

CURRICULUM VITAE of BRETT ROBERT RIDDLE

CURRENT POSITION

Professor, promotion and tenure 1996, promotion 2002
University of Nevada Las Vegas
College of Sciences
Department of Biological Sciences
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Las Vegas NV 89154-4004

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BIOGRAPHICAL INFORMATION

Date of birth: 24 September 1956
Place of birth: Boulder, Colorado

EDUCATION

B.A., University of Northern Colorado, Greeley, Colorado, 1979 (Biology)
M.S., Fort Hays State University, Hays, Kansas, 1984 (Zoology)
Ph.D, University of New Mexico, Albuquerque, New Mexico, 1990 (Biology)

RESEARCH INTERESTS

Molecular systematics and evolution of mammals and other vertebrate taxa
Biogeography, phylogeography, and paleoecology
Evolution of North American biotas
Conservation biology

EMPLOYMENT HISTORY, SINCE 1979

2002-present Professor, University of Nevada Las Vegas
1996-02 Associate Professor, University of Nevada Las Vegas
1990-96 Assistant Professor, University of Nevada Las Vegas
1988-89 Research Assistant, Department of Biology, UNM
1985 Research Assistant, Department of Biology, UNM
1984-86 Assistant Curator, Museum of Southwestern Biology, UNM
1984 Biological Technician, Denver Wildlife Research Center
1981-83 Curatorial Assistant, Museum of the High Plains, FHSU

1983	Biological Technician, National Museum of Natural History
1981-83	Biological Technician, Denver Wildlife Research Center
1980-81	Graduate Research Assistant, FHSU
1980	Wildlife Technician, Colorado Division of Wildlife
1979-80	Technician, National Fish and Wildlife Laboratories

UNLV COURSE DEVELOPMENT AND INSTRUCTION

BIO 191	Principles of Modern Biology II [lecture, with S. Smith], 04
BIO 796	Systematics seminar [graduate seminar], ongoing
BIO 434/634	Mammalogy [lecture/lab] 91, 93, 96, 97, 99, 01, 03, 04, 06
BIO 496/790	Advanced Field Mammalogy [seminar/field] 97, 98, 99, 02
BIO 490/690	Biogeography 90, 92, 94, 96, 98, 00, 02, 05, 07
BIO 493/796	Advanced Biogeography seminar
BIO 784	Conservation Biology [lecture/discussion] 91, 93, 95, 98, 02, 06
BIO 155x	Natural History of the Desert Southwest [lecture, with S. Smith] 95
BIO 487/687	Principles of Systematics [lecture] 92, 95
BIO 792	Molecular Biogeography [graduate seminar] 93
BIO 791	Molecular Systematics [graduate seminar] 93
BIO 714	Population Genetics [lecture, with D. Thompson] 91, 93
BIO 796	Historical Ecology [graduate seminar]
BIO 796	Speciation [graduate seminar, with D. Thompson]

PUBLICATIONS

BOOKS

Lomolino, M. V., B. R. Riddle, and J. H. Brown. 2005. *Biogeography, third edition*. Sinauer Associates, Inc.

BOOK CHAPTERS

- Riddle, B. R. and D. J. Hafner. 2006. *Phylogeography in historical biogeography: investigating the biogeographic histories of populations, species, and young biotas*. Pp. 161-176, in *Biogeography in a Changing World* (M.C. Ebach and R.S. Tangney, eds.). CRC Press, Boca Raton.
- Hafner, D. J., and B. R. Riddle. 2005. *Mammalian phylogeography and evolutionary history of northern Mexico's deserts*. pp. 225-245. in *Biodiversity, ecosystems, and conservation in northern Mexico*. (J-L. Cartron, G. Ceballos, and R.S. Felger, eds.). Oxford University Press, New York.
- Riddle, B. R. and D. J. Hafner 2004. *The past and future roles of phylogeography in historical biogeography*. Pp. 93-110, in *Frontiers of biogeography: new directions in the geography of nature* (M. V. Lomolino and L. R. Heaney, eds.). Sinauer Associates, Inc.
- Riddle, B. R. and V. Funk. 2004. *Part II: Phylogeography and Diversification* Pp. 87-91, in *Frontiers of biogeography: new directions in the geography of nature* (M. V. Lomolino and L. R. Heaney, eds.). Sinauer Associates, Inc.
- Giller, P. S., A. A. Myers, and B. R. Riddle. 2004. *Earth history, vicariance, and dispersal*. Pp.

- 267-276 in *Foundations of biogeography: classic papers with commentaries* (J.H. Brown, M.V. Lomolino, and D. Sax, eds.). University of Chicago Press.
- Hengeveld, R., P. S. Giller, and B. R. Riddle. 2004. *Species Ranges*. Pp. 449-455 in *Foundations of biogeography: classic papers with commentaries* (J.H. Brown, M.V. Lomolino, and D. Sax, eds.). University of Chicago Press.
- Lawlor, T.E., D.J. Hafner, P. Stapp, B.R. Riddle, and S.T. Alvarez-Castaneda. 2002. *Mammals*. Pp. 326-361, in *A new island biogeography of the Sea of Cortés* (T.J. Case, M.L. Cody, and E. Ezcurra, eds.). Oxford University Press, New York.
- Riddle, B.R. 1999. *Onychomys arenicola*. Pp. 588, in *The Complete Book of North American Mammals* (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Riddle, B.R. 1999. *Onychomys leucogaster*. Pp. 588-590, in *The Complete Book of North American Mammals*. (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Riddle, B.R. 1999. *Onychomys torridus*. Pp. 590-591, in *The Complete Book of North American Mammals*. (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Riddle, B.R. 1999. *Perognathus fasciatus*. Pp. 497, in *The Complete Book of North American Mammals*. (D.E. Wilson and S. Ruff, eds.). Smithsonian Press.
- Hafner, D.J., and B.R. Riddle. 1997. *Biogeography of Baja California peninsular desert mammals*. pp. 39-68, in *Life Among the Muses: Papers in Honor of James S. Findley*, eds. T.L. Yates, W.L. Gannon, and D.E. Wilson. The Museum of Southwestern Biology, The University of New Mexico, Albuquerque.
- Riddle, B.R., and K.B. Jones, Jr. 1996. *Relating phylogeographic population structure to issues in conservation biology*. pp. 108-120, in *Biodiversity in Managed Landscapes*, eds. D. Johnson and R. Szaro. Oxford University Press.
- Jones, K.B., Jr., and B.R. Riddle. 1996. *Regional scale monitoring of biological diversity*. pp. 193-209, in *Biodiversity in Managed Landscapes*, eds. D. Johnson and R. Szaro. Oxford University Press.

JOURNAL ARTICLES

- Hafner, J.C, J.E. Light, D.J. Hafner, M.S. Hafner, E. Reddington, D.S. Rogers, and B.R. Riddle. In Review. *Basal clades and molecular systematics of heteromyid rodents*. *Journal of Mammalogy*.
- Spellman, G.M., B.R. Riddle, and J. Klicka. In Press. *Phylogeography of the Mountain Chickadee (*Poecile gambeli*): diversification, introgression, and expansion in response to Quaternary climate change*. *Molecular Ecology*.
- Williams, J.A., M.J. O'Farrell, and B.R. Riddle. 2006. *Community structure and habitat use by bats in a riparian corridor of the Mojave Desert of southern Nevada*. *Journal of Mammalogy* 87:1145-1153.
- Riddle, B.R. 2006. Frontispiece to Special Issue: Conservation Biogeography. *Journal of Biogeography* 33:2025-2026.
- Lomolino, M.V., D.F. Sax, B.R. Riddle, and J.H. Brown. 2006. *The island rule and a research agenda for studying ecogeographical patterns*. *Journal of Biogeography* 33:1503-1510.
- Riddle, B. R. and D. J. Hafner. 2006. *A step-wise approach to integrating phylogeographic and phylogenetic biogeographic perspectives on the history of a core North American warm deserts biota*. *Journal of Arid Environments* 66:435-461. [Invited Submission for Special Feature on Historical Biogeography of Deserts].

