

ELIZABETH A. HADLY
Curriculum Vitae

EDUCATION

1995 Ph.D. *Integrative Biology*, University of California, Berkeley
 1990 M.S. *Quaternary Science*, Northern Arizona University, Flagstaff
 1981 B.A. *Anthropology, Cum Laude*, University of Colorado, Boulder

PROFESSIONAL EXPERIENCE

2005-present Associate Professor, Department of Biology, Stanford University
 & Associate Professor, by courtesy, Department of Geological and Environmental
 Sciences
 2005-present Research Associate, Museum of Paleontology, University of California, Berkeley
 1998-2005 Assistant Professor, Department of Biological Sciences, Stanford University
 1995-1998 Assistant Research Professor, Department of Biology, Montana State University,
 Bozeman
 1997-1998 Research Associate, Museum of the Rockies, Montana State University, Bozeman
 1992-1994 Graduate Student Instructor, University of California, Berkeley
 1989-1994 Paleocologist, National Park Service, Yellowstone National Park, WY

GRANTS AND AWARDS

2009-2012 National Science Foundation *Population Response to Quaternary Environmental
 Change: Great Basin Lagomorphs as a Case Study* (Lead PI with co-PI D. Grayson,
 Univ Washington)
 2009 Elected Fellow, California Academy of Sciences
 2009 Hoagland Teaching Award, Center for Teaching and Learning, Stanford University,
 Along the Track of the Yellowstone Hotspot: Fusion of Science and Art (Lead PI, with
 Co-PI G. Wight, Stanford Univ)
 2008-2010 Environmental Ventures Program, Woods Institute, Stanford University *Forest
 Conversion and the Changing Epidemiological Environment in Southeast Asia* (with
 Co-PIs J. Jones, J. Parsonnet, B. Blackburn)
 2006-2009 National Science Foundation #0545648 (Geology and Paleontology) *Response of
 Mammalian Survivors to the Late Pleistocene Extinction Event, Supplement* (PI)
 2006-2009 National Science Foundation #0719429 (Geology and Paleontology) *Response of
 Mammalian Survivors to the Late Pleistocene Extinction Event* (PI)
 2006-2009 National Science Foundation #0550827 (Biological Oceanography) *Holocene
 Phylochronology and Ecology of the Northern Fur Seal* 0550827 (PI)
 2005-2006 National Science Foundation # 0608505 *Dissertation Research: Assessing the
 Strength of Competition in the Fossil Record* (PI)
 2003-2006 National Science Foundation #0310337 (Geology and Paleontology) *Reconstruction
 of Ecological Habitats Using Strontium Isotopes in Bones* (Lead PI, with Co-PI A.
 Paytan)
 2002-2005 Terman Fellow, Stanford University, *Phylochronology: Is the Present the Key to the
 Past?* (PI)
 2001-2004 National Science Foundation #0108541 (Population Biology), *Inferring Process from
 Pattern: Testing Population Genetic Theory with Temporal Genetic Data* (Lead PI,
 with Co-PI J. Mountain)
 2001 Office of Technology Licensing, Stanford University *Reconstruction of Ecological
 Habitats Using Strontium Isotopes in Bones* (Lead PI, with Co-PI A. Paytan)

- 1996-1998 National Science Foundation #EPS-9640667, *Determinants of Biodiversity, Social, and Economic Patterns in Montane Ecosystems* (with 5 Co-PIs from Montana State University)
- 1998 National Science Foundation Dissertation Research: *A 2400-year Record of Pocket Gophers during Holocene Climatic Change* (Student: M. Kohn, UCLA).
- 1995 National Science Foundation #OSR-9350546, *Determinants of Biodiversity, Social, and Economic Patterns In Montane Ecosystems* (With 4 Co-PIs from Montana State University)
- 1990-1994 National Park Service Research Grant #91-116, *Holocene Mammals of Yellowstone National Park* (PI)
- 1986-1989 National Park Service Research Grant #CAI570-7-8002, *Lamar Cave: Excavation on Yellowstone's Northern Range* (PI)

