

**CURRICULUM VITAE****for****STEPHEN H. JENKINS**

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**PRESENT POSITION** Professor of Biology, University of Nevada, Reno.

**EDUCATION**

1968 A.B., Dartmouth College, Biology (Magna cum Laude, with Highest Distinction in major subject).

1975 Ph.D., Harvard University, Biology.

**EMPLOYMENT**

1974-Present Lecturer (1974-1975), Assistant Professor (1975-1980), Associate Professor (1980-1990), Professor (1990-present) of Biology, University of Nevada, Reno (UNR).

1990-1991 Instructional Computing Coordinator, UNR.

1978-1988 (summers) Scientist-in-Residence, Whittell Forest and Wildlife Area, UNR.

1977 (summer) Biologist (GS-11), Bureau of Land Management, Nevada State Office.

1973-1974 Tutor in Biology, Harvard University.

1970-1973 Teaching Fellow in Biology, Harvard.

1968-1970 Science and Math Teacher, Roeper City and Country School, Bloomfield Hills, Michigan.

**HONORS AND AWARDS**

1964-1968	National Merit Scholarship at Dartmouth College.
1967	Elected to Phi Beta Kappa.
1970-1971	National Science Foundation Traineeship, Harvard University.
1971-1974	Richmond Scholarship, Harvard.
1972 (summer)	NSF Evolutionary Biology Training Grant, Harvard.
1978	First-place award for innovative course development (for summer field ecology course), Honors Study Board, UNR.
1983-1984, 1992-1993, 2001-2002	Sabbatical Leave from UNR.
2000	Vada Trimble Outstanding Mentor Award, Graduate Student Association, UNR.
2005	Runner-UP, Mousel-Feltner Award for Excellence in Research and/or Creative Activity, College of Liberal Arts and College of Science

**PROFESSIONAL SERVICE**

Subject-Matter Editor for **Ecology** and **Ecological Monographs** (1995-1998)

Associate Editor for Animal Ecology of the **American Midland Naturalist** (1990-1995).

Member of National Research Council biological sciences panel for NSF Minority Graduate Fellowship Program (1987-1989), member of review panel for NSF Program in Course, Curriculum, and Laboratory Improvement (2006).

Reviewer for numerous journals and several granting agencies and of student papers and proposals for the American Society of Mammalogists, Animal Behavior Society, and Ecological Society of America.

**PROFESSIONAL SOCIETIES**

American Society of Mammalogists (former chair of Merriam Award Committee, member of Grants-in-Aid Committee), Animal Behavior Society, Ecological Society of America, Sigma Xi.

**BOOKS**

2004 Jenkins, S. H. *How science works: evaluating evidence in biology and medicine*. Oxford University Press, New York, x + 227 pages.