- Riddle, B.R. and D.J. Hafner. 2006. *Biogeografía histórica de los desiertos cálidos de Norteamérica*. New Mexico Museum of Natural History & Science Bulletin 32:57-65.
- Mantooth, S.J., and B.R. Riddle. 2005. *Annotated checklist of the Recent mammals of Nevada*. Occasional Papers, Museum, Texas Tech University.
- Riddle, B. R. 2005. *The International Biogeography Society and the inaugural Alfred Russel Wallace Award*. Journal of Biogeography 32:1507-1508.
- Jaeger, J. R., B. R. Riddle, and D. F. Bradford. 2005. *Cryptic Neogene vicariance and Quaternary dispersal of the red-spotted toad (*Bufo punctatus*): insights on the evolution of North American warm desert biotas*. Molecular Ecology, 14:3033-3048.
- Riddle, B. R. 2005. *Is biogeography emerging from its identity crisis?* Journal of Biogeography, 32: 185-186.
- Alexander, L.F., and B.R. Riddle. 2005. *Phylogenetics within the family Heteromyidae*. Journal of Mammalogy, 86:366-379.
- Riddle, B.R. 2004. *Review of Cladistics: A Practical Primer*. Journal of Mammalogy, 85:169-170.
- Hunter, K. H., J. L. Betancourt, B. R. Riddle, et al. 2001. *Ploidy race distributions since the Last Glacial Maximum in the North American desert shrub, *Larrea tridentata**. Global Ecology and Biogeography. 10: 521-533.
- Hafner, D.J., B.R. Riddle, and S.T. Alvarez-Castaneda. 2001. *Evolutionary relationships of white-footed mice (*Peromyscus*) on islands in the Sea of Cortéz, Mexico*. Journal of Mammalogy.82: 775-790.
- Jaeger, J.R., B.R. Riddle, R.D. Jennings, and D.F. Bradford. 2001. *Rediscovering *Rana onca*: evidence for phylogenetically distinct leopard frogs from the border region of Nevada, Utah, and Arizona*. Copeia, 2001:339-354.
- Riddle, B.R., D.J. Hafner, L.F. Alexander, and J.R. Jaeger. 2000. *Cryptic vicariance in the historical assembly of a Baja California Peninsular Desert biota*. Proc. Natl. Acad. Sci, USA, 97: 14438-14443.
- Riddle, B.R., D.J. Hafner, and L.F. Alexander. 2000. *Phylogeography and systematics of the *Peromyscus eremicus* species group and the historical biogeography of North American warm regional deserts*. Molecular Phylogenetics and Evolution, 17:145-160
- Riddle, B.R., D.J. Hafner, and L.F. Alexander. 2000. *Evolution of Baileys' pocket mouse (*Chaetodipus baileyi*), comparative biogeography of *C. baileyi* and the *Peromyscus eremicus* species-group, and historical vicariance of peninsular and continental deserts in western North America*. Molecular Phylogenetics and Evolution, 17:161-172.
- Riddle, B.R. and D.J. Hafner. 1999. *Species as units of analysis in ecology and biogeography: time to take the blinders off*. Global Ecology and Biogeography. 8:433-441.
- Orange, D.I., B.R. Riddle, and D.C. Nickle. 1999. *Phylogeography of a wide-ranging, non-territorial desert lizard, *Gambelia wislizenii* (Crotaphytidae)*. Copeia, 1999:267-273.
- Riddle, B.R. 1998. *The historical assembly of continental biotas: Late Quaternary range-shifting, areas of endemism, and biogeographic structure in the North American mammal fauna*. Ecography, 21:437-446.
- Riddle, B.R., D.L. Propst, and T.L. Yates. 1998. *An evaluation of mitochondrial DNA restriction-site and control region sequence variation in the Gila Trout (*Oncorhynchus gilae*): implications for management of an endangered species*. Copeia 1998:31-39.
- Riddle, B.R. 1997. *Review of: Brown, J.H. 1995. Macroecology*. Journal of Mammalogy, 78:257-260.

- Britten, H.B., B.R. Riddle, P.F. Brussard, and T.E. Lee, Jr. 1997. *Genetic delineation of management units for the Desert tortoise, Gopherus agassizii, in the Northeastern Mojave desert*. *Copeia*, 3:523-530.
- Walker, L.R., and B.R. Riddle. 1997. *Review of: Wagner, W.L. and Funk, V.A. (eds) 1995. Hawaiian biogeography: evolution on a hot spot archipelago*. *Journal of Tropical Ecology*, 13:640.
- Riddle, B.R. 1996. *The molecular phylogeographic bridge between deep and shallow history in continental biotas*. *Trends in Ecology and Evolution*, 11:207-211.
- Lee, T.E., Jr., B.R. Riddle, and P.L. Lee. 1996. *Speciation in the Desert pocket mouse (Chaetodipus penicillatus Woodhouse)*. *Journal of Mammalogy*, 77:58-68.
- Riddle, B.R. 1995. *Molecular biogeography in the pocket mice (Perognathus and Chaetodipus) and grasshopper mice (Onychomys): the Late Cenozoic development of a North American aridlands rodent guild*. *Journal of Mammalogy* 76:283-301.
- Riddle, B.R. 1995. *Special feature: mammalian biogeography*. *Journal of Mammalogy* 76:281-282.
- Grant, E.C., and B.R. Riddle. 1995. *Are the endangered Springfish (Crenichthys Hubbs) and Poolfish (Empetrichthys Gilbert) fundulines or goodeids?: a mitochondrial DNA assessment*. *Copeia* 1995:209-212.
- Riddle, B.R., R.L. Honeycutt, and P.L. Lee. 1993. *Mitochondrial DNA phylogeography in northern grasshopper mice (Onychomys leucogaster)--the influence of Quaternary climatic oscillations on population dispersion and divergence*. *Molecular Ecology* 2:183-193.
- Anderson, S., B.R. Riddle, T.L. Yates, and J.A. Cook. 1993. *Los mamíferos del Parque Nacional Amboro y la region de Santa Cruz de la Sierra, Bolivia*. Special Publication of the Museum of Southwestern Biology 2:1-58.
- Riddle, B.R., and R.L. Honeycutt. 1990. *Historical biogeography in North American arid regions: an approach using mitochondrial DNA phylogeny in grasshopper mice (genus Onychomys)*. *Evolution* 44:1-15.
- Riddle, B.R., and J.R. Choate. 1986. *Systematics and biogeography of Onychomys leucogaster in western North America*. *Journal of Mammalogy* 67:233-255.

MANUSCRIPTS IN PREPARATION

- Riddle, B.R., L.F. Alexander, and D.J. Hafner. *Biogeographic history of the Chaetodipus nelsoni species group*.
- Riddle, B.R., L.F. Alexander, and D.J. Hafner. *Biogeographic history of the Chaetodipus penicillatus species group*.
- Riddle, B.R., L.F. Alexander, and D.J. Hafner. *Phylogeny and phylogeography of Peromyscus merriami*.
- Riddle, B.R., L.F. Alexander, and D.J. Hafner. *Diversification of North American warm desert rodents: comparative phylogeography of Chaetodipus, Ammospermophilus, Dipodomys, and Haplomyiomys*.
- Riddle, B.R., L.F. Alexander, S. Neiswenter, and D. Nickle. *Phylogenetic relationships and the biogeographic template of diversification within the silky pocket mice (Rodentia: Heteromyidae: Perognathus)*.