 INVITATIONS AND WORKSHOPS

- 2009 Invited to give Kristine Bonnevie 2011 lecture on Evolutionary Biology for 200th-year celebration of University of Oslo; Invited to Forum on Ecosystem Management Applying to Ecosystem Adaptability Science, 2010, Sendai, Japan; Invited as Distinguished Lecturer in Geo-genetics, Penn State; Invited Speaker, Short Course, *Conservation Paleobiology: Using the Past to Manage for the Future*, Paleontological Society, Portland, OR; Invited Speaker, International Mammalian Congress, Mendoza, Argentina; Invited Speaker, *The past as the key to the future: palaeo perspectives on climate change*, 10th International Congress of Ecology, Brisbane, Australia; Conservation Genetics Special Speaker, Missoula, MT; Invited Teacher for short course: *Impact of climate change on species, populations and communities*, Uppsala University, Sweden; Invited Speaker, American Genetics Association Symposium *Genetics of Environmental Change*; Invited Speaker, National Center for Biological Sciences, Bangalore, India
- 2008 Co-Organizer, National Academy of Sciences, Sackler Colloquium, *Biogeography, Changing Climates and Niche Evolution*, Irvine CA; National Evolutionary Synthesis Center, *Montane Diversity in Space and Time*; National Evolutionary Synthesis Center, *South American Biodiversity*; National Evolutionary Synthesis Center Summit Review; Darwin Symposium Invited Speaker, Duke University (declined); Invited to Faculty of 1000; Climate Forum Keynote Speaker, Society of Vertebrate Paleontology, Cleveland OH (talk now featured at <http://www.vertpaleo.org/video/Climate/index.cfm>)
- 2007 University of Florida Graduate Student Invited Speaker; NSF-sponsored 'Really Big Biogeography' Workshop, University of Nevada at Las Vegas; University of Nevada at Reno (declined); University of Los Angeles (declined); University of Michigan (declined); Brown University (declined); University of Utah (declined); University of California at Berkeley (declined); *Evolution of Terrestrial Ecosystems*, Smithsonian Institution (declined) Note: declined because teaching abroad in Santiago, Chile
- 2006 National Academy Kavli Frontiers of Science, Irvine; *Phylogeography and Phylogenetics Workshop*, Mathematical Biosciences Initiative, Ohio State University (declined); *Paleontological Mammalian Database Workshop*, Pennsylvania State University (declined); *Okazaki Biology of Extinctions Meeting*, Japan (was not able to attend); *Centre for Genomic Ecology*, Lund University, Sweden
- 2005 *Ecological Response to Climate Change: Scales of Change, Scales of Observation*, Helsinki, Finland; *Convergent Evolution of Holarctic Ecosystems: Response of Mammal Communities* (participant); Invited Speaker, *10th Vertebrate Evolution Conference: Palaeontology and Systematics*, Naracoorte, South Australia; University of California, Santa Cruz (declined)
- 2004 *Workshop on Molecular Methods in Paleobiology*, American Geophysical Union, San Francisco; *Phylogenetics and Community Ecology*, Ecological Society of America;