**OTHER PUBLICATIONS**

- 1975 Jenkins, S. H. Food selection by beavers: a multidimensional contingency table analysis. **Oecologia** 21:157-173.
- 1978 Jenkins, S. H. Food selection by beavers: sampling behavior. **Breviora** 447:1-6.
- 1979 Jenkins, S. H. Ecology and management of ground squirrels in north-central Nevada. Pp. 79-91 in D. L. Koch et al., editors, Cal-Neva Wildlife 1978.
- 1979 Jenkins, S. H., and P. E. Busher. *Castor canadensis*. Mammalian Species No. 120:1-8 (a special publication of the American Society of Mammalogists).
- 1979 Anderson, M. M., and S. H. Jenkins. Gene frequencies in the domestic cats of Reno, Nevada: confirmation of a recent hypothesis. **Journal of Heredity** 70:267-269.
- 1979 Jenkins, S. H. Seasonal and year-to-year differences in food selection by beavers. **Oecologia** 44:112-116.
- 1980 Jenkins, S. H. A size-distance relation in food selection by beavers. **Ecology** 61:740-746.
- 1981 Jenkins, S. H., and J. B. Llewellyn. Multiple captures of *Peromyscus maniculatus* and *P. truei*: age, sex, and species differences. **Journal of Mammalogy** 62:639-641.
- 1981 Jenkins, S. H. Common patterns in home range - body size relationships of birds and mammals. **The American Naturalist** 118:126-128.
- 1981 Jenkins, S. H. Problems, progress, and prospects in studies of food selection by beavers. Pp. 559-579 in J. A. Chapman and D. Pursley, editors, Worldwide Furbearer Conference Proceedings, Volume I.
- 1982 Jenkins, S. H. Management implications of optimal foraging theory: a critique. **Journal of Wildlife Management** 46:255-257.
- 1983 Busher, P. E., R. J. Warner, and S. H. Jenkins. Population density, colony composition, and local movements in two Sierra Nevada beaver populations. **Journal of Mammalogy** 64:314-318.
- 1984 Jenkins, S. H., and B. D. Eshelman. *Spermophilus beldingi*. Mammalian Species No. 221:1-8 (a special publication of the American Society of Mammalogists).
- 1984 Vig, B. K., M. L. Figueroa, M. N. Cornforth, and S. H. Jenkins. Chromosome studies in human subjects chronically exposed to arsenic in drinking water. **American Journal of Industrial Medicine** 6:325-338.
- 1985 Busher, P. E., and S. H. Jenkins. Behavioral patterns of a beaver family in California. **Biology of Behavior** 10:41-54.

- 1986 Mewaldt, W. T., and S. H. Jenkins. Genetic variation of woodrats (*Neotoma cinerea*) and deer mice (*Peromyscus maniculatus*) on montane habitat islands in the Great Basin. **Great Basin Naturalist** 46:577-580.
- 1986 Price, M. V., and S. H. Jenkins. Rodents as seed consumers and dispersers. Pp. 191-235 in D. R. Murray, ed., Seed dispersal. Academic Press Inc., Orlando, FL, xiv + 322 pp.
- 1987 Llewellyn, J. B., and S. H. Jenkins. Mechanisms of niche shift in mice: seasonal changes in microhabitat breadth and overlap. **The American Naturalist** 129:365-381.
- 1987 Longland, W. S., and S. H. Jenkins. Sex and age affect vulnerability of desert rodents to owl predation. **Journal of Mammalogy** 68:746-754.
- 1988 Jenkins, S. H. Comments on relationships between native seed preferences of shrub-steppe granivores and seed nutritional characteristics. **Oecologia** 75:481-482.
- 1988 Basey, J. M., S. H. Jenkins, and P. E. Busher. Optimal central-place foraging by beavers: tree-size selection in relation to defensive chemicals of quaking aspen. **Oecologia** 76:278-282.
- 1988 Peacock, M. M., and S. H. Jenkins. Development of food preferences: social learning by Belding's ground squirrels *Spermophilus beldingi*. **Behavioral Ecology and Sociobiology** 22:393-399.
- 1988 Jenkins, S. H. Use and abuse of demographic models of population growth. **Bulletin of the Ecological Society of America** 69:201-207.
- 1989 Jenkins, S. H., and P. W. Bollinger. An experimental test of diet selection by the pocket gopher *Thomomys monticola*. **Journal of Mammalogy** 70:406-412.
- 1989 Jenkins, S. H. Comments on an inappropriate population model for feral burros. **Journal of Mammalogy** 70:667-670.
- 1989 Eshelman, B. D., and S. H. Jenkins. Food selection by Belding's ground squirrels in relation to plant nutritional features. **Journal of Mammalogy** 70:846-852.
- 1990 Basey, J. M., S. H. Jenkins, and G. C. Miller. Food selection by beavers in relation to inducible defenses of *Populus tremuloides*. **Oikos** 59:57-62.
- 1992 Jenkins, S. H., and R. A. Peters. Spatial patterns of food storage by Merriam's kangaroo rats. **Behavioral Ecology** 3:60-65.
- 1992 Pierce, B. M., W. S. Longland, and S. H. Jenkins. Rattlesnake predation on desert rodents: microhabitat and species-specific effects on risk. **Journal of Mammalogy** 73:859-865.
- 1993 Jenkins, S. H., and R. Ascanio. A potential nutritional basis for resource partitioning by desert rodents. **American Midland Naturalist** 130:164-172.

