Z. J. Schwenke. 2007. Mammals of Sugarite Canyon State Park, Colfax County, New Mexico. Final Report submitted to New Mexico State Parks, 49 pp.

PUBLICATIONS:

1. Prophet, C. W., and **J. K. Frey**. 1987. Capture of *Diaptomus siciloides* and *Diaptomus pallidus* by suction simulator and gizzard shad (*Dorosoma cepedianum*). *Journal of Freshwater Ecology*, 4:253-258.
2. Tims, T. A., **J. K. Frey**, T. A. Spradling, and D. W. Moore. 1989. A new locality for the pygmy shrew (*Sorex hoyi winnemana*) in Tennessee. *Journal of the Tennessee Academy of Science*, 64:240.
3. **Frey, J. K.**, and D. W. Moore. 1990. Status of Hayden's shrew (*Sorex haydeni*) in Kansas. *Southwestern Naturalist*, 35:84-86.
4. **Frey, J. K.**, and D. W. Moore. 1990. Nongeographic morphologic variation in the Mexican vole (*Microtus mexicanus*). *Transactions of the Kansas Academy of Sciences*, 93:97-109.
5. **Frey, J. K.**, and D. W. Moore. 1990. Range expansion of the meadow vole (*Microtus pennsylvanicus*) in Kansas. *Prairie Naturalist*, 22:259-263.
6. Choate, J. R., D. W. Moore, and **J. K. Frey**. 1991. Dispersal of the meadow jumping mouse in northern Kansas. *Prairie Naturalist*, 23:127-130.
7. **Frey, J. K.** 1992. Response of a mammalian faunal element to climatic changes. *Journal of Mammalogy*, 73:43-50.
8. **Frey, J. K.**, T. L. Yates, D. W. Duszynski, W. L. Gannon, and S. L. Gardner. 1992. Designation and curatorial management of type host specimens (sybiontypes) for new parasite taxa. *Journal of Parasitology*, 78:930-932.
9. **Frey, J. K.** 1993. Modes of peripheral isolate formation and speciation.

Systematic Biology, 42:373-381.

PUBLICATIONS (continued):

10. **Frey, J. K.**, and C. T. LaRue. 1993. Notes on the distribution of the Mogollon vole (*Microtus mogollonensis*) in Arizona and New Mexico. Southwestern Naturalist, 38:176-178.
 11. **Frey, J. K.** 1993. Nocturnal foraging by scissor-tailed flycatchers under artificial light. Western Birds, 24:200.
 12. **Frey, J. K.**, and F. C. Bermudez. 1994. Cordilleran flycatchers nesting within a cave. New Mexico Ornithological Society Bulletin, 22:23-24.
 13. Childs, J. E., T. G. Ksiazek, C. F. Spiropoulou, J. W. Krebs, S. Morzunov, G. O. Maupi, K. L. Gage, P. E. Rollin, J. Sarisky, R. E. Enscoe, **J. K. Frey**, C. J. Peters, and S. T. Nichol. 1994. Serologic and genetic identification of *Peromyscus maniculatus* as the primary reservoir for a new hantavirus in the southwestern United States. Journal of Infectious Disease, 169:2171-2180.
- (*Charles C. Shepard Science Award and *James H. Nakano Citation candidate)
14. Bermudez, F. C., J. N. Stuart, **J. K. Frey**, and R. Valdez. 1995. Distribution and status of the Virginia opossum (*Didelphis virginiana*) in New Mexico. Southwestern Naturalist, 40:336-340.
 15. **Frey, J. K.**, and M. J. Patrick. 1995. Endoparasites from the endangered Hualapai vole, *Microtus mogollonensis hualpaiensis* (Rodentia: Cricetidae). Journal of Parasitology, 81:641-643.
 16. **Frey, J. K.**, J. H. Fraga, and F. C. Bermudez. 1995. A new locality of the montane vole (*Microtus montanus arizonensis*) in New Mexico. Southwestern Naturalist, 40:421-422.
 17. **Frey, J. K.** 1996. Rock Rattlesnake (*Crotalus lepidus*). Aquatic Behavior. Herpetological Review, 27:145.
 18. **Frey, J. K.** 1996. Mammalian type localities in New Mexico. Occasional Papers of the Museum of Southwestern Biology, 7:1-25.
 19. **Frey, J. K.**, and T. L. Yates. 1996. Mammalian diversity in New Mexico. in New Mexico's Natural Heritage: Biological Diversity in the Land of Enchantment (E.A. Herrera and L.F. Henneke, eds.). New Mexico Journal of Science, 36:4-37.
 20. **Frey, J. K.**, and F. A. Cervantes. 1997. *Microtus umbrosus*. Mammalian Species, 555:1-3.