- Hafner, D.J., B.R. Riddle, and L.F. Alexander. *Phylogeny, biogeography, and diversification within the coarse-haired pocket mice (Rodentia: Heteromyidae: Chaetodipus)*.
- Jaeger, J., D. Bradford, G. Spellman, and B. R. Riddle. *Phylogeographic population structure of Bufo punctatus in the Mojave and Lower Colorado River deserts*.
- Lowrey, C., D. Wagner, D. Thompson, and B.R. Riddle. In Review. *Habitat-specific growth rates of Palmer's chipmunk (Neotamias palmeri) in the Spring Mountain Range, Nevada*. Southwest Naturalist.
- Hafner, D.J. and B.R. Riddle. [*Boundaries and borders of North American warm deserts*] Proceedings from Paleogeography and Paleobiogeography: Biodiversity in Space and Time. Cambridge, UK. April 2006.
- Riddle, B. R. *Historical biogeography and phylogeography*. Pp. xxx-xxx in: Handbook of Biogeography (Milligan, Blumler, MacDonald, and Schickoff, eds.). Sage Handbooks, Sage Publications, London.
- Alexander, L.F., B.R. Riddle, and D.J. Hafner. *Phylogeography of Dipodomys merriami*.
- S. J. Mantooh, B. R. Riddle, and T. E. Lawlor. *Phylogeography of the Tamias umbrinus species-group: implications for Late Quaternary biogeography in the Great Basin, and conservation status of Palmer's chipmunk, Tamias palmeri*.
- Mantooh, S.J, D.J. Hafner, and B.R. Riddle. *Phylogeny and biogeography in the desert squirrel genus Ammospermophilus*.
- Jaeger, J.R., D.I. Orange, B.R. Riddle, and D.C. Nickle. *Towards a biogeographic history of collared lizards, with emphasis on the phylogeography of Crotaphytus bicinctores and C. collaris*. To be submitted. Copeia.
- Alexander, L.F., D.J. Hafner , and B.R. Riddle. Ms. in prep. *Phylogeny and biogeography of the Dipodomys spectabilis species-group*.
- Marshall, Z., J.R. Jaeger, T. Jezkova, and B.R. Riddle. Ms. in prep. *Evolutionary and conservation units in the desert pocket mouse, Chaetodipus penicillatus*.

REPORTS

- Lowrey, C. and B. R. Riddle. 2004. *A protocol for monitoring relative changes in abundance of Palmers chipmunk (Tamias palmeri)*. U.S. Forest Service SMNRA, FWS Agreement 14320-9-J102.
- Micone, K. and B. R. Riddle. 2002. *The population ecology and demography of the desert pocket mouse, Chaetodipus penicillatus sobrinus, in the Las Vegas valley*. A final report prepared for the Las Vegas Valley Water District and the CCMSHCP implementation group. Part 1 of Contract No. 1999-LVVWD-1.
- Lowrey, C., and B. R. Riddle. 2002. *A protocol for monitoring relative changes in abundance of Palmer's Chipmunk (Tamias palmeri)*. A draft report prepared for the U.S. Forest Service Spring Mountains National Recreation Area and the CCMSHCP implementation group. FWS Agreement 14320-9-J102.
- Riddle, B.R. 2001. 24 Mammalian species accounts, in Purcell, R. 2001. *Portraits of Nature*. K. C. Publications, Las Vegas.
- Riddle, B.R (ed.). 1995. *Inactive Mines as Bat Habitat: Guidelines for Research, Survey, Monitoring, and Mine Management in Nevada*. Biological Resources Research Center, University of Nevada, Reno.

- Riddle, B.R. 1995. *Introduction*. pp. 1-5 IN *Inactive Mines as Bat Habitat: Guidelines for Research, Survey, Monitoring, and Mine Management in Nevada*. ed., B.R. Riddle. Biological Resources Research Center, University of Nevada, Reno.
- Merenlender, A., and B.R. Riddle. 1995. *Concluding remarks*. pp. 146-148 IN *Inactive Mines as Bat Habitat: Guidelines for Research, Survey, Monitoring, and Mine Management in Nevada*. ed., B.R. Riddle. Biological Resources Research Center, University of Nevada, Reno.
- Jennings, R.D., B.R. Riddle, and D. Bradford. 1995. *Rediscovery of Rana onca, the Relict leopard frog, in southern Nevada with comments on the systematic relationships of some southwestern leopard frogs (Rana pipiens complex) and the status of populations along the Virgin River*. Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas.
- Riddle, B.R., L.R. Walker, and 11 others. 1994. *Spring Mountain National Recreation Area Management Plan*, Univ. of Nevada, Las Vegas, Conservation Biology Class, Fall Semester 1993, 91 pp.
- Riddle, B.R., and M.K. Ramsey. 1994. *A report on the use of the McCarran International Airport parking facility as roosting habitat by bats*. Final report, Clark County contract to B.R.Riddle.
- Riddle, B.R. 1992. *Mitochondrial DNA genetics of Desert tortoise populations in Nevada*. Final report, part C, NDOW contract GSF #90307-01.
- Riddle, B.R., T.L. Yates, and T.E. Lee, Jr. 1992. *Molecular divergence and variation in the endangered Mount Graham Red Squirrel (Tamiasciurus hudsonicus grahamensis)*. Final report, Forest Service Research contract.
- Riddle, B.R., D.L. Propst, and T.L. Yates. 1992. *Mitochondrial DNA assessment of phylogenetic relationships and population status of Gila Trout, Oncorhynchus gilae (Miller)*. Final report, New Mexico Department of Game and Fish Research contract.

INVITED SEMINARS, SYMPOSIA, AND WORKSHOPS

- 2006 SYMPOSIUM: [Keynote Address, oral paper] *Late Neogene biogeography of the Baja California Peninsula: do biotic signatures of vicariance predict geologically cryptic trans-peninsular seaways?* Paleogeography and Paleobiogeography: Biodiversity in Space and Time. Cambridge, UK. April 2006.
- 2005 SYMPOSIUM: [oral paper] *The biogeography of populations, species, and young biotas: what does comparative phylogeography add to a newly emerging, more integrative biogeography?* symposium: What is Biogeography? Biennial meeting of the Systematics Association, Cardiff, Wales (August).
- 2005 WORKSHOP: [oral paper] *Building bridges between phylogeography and phylogenetic biogeography: why and how?* Second conference of the International Biogeography Society, NCTC, WV (January).
- 2004 SYMPOSIUM: [oral paper] *Using molecular approaches to identify biodiversity attributes in the North American aridlands*. Mojave Desert Science Symposium III. Redlands, CA (November).

- 2004 SYMPOSIUM: [oral paper] *Biogeography and biodiversity in the warm deserts of northern Mexico and the southwestern USA*. Riddle, B.R. and D.J. Hafner. VII AMMAC congress (Asociación Mexicana de Mastozoología) symposium on Genetics and Mexican mammals: where are we and where are we headed? Chiapas, MX (November)
- 2004 SYMPOSIUM: [oral paper] *Understanding and improving the phylogeographic link between molecular and organismal biodiversity*. DanBIF Conference on Molecular Biodiversity; Danish Biodiversity Information Facility, Copenhagen, Denmark (March)
- 2003 SYMPOSIUM: [oral paper] *Combining phylogeography and phylogenetic biogeography to investigate vertebrate speciation and biotic assembly in the warm deserts of North America*. Annual Meeting of the Biological Society of Chile, Chile (November)
- 2003 SYMPOSIUM: [oral paper] *Phylogeographic and cladistic biogeographic approaches to understanding biotic histories: working towards a synthesis of perspectives*. International Biogeography Society Inaugural Meeting, Mesquite, NV (January).
- 2001 SEMINAR: [oral paper] Dept. of Biology, Northern Arizona University (Jan 26)
- 2000 WORKSHOP: [invited participant] *Foundations and Future of Biogeography*, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA (October);
- 2000 SYMPOSIUM: [oral paper] *Mammalian biogeography for herpetologists: Late Neogene and Pleistocene vicariance in the assembly of a Peninsular Desert mammal biota*. Riddle, B.R., D.J. Hafner, and J.R. Jaeger. Natural History and Evolution of the Herpetofauna of Southern California and Baja California, 80th Annual Meeting American Society of Ichthyologists and Herpetologists, La Paz, MX (June).
- 2000 SEMINAR: [oral paper] Dept. of Zoology, Brigham Young Univ. (Nov 16)
- 2000 SEMINAR: [oral paper] Dept. of Biology, South. Illinois Univ. (April 29)
- 2000 SEMINAR: [oral paper] Dept. of Biology, Univ. Nevada Reno (Feb 17)
- 1999 SEMINAR: [oral paper] *Reinventing the wheel in North American mammal systematics and biogeography: old questions are new again and more relevant than ever*. Los Angeles County Museum of Natural History (13 Dec).
- 1999 SYMPOSIUM: [oral paper] *Historical assembly of a Great Basin shrub-steppe and desertscrub terrestrial vertebrate biota*. Riddle, B.R., and D.J. Hafner. Great Basin Biological Research Conference, Reno, NV (Oct 14).
- 1999 SYMPOSIUM: [oral paper] *University and Community College System of Nevada and USGS/BRD collaborations*. Riddle, B.R., Mojave Desert Science Symposium, Las Vegas, NV (Feb 27).
- 1998 SYMPOSIUM: [co-convener] *Comparative phylogeography of mammals and the historical assembly of continental mammalian biotas*. Euro-American Mammal Congress, Santiago de Compostela, Spain (July 20-24).
- 1998 SYMPOSIUM: [oral paper] *The assembly of mammalian biotas in regional warm deserts of North America: comparative phylogeography of cactus mice, chaetodipine pocket mice, and Merriams' kangaroo rats*. Riddle, B. R., D. Hafner, and L. Alexander. Euro-American Mammal Congress, Santiago de Compostela, Spain (July 20-24).
- 1998 SYMPOSIUM: [oral paper] *Comparative phylogeography of North American Boreal mammals*. Arbogast, B., and B. R. Riddle. Euro-American Mammal Congress, Santiago de Compostela, Spain (July 20-24).
- 1998 SEMINAR: Dept. Biology, University of Alaska Fairbanks (Nov 13)
- 1998 TUTORIAL LEADER: Dept. Biology. Wake Forest University (March 9-13)
- 1998 SEMINAR: Dept. Biology. Wake Forest University (March 11)