- 1993 Basey, J. M., and S. H. Jenkins. Production of chemical defenses in relation to plant growth rate. **Oikos** 68:323-328.
- 1994 Jenkins, S. H. RAMAS Population Modeling Software. Pp 68-74 in Valuable viable software in education: cases and analysis (P. Morris, S. Ehrmann, R. Goldsmith, K. Howat, and V. Kumar, eds.) McGraw-Hill, Inc., New York, New York, USA.
- 1995 Jenkins, S. H. Carfentanil, bison, and statistics: the last word? **Journal of Wildlife Diseases** 31:104-105.
- 1995 Jenkins, S. H., A. Rothstein, and W. C. H. Green. Food hoarding by Merriam's kangaroo rats: a test of alternative hypotheses. **Ecology** 76:2470-2481.
- 1995 Basey, J. M., and S. H. Jenkins. Influence of predation risk and energy maximization on food selection by beavers (*Castor canadensis*). **Canadian Journal of Zoology** 73:2197-2208.
- 1997 Breck, S. W., and S. H. Jenkins. Use of an ecotone to test the effects of soil and desert rodents on the distribution of Indian ricegrass. **Ecography** 20:253-263.
- 1997 Jenkins, S. H. Perspectives on individual variation in mammals. **Journal of Mammalogy** 78:271-273.
- 1997 Hayes, J. P., and S. H. Jenkins. Individual variation in mammals. **Journal of Mammalogy** 78:274-293.
- 1997 Smith, D. W., and S. H. Jenkins. Seasonal change in body mass and size of tail in northern beavers. **Journal of Mammalogy** 78:869-876.
- 1997 McMurray, M. H., S. H. Jenkins, and W. S. Longland. Effects of seed density on germination and establishment of a native and an introduced grass species dispersed by granivorous rodents. **American Midland Naturalist** 138:322-330.
- 1997 Sweitzer, R. A., S. H. Jenkins, and J. Berger. The near-extinction of porcupines by mountain lions and consequences of ecosystem change in the Great Basin desert. **Conservation Biology** 11:1407-1417.
- 1998 Jenkins, S. H., and S. W. Breck. Differences in food hoarding among six species of heteromyid rodents. **Journal of Mammalogy** 79:1221-1233.
- 1998 Duncan, R. D., and S. H. Jenkins. Use of visual cues in foraging by a diurnal herbivore, the Belding's ground squirrel. **Canadian Journal of Zoology** 76:1766-1770.
- 1999 Jenkins, S. H., and D. W. Smith. American beaver / *Castor canadensis*. Pp 548-552 in D. E. Wilson and S. Ruff, eds., The Smithsonian book of North American mammals. Smithsonian Institution Press, Washington, D. C., 750 pp.