PUBLICATIONS (continued):

21. **Frey, J. K.**, and F. A. Cervantes. 1997. *Microtus oaxacensis*. Mammalian Species, 556:1-3.
22. **Frey, J. K.**, and M. L. Campbell. 1997. Introduced population of fox squirrel (*Sciurus niger*) in Trans-Pecos and Llano Estacado regions of New Mexico and Texas. Southwestern Naturalist, 42:356-358.
23. **Frey, J. K.**, R. D. Fischer, and L. A. Ruedas. 1997. The type locality of *Sylvilagus cognatus* Nelson 1907 (Lagomorpha: Leporidae). Proceedings of the Biological Society of Washington, 110:329-331.
24. **Frey, J. K.** 1999. Osgood's mouse / *Peromyscus gratus*. Pp. 570-571, in The Smithsonian Book of North American Mammals (D. E. Wilson and S. Ruff, eds.). Smithsonian Institution Press, Washington, D.C., 750 pp.
25. **Frey, J. K.** 1999. Mogollon vole / *Microtus mogollonensis*. Pp. 634-634 in The Smithsonian Book of North American Mammals (D. E. Wilson and S. Ruff, eds.). Smithsonian Institution Press, Washington, D.C. 750 pp.
26. **Frey, J.K.**, J.J. Root, C.A. Jones, C.H. Calisher, and B. J. Beaty. 2002. New records of the Mogollon vole, *Microtus mogollonensis* (Mearns 1890), in southwestern Colorado. Western North American Naturalist, 62:120-123.
27. **Frey, J.K.** and M.S. Burt. 2002. The banner-tailed kangaroo rat (*Dipodomys spectabilis*) in west-central New Mexico. New Mexico Journal of Science.
28. **Frey, J.K.**, R.D. Fisher, M.A. Bogan, C. Jones. 2002. First record of the Arizona cotton rat (*Sigmodon arizonae*) in New Mexico. Southwestern Naturalist, 47:491-493.
29. Dunum, J.L., **J.K. Frey**, D. Tinin, J. Salazar-Bravo, T.L. Yates. 2002. Elevational range extension for the hispid cotton rat, *Sigmodon hispidus*, (Rodentia: Muridae). Southwestern Naturalist, 47:637-639.
30. **Frey, J.K.** 2003. Distributional records and natural history notes for uncommon mammals on the Llano Estacado of eastern New Mexico. New Mexico Journal of Science, 43:1-24.
31. **Frey, J.K.** 2004. Taxonomy and distribution of the mammals of New Mexico: an annotated checklist. Occasional Papers, Museum of Texas Tech University, 240:1-32.

PUBLICATIONS (continued):