- 1998 SEMINAR: Department of Zoology. University of Washington (April 8)
- 1998 SEMINAR: Dept. of Biology. Boise State University (April 17)
- 1997 WORKSHOP: World Wildlife Fund; *Biodiversity conservation priorities for the Chihuahuan Desert ecoregion complex*, Monterrey MX, 30 Sept.-2 Oct. 1997
- 1997 SEMINAR: Department of Biology. University of California Riverside.
- 1995 SYMPOSIUM: *Practical application of ecosystem management*. Western Division American Fisheries Society. Park City, Utah.
- 1995 SEMINAR. Department of Biology. New Mexico State University.
- 1994 SYMPOSIUM: *Evaluating health at the landscape level*. First International Symposium on Ecosystem Health and Medicine. Ottawa, Canada.
- 1993 SEMINAR. Department of Biology. University of California Los Angeles.
- 1993 SEMINAR. Department of Zoology. Arizona State University.
- 1993 SYMPOSIUM: *Molecular phylogeny of mammals*. International Theriological Congress VI. Sydney, Australia.
- 1993 SYMPOSIUM: *Mammalian responses to Late Quaternary global climatic change*. International Theriological Congress VI. Sydney, Australia.
- 1993 SYMPOSIUM: *Sceloporus*. Annual Meeting American Society of Ichthyologists and Herpetologists. Austin, Texas. [paper given by D.I. Orange]
- 1992 SYMPOSIUM: *Inventory, monitoring, and assessment*. Biodiversity in managed landscapes. Sacramento, California. [paper given by K.B. Jones]
- 1992 SEMINAR. Philadelphia Academy of Natural Sciences.
- 1991 SEMINAR. Department of Biology. University of Nevada. Reno, Nevada.
- 1991 WORKSHOP: *Desert ecosystems*. Utah State University.
- 1990 PLENARY SESSION: *Shadle Award presentation*. Annual Meeting American Society of Mammalogists. Frostburg, West Virginia.
- 1990 SEMINAR: Department of Biological Sciences. University of Nevada Las Vegas.

CONTRIBUTED ORAL AND POSTER PRESENTATIONS SINCE 1990

2007

- Jaeger, J.R., D.F. Bradford, and B.R. Riddle. *Population structure of the Red-spotted toad, Bufo punctatus, in a naturally fragmented desert landscape*. California/Nevada Amphibian Population Task Force 2007 Annual Meeting, Las Vegas, Nevada [oral].
- Hemmings, V., J.R. Jaeger, M.J. Sredl, M.A. Schlaepfer, R.D. Jennings, C.W. Painter, D.F. Bradford, and B.R. Riddle. *Phylogeography of Rana yavapaiensis and Rana onca: preliminary findings with conservation implications*. Population Task Force 2007 Annual Meeting, Las Vegas, Nevada [oral].

2005

- Spellman, G.M., J. Klicka, and B.R. Riddle. *Genetic consequences of the late Quaternary: lessons from phylogenetic and coalescent analyses of the Mountain Chickadee*. Annual Meeting, Society for the Study of Evolution, Fairbanks [oral].

2004

Marshall, Z.L., B.R. Riddle, and J. Jaeger. *Phylogeography of the desert pocket mouse (Chaetodipus penicillatus) with emphasis on the conservation of C. p. sobrinus*. Annual Meeting, American Society of Mammalogists, Arcata, California [oral].

Jaeger, J., D.F. Bradford, R.D. Jennings, and B.R. Riddle. *Status of the relict leopard frog (Rana onca): Declining amphibian task force meeting*, Reno [oral].

2003

Alexander, L.F., and B.R. Riddle. *Phylogenetics and trends of evolutionary history within the family Heteromyidae*. Annual Meeting, American Society of Mammalogists, Lubbock, Texas [oral].

Riddle, B.R., and D.J. Hafner. *Toward a general model of vertebrate speciation and biotic assembly in the warm deserts of North America*. Annual Meeting, American Society of Mammalogists, Lubbock, Texas [oral].

Mantooth, S.J., B.R. Riddle, L. Kelley, and T. Lawlor. *Population structure and mountain-top phylogeography of the Tamias umbrinus species group in western North America*. Annual Meeting, American Society of Mammalogists, Lubbock, Texas [poster].

2002

Williams, J.A., M.J. O'Farrell, and B.R. Riddle. *Habitat Distribution of Bats in a Riparian Corridor in the Mojave Desert of southern Nevada*. Western Bat Working Group Conference, Durango, CO, December [oral].

Jaeger, J. R., B. R. Riddle, and D. F. Bradford. *Phylogeography of Bufo punctatus: Long-term Evolution within the Warm Deserts of North American and Late Quaternary Range Shifting*. American Society of Ichthyologists and Herpetologists. Kansas City, MS, July [oral].

Alexander, L. F., B. R. Riddle, and D. J. Hafner. *Phylogeography of Dipodomys merriami, including a nested clade analysis of population histories*. Annual Meeting, American Society of Mammalogists, Lake Charles, Louisiana [poster].

Jaeger J. R., B. R. Riddle, and D. F. Bradford. *When a phylogenetic trichotomy makes sense: Phylogeography of Bufo punctatus and the evolution of North American warm deserts*. Western Section of the Wildlife Society Annual Meeting, Visalia, CA, March [oral].

2001

Williams, J.A., M.J. O'Farrell, and B.R. Riddle. *Examination of Occurrence of Bats in Riparian Habitats in Southern Nevada*. Second Great Basin Biological Research Conference, Provo, UT, October [oral].

Alexander, L.F., B.R. Riddle, and D.J. Hafner. *Phylogeography of the Dipodomys merriami species complex*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [oral].

Williams, J.A., M.J. O'Farrell, and B.R. Riddle. *Habitat distribution of bats in a riparian corridor in the Mojave Desert of southern Nevada*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [oral].

Micone, K.D. and B.R. Riddle. *Demographics of the desert pocket mouse, Chaetodipus penicillatus sobrinus in an isolated, relic population*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [poster].