- 2000 Veech, J. A., D. A. Charlet, and S. H. Jenkins. Interspecific variation in seed mass and the coexistence of conifer species: a null model test. **Evolutionary Ecology Research** 2:353-363.
- 2000 Newmark, J. A., and S. H. Jenkins. Sex differences in agonistic behavior of Merriam's kangaroo rats (*Dipodomys merriami*). **American Midland Naturalist** 143:377-388.
- 2000 Jenkins, S. H. Density dependence in population dynamics of feral horses. Resource Notes No. 26. Bureau of Land Management, U. S. Department of the Interior, 2 pages.
- 2001 Longland, W. S., S. H. Jenkins, S. B. Vander Wall, J. A. Veech, and S. Pyare. Seedling recruitment in *Oryzopsis hymenoides*: Are desert granivores mutualists or predators? **Ecology** 82:3131-3148.
- 2002 Jenkins, S. H. Data pooling and type I errors: a comment on Leger & Didrichsons (1994). **Animal Behaviour** 63:F9-F11.
- 2003 Jenkins, S. H., and M. C. Ashley. Wild horse (*Equus caballus* and allies). Pages 1148-1163 in *Wild mammals of North America: Biology, management, and conservation*, 2nd edition, edited by G. Feldhamer et al., Johns Hopkins University Press.
- 2003 Vander Wall, S. B., and S. H. Jenkins. Reciprocal pilferage and the evolution of food-hoarding behavior. **Behavioral Ecology** 14:656-667.
- 2005 Veech, J. A., and S. H. Jenkins. Comparing the effects of granivorous rodents on persistence of Indian ricegrass (*Oryzopsis hymenoides*) seeds in mixed and monospecific seed patches. **Western North American Naturalist** 65:321-328.
- 2006 Hannon, M. J., S. H. Jenkins, R. L. Crabtree, and A. K. Swanson. Visibility and vigilance: Behavior and population ecology of Uinta ground squirrels (*Spermophilus armatus*) in different habitats. **Journal of Mammalogy** 87:287-295.
- 2006 Murray, A. L., A. M. Barber, S. H. Jenkins, and W. S. Longland. Competitive environment affects food-hoarding behavior of Merriam's kangaroo rats (*Dipodomys merriami*). **Journal of Mammalogy** 87:571-578.
- 2006 Doerr, V. A. J., E. D. Doerr, and S. H. Jenkins. Habitat selection in two Australasian treecreepers: what cues should they use? **Emu** 106:93-103.
- 2006 Vander Wall, S. B., J. S. Briggs, S. H. Jenkins, K. M. Kuhn, T. C. Thayer, and M. J. Beck. Do food-hoarding animals have a cache recovery advantage? Determining recovery of stored food. **Animal Behaviour** 72:189-197.
- 2007 Dochtermann, N. A., and S. H. Jenkins. Behavioural syndromes in Merriam's kangaroo rats (*Dipodomys merriami*): a test of competing hypotheses. **Proceedings of the Royal Society B** 274:2343-2349.

- 2007 Saito, L., H M. Segale, D. L. DeAngelis, and S. H. Jenkins. Developing an interdisciplinary curriculum framework for aquatic ecosystem mModeling. **Journal of College Science Teaching** 37(2):46-52.
- 2008 Briggs, J. S., S. B. Vander Wall, and S. H. Jenkins. Forest rodents provide directed dispersal of Jeffrey pine seeds. **Ecology**, *in press*.
- 2008 Richardson, T. W., T. Gardali, and S. H. Jenkins. Camera effects on avaina nest success: a review and meta-analysis. **Journal of Wildlife Management**, *in press*.

## SOFTWARE

- 2002 Wild Horse Population Model version 1.4. This is a stochastic model which simulates growth of wild horse populations under various management options and is used by the Bureau of Land Management for projecting the effects of culling and fertility control on population dynamics. It is written in Visual Basic for Windows and has extensive on-line help. It is descended from versions written in 1993 in C++ and 1996 in True BASIC

## BOOK and SOFTWARE REVIEWS

- 1981 Jenkins, S. H. Deer population ecology and management (review of *The George Reserve deer herd*, by D. R. McCullough). **Ecology** 62:285.
- 1988 Jenkins, S. H. Review of *Foraging theory*, by D. W. Stephens and J. R. Krebs. **Journal of Mammalogy** 69:877.
- 1993 Jenkins, S. H. Review of *RAMAS/age* (population dynamics software by S. Ferson and H. R. Akçakaya). **Quarterly Review of Biology** 68:159-160.
- 2000 Jenkins, S. H. Review of *Feeding the ten billion: Plants and population growth*, by L. T. Evans. **Quarterly Review of Biology** 75:220.
- 2004 Jenkins, S. H. Review of *The crowded greenhouse: Population, climate change, and creating a sustainable world*, by John Firor and Judith E. Jacobsen, **Quarterly Review of Biology** 79:97.
- 2006 Jenkins, S. H. Review of *Climate change and biodiversity*, edited by Thomas E. Lovejoy and Lee Hannah. **Quarterly Review of Biology** 81:84.