32. **Frey, J.K.** 2006. Inferring species distributions in the absence of occurrence records: an example considering wolverine (*Gulo gulo*) and Canada lynx (*Lynx canadensis*) in New Mexico. *Biological Conservation*, 130:16-24.
33. **Frey, J.K.** 2006. Review of *Mammals of Carlsbad Caverns National Park, New Mexico*, by K.N. Geluso and K. Geluso, 2004. *Journal of Mammalogy*, 87:817.
34. Malaney, J.A. and **J.K. Frey**. 2006. Summer habitat use by snowshoe hare and mountain cottontail at their southern zone of sympatry. *Journal of Wildlife Management*, 70:877-883.
35. **Frey, J.K.**, and Malaney. 2006. Snowshoe hare (*Lepus americanus*) and mountain cottontail (*Sylvilagus nuttallii*) biogeography at their southern range limit. *Journal of Mammalogy*, 87:1175-1182.
36. Ditto, A. M., and **J. K. Frey**. 2007. Effects of ecogeographic variables on genetic variation in montane mammals: implications for population survivorship in a global warming scenario. *Journal of Biogeography*, 34:1136-1149.
37. **Frey, J.K.**, T.L. Yates, and M.A. Bogan. 2007. Mountaintop island age determines species richness of boreal mammals in the American Southwest. *Ecography*, 30:231-240.
38. **Frey, J.K.** 2007. The cliff chipmunk (*Tamias dorsalis*) does not occur in the Sandia Mountains, New Mexico. *Western North American Naturalist*, 67:611-612.
39. Jones, G.D., and **J.K. Frey**. In Press. First records of gray fox (*Urocyon cinereoargenteus*) on Texas barrier islands. *Texas Journal of Science*.
40. **Frey, J.K.**, M.T. Hill, B.L. Christman, J.C. Truett, S.O. MacDonald. In Press. Distribution and habitat of the Arizona gray squirrel (*Sciurus arizonensis*) in New Mexico. *Southwestern Naturalist*.
41. Stuart, J.N., **J.K. Frey**, Z. J. Schwenke, and John S. Sherman. In Press. Status of the armadillo (*Dasypus novemcinctus*) in New Mexico. *Prairie Naturalist*.
42. **Frey, J.K.**, and J.N. Stuart. In Press. Nine-banded armadillo (*Dasypus novemcinctus*) records in New Mexico, USA. *Edentata*

MANUSCRIPTS IN REVISION:

43. Hope, A. and **J.K. Frey**. Influence of species distributions on system-level island biogeographic patterns: An example based on boreal mammals in western North America. *Journal of Biogeography*.

SUBMITTED MANUSCRIPTS:

44. Cervantes, F. A., I. Lopez-Hernandez, **J. K. Frey**. *Microtus guatemalensis*. *Mammalian Species*.
45. **Frey, J.K.** and Z.J. Schwenke. Mammals of Sugarite Canyon State Park, Colfax County, New Mexico. *Occasional Papers, Museum of Southwestern Biology*.
46. **Frey, J.K.**, B.J. Frey, and D.W. Moore. Karyotypes of the long-tailed vole (*Microtus longicaudus*) in isolated mountain ranges of the American Southwest. *Southwestern Naturalist*.
47. Wampler, C.R., **J.K. Frey**, D.M. VanLeeuwen, J.C. Boren, T.T. Baker. Mammals in mechanically thinned and non-thinned mixed coniferous forest in the Sacramento Mountains, New Mexico. *Southwestern Naturalist*.
48. **Frey, J.K.** The red squirrel (*Tamiasciurus hudsonicus*) in New Mexico: new distributional records and extirpation from the Zuni Mountains. *Western North American Naturalist*.
49. **Frey, J.K.**, R.D. Fisher, and S.C. Peurach. Emendation of the type locality of the Peñasco least chipmunk, *Tamias minimus atristriatus* (Bailey, 1913). *Proceedings of the Biological Society of Washington*.
50. **Frey, J.K.**, and J.L. Malaney. Decline of a riparian indicator species, the meadow jumping mouse (*Zapus hudsonius luteus*), in relict montane habitats in the American Southwest. *Southwestern Naturalist*

MANUSCRIPTS IN PREPARATION:

- Frey, J.K., A. Hope, J.L. Malaney. Habitat use by red squirrels in a region of extreme topographic and habitat heterogeneity. *Journal of Wildlife Management*.
- Malaney, J.L., and J.K. Frey. Demography of snowshoe hare (*Lepus americanus*) at the southern edge of its range. *Journal of Mammalogy*.
- Frey, J.K., J.L. Malaney, and Z. Schwenke. Habitat partitioning between two species of

jumping mice (*Zapus*) in a zone of sympatry. *Journal of Mammalogy*

- Frey, J.K. and G. Roemer. Historical spatial changes in biotic communities in the American Southwest. *Journal of Arid Environments*