- Mantooth, S.J., B.R. Riddle, and D.J. Hafner. *Systematics of the antelope ground squirrels (Ammospermophilus) and phylogeography of the A. leucurus species group*. Annual Meeting, American Society of Mammalogists, Missoula, MT, June [poster].
- Kelley, L.A., and B.R. Riddle. *Is Palmer's chipmunk (T. palmeri) a distinct evolutionarily significant unit (ESU) within the Uinta chipmunk (T. umbrinus) species group?* Annual Meeting, American Society of Mammalogists, Missoula, MT, June [poster].
- Jaeger, J.R., B.R. Riddle, R.D. Jennings, and D.F. Bradford. *Evidence for phylogenetically distinct leopard frogs (Rana onca) from the border region of Nevada, Utah, and Arizona*. Annual Meeting, Wildlife Society, Western Section, Sacramento, CA, February [oral].
- Bradford, D.F., A.C. Neale, M.S. Nash, D.W. Sada, J.R. Jaeger, and B.R. Riddle. *Habitat patch occupancy by the red-spotted toad (Bufo punctatus) in a naturally fragmented, desert landscape*. Annual Meeting, Wildlife Society, Western Section, Sacramento, CA, February [oral].
- 1999
- Jaeger, J.R., B.R. Riddle, R.D. Jennings, and D.F. Bradford. *Evidence supporting the recognition of Rana onca in northwestern Arizona and southern Nevada*. Phoenix, AZ [oral]
- Riddle, B.R., D.J. Hafner, and L.F. Alexander. *Phylogeography of the Peromyscus eremicus species-group: cryptic lineages, paraphyletic species, and deep-history biogeography in North American deserts*. 79th Annual Meeting, American Society of Mammalogists, Seattle, WA, June [oral]
- Alexander, L.F., B.R. Riddle, T.L. Best, and D.J. Hafner. *Phylogeny and biogeography of the Dipodomys spectabilis species-group*. 79th Annual Meeting, American Society of Mammalogists, Seattle, WA, June [oral]
- Jaeger, J.R., B.R. Riddle, and D.F. Bradford. *Phylogeography of the widely distributed, desert-adapted toad, Bufo punctatus*. ASIH Joint Meeting, State College, PA, June [oral]
- Jaeger, J.R., B.R. Riddle, and R.D. Jennings. *Rediscovering Rana onca, the relict leopard frog: systematic relationships of leopard frogs along the Virgin and Colorado Rivers*. Sonoran Herpetology symposium, Phoenix, AZ, April [oral]
- 1998
- Bradford, D.F., J.R. Jaeger, R.D. Jennings, and B.R. Riddle. *Habitat patch occupancy and conservation genetics of amphibians in the Eastern Mojave Desert*. Western Society of Naturalists, Declining Amphibians Symposium, San Diego, CA [oral, publ. abstracts]
- Orange, D.I., B.R. Riddle, and D.C. Nickle. *Comparative phylogeographic structure in the North American aridland lizard genera Crotaphytus, Gambelia, and Sceloporus*. 1998 Annual Meeting, Southwestern Association of Naturalists, Albuquerque, NM, April [oral, publ. abstracts]
- 1997
- Riddle, B.R. *Did Quaternary environmental fluctuations erase historical biogeographic structure in the North American mammal fauna?* 77th Annual Meeting, American Society of Mammalogists, Stillwater, OK [oral, publ. abstracts]
- Riddle, B.R. *The historical assembly of continental biotas: Quaternary range-shifting, areas of endemism, and historical biogeographic structure in the North American mammal fauna*. Seventh International Theriological Congress, Acapulco, MX [poster, publ. abstracts]

Hunter, K.L., B.R. Riddle, J.L. Betancourt, K.L. Cole, T.R. Van Devender, and W. G. Spaulding. *Ployploidy changes during the past 18,000 14C years in the North American desert shrub Larrea tridentata*. Annual Meeting Ecological Society of America, Albuquerque, NM [oral, publ. abstracts]

1996

Riddle, B.R. *Do current paradigms in historical biogeography apply to continental biotas?: searching for areas of endemism and area-relationships in North American aridlands mammals* Annual Meeting Society for the Study of Evolution, St. Louis, MO [oral]

Orange, D., and B.R. Riddle. *Using molecular phylogenies to infer the historical biogeography of four species of arid-dwelling lizards from the Southwestern United States: testing hypotheses of taxonomic response to Pliocene versus Pleistocene events*. Annual Meeting Society for the Study of Evolution, St. Louis, MO. [oral]

Jones, K.B., B.R. Riddle, J.D. Wickham, and K.H. Riitters. *Regional-scale changes in western North American landscapes over the past 20 million years: a molecular phylogeographic approach*. 11th Annual U.S. Landscape Ecology Symposium, Galveston, TX. [oral, published abstract]

1995

Hunter, K.L., and B.R. Riddle. *Biogeography of North American Larrea--A new story*. Annual Meeting Ecological Society of America. Snow Bird, Utah. [oral]

Jennings, R.D., and B.R. Riddle. Annual Meeting of The Southwest Working Group of the Declining Amphibian Populations Task Force. Phoenix, Arizona. [oral]

Morgan, D.M., R.D. Jennings, and B.R. Riddle. *Determination of species status for leopard frog populations (genus Rana) along the Virgin River Valley using RFLP analysis of PCR-amplified mitochondrial DNA*. Annual Meeting American Chemical Society. San Diego, California. [poster]

1994

Ferrell, C.S., and B.R. Riddle. *Molecular paleoecology of the Perognathus parvus species-group*. Annual Meeting American Society of Mammalogists. Washington D.C. [poster]

Nickle, D.C., and B.R. Riddle. *Molecular tests of phylogenetic and biogeographic structure within the Perognathus fasciatus species-group*. Annual Meeting American Society of Mammalogists. Washington D.C. [oral]

Ferrell, C.S., and B.R. Riddle. *Systematics and biogeography of Perognathus parvus*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [oral]

Nickle, D.C., and B.R. Riddle. *Molecular phylogeographic structure within the Perognathus fasciatus species-group*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [oral]

Orange, D.I., and B.R. Riddle. *Molecular phylogeny and historical biogeography in two species of collard lizards (Crotaphytidae)*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [poster]

Riddle, B.R. *Spatio-temporal domains in the evolution of North American aridlands rodents*. Annual Meeting Southwestern Association of Biologists. Abiquiu, New Mexico. [poster]

Merenlender, A.M., and B.R. Riddle. *The significance of human modified landscape features to conservation: a case study on preservation of abandoned mines as habitat for bats*. Annual Meeting Society of Conservation Biologists. Guadalajara Mexico. [oral]

Orange, D.I., and B.R. Riddle. *Molecular phylogeny and historical biogeography in two species of collared lizards (Crotaphytidae)*. Annual Meeting American Society of Ichthyologists and Herpetologists. Los Angeles, California. [oral]

Hunter, K., and B.R. Riddle. *A cpDNA evaluation of divergence in creosote bush (Larrea) among North American deserts*. Annual Meeting of SSE, SSB, MBE, and ASN. Athens Georgia. [poster]

1993

Riddle, B.R., and T.E. Lee, Jr. *The evolution of North American pocket mice: molecular phylogenetic of Chaetodipus and Perognathus*. Annual Meeting American Society of Mammalogists. Bellingham Washington. [poster]

Lee, T.E., Jr., and B.R. Riddle. *Genetic studies of Chaetodipus penicillatus*. Annual Meeting American Society of Mammalogists. Bellingham Washington. [oral]

Riddle, B.R., D.I. Orange, D. Nickle, and T.E. Lee, Jr. *Comparative phylogeographic structure in North American arid-lands: the effect of spatial scale on levels of congruence among rodents and lizards*. Joint Meeting American Society of Naturalists, Society of Systematic Biologists, and Society for the Study of Evolution. Snowbird Utah. [poster]

Grant, E.C., and B.R. Riddle. *The phylogeny of Empetrichthys and Crenichthys using mitochondrial DNA*. Annual Meeting American Society of Ichthyologists and Herpetologists. Austin Texas. [oral]