## GRANTS AND CONTRACTS

- 1975, 1977, 1979, 1989 Research Advisory Board grants from UNR for studies of food selection by woodrats, social organization of beavers, population genetics of woodrats and deer mice, and food hoarding by kangaroo rats.
- 1987 Instructional Enhancement Grant for software for teaching computer programming to life science students, UNR.

- 1992-1996 Behavioral adaptation to a desert environment: an experimental comparative study of food hoarding. **National Science Foundation**, \$92,904.
- 1992-1996 Population dynamics of wild horses in Nevada. **Bureau of Land Management**, \$210,948.
- 1994-1997 Impacts of granivory on Indian ricegrass populations. **USDA Competitive Grants Program**, \$199,962 (with W. S. Longland and S. B. Vander Wall).
- 1997-2003 Wild horses in the desert: a long-term study of life history, behavior, and genetics. **Bureau of Land Management**, \$196,776.
- 1999-2000 Instructional Enhancement Grant for software for teaching population and community ecology, UNR.
- 2002-2004 Proximate causes and adaptive significance of individual variation in the behavior of kangaroo rats. **National Science Foundation**, Doctoral Dissertation Improvement Grant to Amy M. Barber and Stephen H. Jenkins, \$9410.
- 2007 Instruction Enhancement Grant for *Rationale* argument mapping software for teaching general biology and research design, UNR.

## TEACHING EXPERIENCE

I have taught the following courses in my 34 years at the University of Nevada, Reno (courses highlighted in bold have been taught regularly in recent years):

- lower division                      Biology: Principles and Applications (aka "Biology for Non-Majors")  
Animal Biology, Humans and the Environment
- upper division                      **Ecology and Population Biology** (core course for undergraduates)  
**Mammalogy**  
Population and Community Ecology  
Laboratory in Ecology and Population Biology  
Animal Ecology  
Principles of Animal Behavior  
Experimental Field Ecology  
Computer Acquaintance for Biological Sciences
- graduate                              **Research Design in Ecology** (core course for graduate students)  
**Mathematical Modeling in Ecology**  
Advanced Population Ecology  
Advanced Wildlife Ecology  
Topics in Ecology

## **GRADUATE STUDENTS**

Twelve Ph.D. students and 17 M.S. students have completed their degrees under my supervision since 1974. The Ph.D. students were M. Ashley, J. Auger, A. Barber, J. Basey, P. Busher, V. Doerr, C. Gubbins, J. Llewellyn, W. Mewaldt, D. Smith, R. Sweitzer, and J. Veech. The M.S. students were J. Basey, S. Benner, P. Bollinger, S. Breck, S. Cox, R. Duncan, B. Eshelman, R. Haley, M. Hannon, A. Hargett, T. Kepler, W. Longland, A. Murray, M. Peacock, B. Pierce, R. Peters, and R. Warner. I have also advised 2 postdoctoral fellows, W. Green and A. Rothstein. I currently advise 1 Ph.D. students in Ecology, Evolution, and Conservation Biology and 1 M.S. student in Biology.

## **UNIVERSITY SERVICE**

I have served on numerous University, College of Arts and Science, College of Science, and departmental committees. Among the most important have been Faculty Senate (member of Executive Board for 2008-2009), University Tenure and Promotion Committee, Sabbatical Leave Committee (chair one year), Tibbitts Distinguished Teaching Award Committee, Mousel-Feltner Award Committee, Junior Faculty Research Grant Selection Committee, University of Nevada Press Editorial Advisory Board, Whittell Forest and Wildlife Area Board of Control (chair several years), Salary and Benefits Committee, College Personnel Committee (chair one year), College Courses and Curricula Committee, College Bylaws Committee, College Apportionment Committee, Ecology, Evolution, and Conservation Biology Admissions and Examination Committees, and search committees for Vice President for Information Technology, Director of Laboratory Animal Medicine, Chair of the Biology Department, and several key faculty positions in the Biology Department.