Orange, D.I., B.R. Riddle, and T.E. Lee, Jr. *Phylogeographic variation in the mtDNA of desert spiny lizards (Sceloporus magister)*. Annual Meeting Arizona-Nevada Academy of Sciences. Las Vegas Nevada. [oral]

Grant, E.C., and B.R. Riddle. *The phylogeny of Empetrichthys and Crenichthys using mitochondrial DNA*. Annual Meeting Arizona-Nevada Academy of Sciences. Las Vegas Nevada. [oral]

1992

Riddle, B.R., and T.E. Lee, Jr. *A molecular phylogenetic analysis of relationships within and among genera of pocket mice (Chaetodipus and Perognathus)*. Annual Meeting American Society of Mammalogists. Salt Lake City Utah. [oral]

Riddle, B.R., T.L. Yates, and T.E. Lee, Jr. *Telescopes or squirrels? Molecular divergence of the endangered Mount Graham Red Squirrel (Tamiasciurus hudsonicus grahamensis), and thoughts on the concept of endangered species*. Annual Meeting Southwestern Association of Naturalists. Junction Texas. [oral]

1991

Riddle, B.R. *Is there spatial and temporal synchrony in the history of Perognathus (pocket mice) and Onychomys (grasshopper mice) speciation?* Annual Meeting American Society of Mammalogists. Manhattan Kansas. [oral]

Riddle, B.R. *Is there spatial and temporal synchrony in the history of Perognathus (pocket mice) and Onychomys (grasshopper mice) speciation?* Joint Meeting American Society of Naturalists, Society of Systematic Biologists, and Society for the Study of Evolution. Hilo Hawaii. [oral]

GRANTS SINCE EMPLOYMENT AT UNLV

2006 National Science Foundation workshop: *Really big biogeographically-based integrative historical and ecological science: grand collaborative studies of whole biotas*. \$48,625.

- 2006 Bureau of Land Management: *Peer review of Red Rock visitor center interpretive document*. \$12,000.
- 2006 [NDOW gopher project...]
- 2006 [UNLV PIA walking box...]
- 2004 Graduate Fellowship, NSF EPSCoR ACES, for Tereza Jezkova, \$10,000
- 2003 Clark County Multiple Species Habitat Conservation Plan. *Evaluation of the impact of vegetation encroachment on Relict Leopard Frog populations* (co-PI with J.R. Jaeger). \$145,526. 2 years.
- 2002 National Science Foundation. *Collaborative research: Embedded phylogeographic structure within the southern regional deserts of North America*. \$200,000.
- 2000 National Science Foundation. *Center of excellence in conservation genetics*. \$37,274 (my portion of \$499, 766 total) Co-PI with 4 others from UNR.
- 2000 Clark County Adaptive Management Plan Contractors (UNR). *Graduate research: Bat species diversity and habitat preferences along the Muddy River*. \$11,002, 1 year.
- 1999 Clark County MSHCP and USFWS, collaborative with LVVWD, NPS. *Distribution, status, and population genetic structure of the Desert Pocket Mouse, Chaetodipus penicillatus sobrinus, in the Eastern Mojave Desert*. \$45,000.
- 1999 Clark County MSHCP, collaborative with NDOW, USFS, USGS/BRD. *Population surveys and genetic studies of Palmer's Chipmunk (Tamias palmeri)*. \$53,246.
- 1998 Las Vegas Valley Water District. *Rediscovering Rana onca, the Relict Leopard Frog: phylogenetic relationships and population genetic structure of leopard frogs along the Virgin and Colorado Rivers*. \$6260.
- 1998 Nevada TREC program. *A molecular genetic comparison of Great Basin and Rocky Mountain populations of an alpine plant species*. \$12000, collaborative with P. Bagley, GBCC.
- 1998 Nevada TREC program. *Molecular systematics and biogeography of the Fouquieriaceae.*, \$12000, collaborative with M. Hicks, SNCC.
- 1996 National Science Foundation. *Collaborative research: Mammalian phylogeography in regional warm deserts of North America* \$139, 871
- 1996 Environmental Protection Agency. *Collaborative research: A landscape approach to characterizing localized aquatic/riparian habitat suitability and change using remote sensing and GIS techniques*. \$290,000
- 1996 Nevada EPSCoR Teaching and Research—Enhancement and Collaboration. CO-PI with M.A. Ports. *The systematics, ecology, and biogeography of two species of bats that inhabit the Great Basin*. \$6,500
- 1995 Nevada EPSCoR Teaching and Research--Enhancement and Collaboration. Co-PI with M.E. Hicks. *Molecular systematics and biogeography of columnar cacti*. \$7,000.
- 1995 Nevada EPSCoR Teaching and Research--Enhancement and Collaboration. Co-PI with M.A. Ports. *Community composition and function of bats in two ecosystems from northern Nevada*. \$6,800.
- 1995 U.S.Fish and Wildlife Service. *Candidate bat species in southern Nevada*. \$37,474.
- 1994 U.S.Fish and Wildlife Service. *Southern Nevada bat diversity*. \$13,749.
- 1993 National Science Foundation. Co-PI with D. Thompson on dissertation research for E.V. Schmidt. \$9,842
- 1993 Nevada Biodiversity Initiative. *Workshop--Inactive mines as bat habitat*. \$5,000.

- 1993 National Science Foundation, LTER supplemental award to BSR-9107520. *Molecular phylogeography of the Perognathus fasciatus species group: historical and ecological variables controlling interactions among Colorado Plateau and Great Plains xeric biotas*. \$24,000.
- 1993 UNLV. Barrick faculty development travel award. \$500.
- 1992 Various Agencies. Co-PI with R.D. Jennings. *The status of Leopard frogs (Rana pipiens complex) along the Virgin River of Arizona, Nevada, and Utah*. \$25,000.
- 1991 National Science Foundation, Grant BSR-9107520. *Historical ecology of the North American arid-lands rodent guild: molecular phylogenetics and biogeography of Perognathus, Chaetodipus, and Onychomys*. \$184,000.
- 1991 UNLV. Barrick faculty development travel award. \$550.
- 1991 UNLV. Faculty research grant. \$1,500.
- 1991 Nevada Department of Wildlife. Co-PI with P. Brussard. *Desert tortoise genetics*.

HONORS AND AWARDS

- 2005-2006 President, International Biogeography Society
- 2003 President-elect, International Biogeography Society
- 2001 UNLV, *Merit Award*. \$4,500.
- 1999 UNLV, *Merit Award*. \$4,500.
- 1998 UNLV, *Merit Award*. \$5,000.
- 1998 INVITED GUEST SPEAKER: Nevada Wildlife Federation Awards Banquet
- 1997 UNLV, *Merit Award*. \$1,500.
- 1996 UNLV *Merit Award*. \$3,600.
- 1996 University Research Grants and Fellowships Committee Proposal bonus, \$1,000
- 1994 UNLV *Merit Award*. \$2,200.
- 1990 UNM Sigma Xi. *Outstanding doctoral candidate award*
- 1989 American Society of Mammalogists. *Shadle fellowship in mammalogy*. \$3,500.
- 1989 Desert Fishes Council. *Carl L. Hubbs best student paper award*
- 1987 UNM, *Graduate research award*. \$4,000.
- 1987 UNM, Dept. of Biology. *Ph.D comprehensive exam passed with distinction*
- 1985 Honors Society of Phi Kappa Phi. *Elected member*
- 1984 UNM, Dept. of Biology. *Excellent instructor award*.

GRADUATE STUDENT RESEARCH ADVISING

Current Ph.D. candidates

Robert W. Bryson, Jr., Ph.D.

Mexican woodlands biogeography.

Derek Houston, Ph.D.

Phylogeography of red-side shiners in the western North America.

Tereza Jezkova, Ph.D.

Phylogeography and niche evolution of Great Basin mammals.[NSF EPSCoR FELLOW]

Adam Leland, Ph.D.

Phylogeography of asexual whiptail lizards in the western North American deserts.

Stacy Mantooth, Ph.D.

Evolution and biogeography of bats in the genus Pipistrellus.

[IAAS GRAD. FELLOWSHIP; 2002-2003 UNLV PRESIDENT'S GRADUATE FELLOW; 2005-2006 UNLV REGENT'S GRADUATE FELLOW]

Sean Neiswenter, Ph.D.

Biogeography of silky pocket mice in western North American deserts.

Rebecca Carson, Ph.D. [co-advisor; main advisor is J. Klicka]

Connie Herr, Ph.D. [co-advisor; main advisor is J. Klicka]

Marcus Mika, Ph.D. [co-advisor; main advisor is J. Klicka]

Current M.S. or M.A.S. candidates

Victoria Hemmings, M.S.

Rana yavapaiensis population genetics.

Former Ph.D., M.S. or M.A.S. candidates

Lois Alexander, Ph.D.

Evolution and biogeography in the kangaroo rats and Heteromyid rodents. [Ph.D. RECEIVED 2004]

CURRENT POSITION: UNLV RESEARCH POST-DOCTORAL.

Michael Boyles, M.S.

A phylogeographic investigation of the Mountain Chickadee. [M.S. RECEIVED 1994]

CURRENT POSITION: BIOLOGIST, NATIONAL PARK SERVICE.

Carolyn Ferrell, M.S.

Systematics and biogeography of the Great Basin pocket mouse, Perognathus parvus. [M.S. RECEIVED 1997].

CURRENT POSITION: UNKNOWN.

Edward Grant, M.S.

The phylogenetic affinities of Crenichthys and Empetrichthys using mtDNA. [M.S. RECEIVED 1994].

CURRENT POSITION: UNKNOWN.

Sean Harris, M.S.

Rana onca population ecology. [M.S. RECEIVED SPRING 2006]

Kimberly Hunter, Ph.D

Systematics and biogeography of North and South American species of creosote bush (Larrea) using chloroplast DNA. [PH.D RECEIVED SPRING 1996] RECIPIENT OF UNLV FOUNDATION OUTSTANDING DISSERTATION AWARD

CURRENT POSITION: ASSOCIATE PROFESSOR, SALISBURY UNIVERSITY, MD.

Jef Jaeger, Ph.D.

Population structure in Bufo punctatus and evolution of the Bufo punctatus species group and Rana onca. [2002-2003 UNLV PRESIDENT'S GRADUATE FELLOW; 2006 COLLEGE OF SCIENCES OUTSTANDING GRADUATE DISSERTATION]

CURRENT POSITION: NPS PROJECT MANAGER, UNLV PUBLIC LANDS INSTITUTE.

Bruce Jones, Ph.D

Phylogeography of Phrynosoma douglassi and P. platyrhinos: A comparative analysis of

diversification in deserts and woodlands. [PH.D RECEIVED FALL 1995] RECIPIENT OF UNLV FOUNDATION OUTSTANDING DISSERTATION AWARD.

CURRENT POSITION: CHIEF GEOGRAPHER, UNITED STATES GEOLOGICAL SURVEY

Laura Kelley, M.A.S.

Population genetics of Palmers' chipmunk, Tamias palmeri. [M.A.S. RECEIVED 2002]

CURRENT POSITION: UNKNOWN

Chris Lowery, M.S.

Population assessment in Palmers' chipmunk Tamias palmeri. [M.S. RECEIVED 2002]

CURRENT POSITION: USGS-BRD WILDLIFE BIOLOGIST

Zane Marshall, M.A.S.

Distribution and ESU analysis of Chaetodipus penicillatus in the western deserts.

[M.A.S. RECEIVED 2006]

CURRENT POSITION: SOUTHERN NEVADA WATER AUTHORITY

Kerstan Micone, M.S.

Population ecology of Chaetodipus penicillatus in Clark Co., Nevada. [M.S. 2002]

CURRENT POSITION: NEVADA POWER WILDLIFE BIOLOGIST

David Nickle, M.S.

Molecular phylogeographic structure within the Perognathus fasciatus species group.

[M.S. RECEIVED 1997]

CURRENT POSITION: RESEARCH BIOLOGIST UNIVERSITY OF WASHINGTON

David Orange, Ph.D

Comparative phylogeography within and among four species of lizards in western North American deserts (Crotaphytidae.... [PH.D RECEIVED SPRING 1997]

CURRENT POSITION: HIGH SCHOOL MATHEMATICS INSTRUCTOR

Marikay Ramsey, M.S.

Bat species of the Spring Mountains of southern Nevada. [M.S. RECEIVED FALL 1995]

CURRENT POSITION: UNKNOWN

Jason Williams, M.A.S.

Community structure and habitat use by bats in the Upper Moapa Valley, Clark County, Nevada. [M.A.S. RECEIVED SPRING 2001]

CURRENT POSITION: NDOW NON-GAME WILDLIFE BIOLOGIST

Garth Spellman, Ph.D. [co-advisor; main advisor is J. Klicka; PH.D. RECEIVED SPRING 2006]

Jeffrey da Costa, M. S. [co-advisor; main advisor is J. Klicka; M. S. RECEIVED FALL 2006]

COMMITTEE MEMBER FOR GRADUATE STUDENTS (* Graduated)

University of Nevada Las Vegas: E. Schmidt*, J. Jaeger*, K. Bowman*, M. Hamilton*, M. Raunshaugen*, S. Vrooman*, M. Kissell*, R. Knupp, J. Gromny*, T. DelVecchio, M. Erwin (Geosciences), L. Vetter (Geosciences), D. Fletcher

University of Toronto, Canada: M. Mattern*

University of Alaska Fairbanks: C. Conroy*

University of Nevada Reno: M. Rahn*, C. Wilcox

University of New Mexico: A. Ditto*

Centro de Investigaciones Biológicas del Noroeste: Anahid Gutiérrez Ramos

SERVICE TO PROFESSION

- 2006 Peer review for USFWS, Preble's meadow jumping mouse genetic research reports
- 2006 Review of proposal for 8th edition Cox and Moore Biogeography for Blackwell Press
- 2006 Review of proposal for an edited Alfred Russel Wallace book for University of Chicago Press
- 2006 Review of Red Rock Canyon visitor center design for Bureau of Land Management
- 2005-2007 President, International Biogeography Society.
- 2005 Panel member, Fall Biodiversity Survey and Inventory Panel, National Science Foundation
- 2005 Invited expert review, Nevada Comprehensive Wildlife Conservation Strategy
- 2004-ongoing Editor, Journal of Biogeography.
- 2004-ongoing Member, American Society of Mammalogists Conservation Award Committee
- 2004 Peer review for USFWS, Preble's meadow jumping mouse genetic research reports
- 2003-2005 President-elect, International Biogeography Society.
- 2003 Panel member, Fall Systematic Biology panel, National Science Foundation.
- 2003 Host, Inaugural Meeting (4-8 January 2003), International Biogeography Society.
- 2003 Co-organizer, *Phylogeography and Diversification* symposium, Inaugural Meeting (4-8 January 2003), International Biogeography Society.
- 2001-2003 VP for conferences, International Biogeography Society.
- 2001-2004 Invited participant, 'Breakfast with a scientist', Annual Meeting, American Society of Mammalogists
- 2001-present Member, *Rana onca* species recovery team
- 2000 Founding member, *International Biogeography Society*
- 1999-present Member, Merriam Award Committee, American Society of Mammalogists.
- 1999-present Reviewer of applications for promotion to tenure (2); performance reviews (1); promotion to full professor (1).
- 1999 Participant and discussion leader, USFWS/NNHP Workshop on the biology and conservation of Nevada herpetofauna and mammals.
- 1999-2000 Member, Relict leopard frog working group
- 1999-2000 Member, Amargosa toad working group
- 1998-2001 Associate Editor, Journal of Mammalogy
- 1998-present Member, Great Basin Research Consortium
- 1998-1999 Member, LVVWD Big Springs resources team
- 1997 Reviewer of Mammal species-of-concern components (including 2 half-day meetings with other experts) of *Clark County Multiple Species Habitat Conservation Plan* (I revised a significant portion of the original species list, and my suggestions were generally incorporated into the final draft document now being reviewed for submission to Fish and Wildlife Service).
- 1997 Invited Expert Participant: World Wildlife Fund Workshop: *Biodiversity conservation priorities for the Chihuahuan Desert ecoregion complex*, Monterrey

- MX, 30 Sept.-2 Oct. 1997
- 1997-1998 Symposium organizer: *Comparative phylogeography of mammals and the historical assembly of continental mammalian biotas*, to be held at the European-American Mammal Congress, Santiago de Compostela, Spain, 20-24 July 1998
- 1996 Invited expert: Las Vegas Valley Water District meeting
- 1996-1998 Ad hoc reviewer of Clark County Multiple Species Conservation Plan
- 1994 Editor of mammalian biogeography Special Feature, *Journal of Mammalogy*.
- 1993-94 Scientific coordinator and facilitator of workshop. *Inactive mines as bat habitat: guidelines for research, survey, monitoring, and mine management in Nevada*. University of Nevada Reno.
- 1993 Invited participant, Nevada nongame small mammal interest group. NDOW.
- 1993 Invited participant, Nevada herpetofauna interest group. NDOW. Las Vegas NV
- 1993 Invited participant, Sensitive species scorecard. TNC. Carson City, NV.
- 1993 Invited participant, Spring Mountains research group. USFWS. Carson City, NV
- 1992-1993 Board of Directors member. Arizona-Nevada Academy of Sciences.
- 1992 Molecular systematics and evolution committee. Systematics Agenda 2000.
- 1992 Evolution roundtable for graduate students panel member. ASM, Salt Lake, UT
- 1991-present Reviewer of peer-reviewed research manuscripts for *Evolution*, *Molecular Ecology*, *PNAS*, *Systematic Biology*, *Journal of Mammalogy*, *Southwestern Naturalist*, *Copeia*, *Journal of Biogeography*, *Great Basin Naturalist*, *North American Journal of Fisheries Management*, *Molecular Phylogenetics and Evolution*, *Ecography*, *Mammalian Species Accounts*, *Herpetological Monographs*, *American Naturalist*, *American Midland Naturalist*, *Molecular Ecology*, *Global Ecology and Biogeography*, *Heredity*
- 1991-present Reviewer of research proposals for National Science Foundation, National Geographic Society, U.K. Nat. Env. Res. Council, Smithsonian Institution, Idaho Specific Research Grant Program.
- 1991-1996 Honoraria committee member. American Society of Mammalogists.
- 1991-present Technical sessions chair, various meetings
- 1991 Fall special emphasis panel member, dissertation improvement grants. NSF
- 1991 Spring special emphasis panel member, dissertation improvement grants. NSF
- 1990 Fall special emphasis panel member, dissertation improvement grants. NSF
- 1989-90 Education and graduate students committee member. ASM
- 1989 Consultant, *The Promised Land*. British Broadcasting Corporation.
- 1987 Local committee member. Annual Meeting American Society of Mammalogists. Albuquerque New Mexico.

SERVICE TO UNIVERSITY OF NEVADA LAS VEGAS

- 2006 Invited guest on *Face to Face with Jon Ralston*, KLVX-TV, *Southern Nevada water grab in northern Nevada*.
- 2006 Invited guest on *Face to Face with Jon Ralston*, KLVX-TV, *Weird Science: Darwin vs. Creation in the Classroom*
- 2005-ongoing Member, Walking Box Ranch planning committee
- 2004 co-Chair, Walking Box Ranch task force
- 2003 Chair, Walking Box Ranch task force

2003-present Member, Graduate College Faculty and Student Issues Committee
 2001-2002 Member, Biological Sciences team charged to write the Walking Box Initiative proposal
 2000-2001 Member, Graduate College Program Review Committee
 2000 Member, Internal Peer Review Committee, Leisure Studies Program
 1998-2000 Member, Graduate College Curriculum Committee
 1998-present Member, Graduate Council
 1996-1997 Member, Faculty Senate Program Review Committee
 1993-1998 Designated Radiological Safety Officer Representative, occasionally
 1993 Committee chair, UNLV Graduate College internal review of Chemistry Department graduate programs
 1993 Committee member, UNLV Honors student Gregg Schultz
 1991 Desert Tortoise technical advisory committee member.

SERVICE TO UNLV COLLEGE OF SCIENCE

2006 Science Bowl Symposium presentation (10 February)
 2004-2006 Member, COS Graduate Affairs committee
 2003 College merit committee, teaching sub-committee
 2002 College merit committee, research sub-committee
 2000 College merit committee, research sub-committee
 1999 Science Bowl demonstrations, 5 February.
 1991-93 UNLV honors council member.

SERVICE TO UNLV DEPARTMENT OF BIOLOGICAL SCIENCES

2004-ongoing Development coordinator, Center for Aridlands Biodiversity Research and Education (CABRE) [expected implementation, Spring 2006]
 2002-2006 DBS Associate Chair
 2001-2002 DBS Graduate Admissions Committee chair
 2001 Peer evaluation of BIO 432/632 course materials for Dr. R.M. Winokur
 2000 Recruitment facilitator, Target of opportunity hiring initiative for Dr. Javier Rodriguez
 1999 Member, Aquatic Biologist search committee
 1998-2006 DBS Graduate Coordinator
 1998 Chair, Senior Molecular Biologist search committee [search suspended]
 1996-2003 Elected member, DBS personnel committee
 1995 Lecturer search committee member [appointed during last phase of process].
 1994 Fall semester undergraduate advisor
 1994 UNLV lab tour for Clayton Sellars high school science students
 1995-1998 Space committee member.
 1993-1997 Graduate operations committee member.
 1993-1997 Graduate admissions committee member.
 1992 Co-organizer DBS faculty retreat.
 1991-93 Graduate programs committee member.

SERVICE TO COMMUNITY

- 2002-2004 Member, Board of Directors, Nevada Wilderness Project
- 2003 Testified at invitation from Senator Titus at State of Nevada Assembly in support of SB 358
- 2003 Wrote featured article on development of Red Rock area for Las Vegas Review Journal, April
- 2002 Member: professional advisory committee, Las Vegas Springs Preserve Visitor Center
- 2002 Panel member: 19 March Citizen's Wilderness Forum
- 2002 Signatory and contact: scientist letter to Nevada Senators re: Citizen's Wilderness Proposal
- 2002 Sponsor: 10 October WILD PAC event in Las Vegas
- 2001 Wrote featured article on local wildlife for Las Vegas Review Journal, 5 August
- 2001 Featured local expert, news story in Los Angeles Times
- 2000 Featured local expert, wildfire news story on KNTV, Channel 13
- 2000 Featured expert, New Mexico Museum of Natural History educational video
- 1998 Invited speaker, JASON X project
- 1998 Invited speaker, Nevada Wildlife Federation awards banquet
- 1997-ongoing Bat talks and/or field experiences:
Whitney Young Peoples Library Rainbow reading program
UNLV Continuing Education (offered four times)
National Association of Senior Friends
Tortoise Group
Red Rock Canyon Interpretive Association (offered four times)
Elementary schools: Meadows, Mack, Hoggard, Elaine Wynn, Gilbert Magnet, Whitney, Scottsdale (Arizona), Glendale (Arizona),
- 1997 Feature article in Las Vegas Review-Journal Newspaper, 6 July (reprinted in several newspapers throughout Nevada)
- 1996 Interview and filming of Bat program for Outdoor Nevada
- 1992-1996 UNLV Continuing Education course. *Bats: important, interesting, and unappreciated*. 92, 93, 96
- 1995 Packrat lecture, second grade class at Sunrise Acres school.
- 1994 Bat lecture at Natural History Museum, Halloween safe night.
- 1990-ongoing Frequently provide advice and answer questions on broad range of wildlife issues solicited by Las Vegas residents.

SOCIETY AFFILIATIONS

American Association for the Advancement of Science, American Society of Mammalogists, Society of Systematic Biology, The Society for the Study of Evolution, International Biogeography Society