- Langston Lecturer in Vertebrate Paleontology, Jackson School of Geosciences, University of Texas, Austin; Duke University, Durham, NC; Princeton University, Princeton, NJ; Yale University, New Haven, CT; University of Missouri, St. Louis, MO; University of California, San Diego; *Ecology and Evolution Seminar Series*, University of Chicago, Chicago I; *Earth Sciences Seminar Series*, University of California, Riverside; *Northern Fur Seals Workshop*, University of California, Santa Cruz
- 2003 International Quaternary Association, *Extinction and Speciation During the Quaternary*, University of Nevada, Reno; *Population Genetics for Animal Conservation*, Center for Alpine Ecology, Monte Bondone, Italy; *Ecology, Evolutionary Biology and Behavior Seminar Series*, Michigan State University
- 2002 National Center for Ecological Analysis and Synthesis Workshop *Phylogenies and Community Ecology* University of California, Santa Barbara; National Center for Ecological Analysis and Synthesis Workshop *Body Size in Ecology and Paleoecology* University of California, Santa Barbara
- 2001 National Center for Ecological Analysis and Synthesis Workshop *Habitat and Climate Inference from the Structure of Mammalian Paleocommunities* University of California, Santa Barbara; Special Conference *Mammalian Diversification: From Population Genetics to Biogeography*, Berkeley, California, *Ecology and Evolution Seminar Series*, San Diego State University, San Diego; *Seminar Series*, California Academy of Sciences, Golden Gate Park, San Francisco, CA; National Center for Ecological Analysis and Synthesis Workshop *Body Size in Ecology and Paleoecology* UCSB
- 2000 National Center for Ecological Analysis and Synthesis Workshop *Habitat and Climate Inference from the Structure of Mammalian Paleocommunities* University of California, Santa Barbara; National Center for Ecological Analysis and Synthesis Workshop *Body Size in Ecology and Paleoecology* University of California, Santa Barbara; *Conservation Biology Forum*, University of California, Berkeley; *Friends of Hopkins Marine Station Seminar Series*, Monterey
- 1999 National Center for Ecological Analysis and Synthesis Workshop *Habitat and Climate Inference from the Structure of Mammalian Paleocommunities* UCSB; National Center for Ecological Analysis and Synthesis Workshop *Body Size in Ecology and Paleoecology* UCSB
- 1998 Invited Member, National Research Council, *Committee on Ungulate Management in Yellowstone National Park*, National Academy of Sciences (declined); *Lundelius Symposium on Quaternary Vertebrate Paleontology*, University of Texas, Austin; National Center for Ecological Analysis and Synthesis Workshop *Habitat and Climate Inference from the Structure of Mammalian Paleocommunities* University of California, Santa Barbara; Penrose Conference *Linking Spatial and Temporal Scales in Paleoecology and Ecology* Geological Society of America, Maryland
- 1997 *Evolutionary History and Phylogenetics of Subterranean Rodents* (with J. Cook & E. Lessa), 7th International Theriological Congress, Acapulco, Mexico
- 1996 *The Role of Earth Sciences in Ecosystem Studies: Examples from Mountain Environments*, Geological Society of America Annual Meeting, Denver, CO; *Climatic Fluctuations and the Evolution of Mammalian Communities*, American Quaternary Association 14th Biennial Meeting, Flagstaff, AZ; *How Old is the Yellowstone Ecosystem?*; *Mountains and Minds Lecture Series*, Big Sky, MT; *Origin of Modern Montane Ecosystems*. Mountain Research Center, Montana State University, Bozeman
- 1995 *Frontiers of Science Symposium*, National Academy of Sciences, Irvine, CA
- 1993 *Quaternary Mammals*, 6th International Theriological Congress, Sydney, Australia

PROFESSIONAL AFFILIATIONS

American Genetics Association
 American Geophysical Union
 American Institute of Biological Sciences
 American Quaternary Association
 American Society of Mammalogists
 American Society of Naturalists
 Ecological Society of America
 International Biogeography Association
 Paleontological Society
 Sigma Xi
 Society for the Study of Evolution
 Society of Vertebrate Paleontology

UNIVERSITY SERVICE

2009	Faculty Representative, Academic Council, Stanford University Committee on Committees, Stanford University Woods Institute Environmental Venture Projects Research Co-Chair The Jasper Ridge Advisory Committee, School of Humanities and Sciences Undergraduate Studies Committee, Department of Biology
2008	Faculty Panel Workshop for New and Early Career Stanford Faculty, Center for Teaching and Learning Invited Discussant, Darwin's Legacy, Continuing Studies, Stanford University The Jasper Ridge Advisory Committee, School of Humanities and Sciences Policy Committee, Department of Biology, Stanford University Woods Institute Environmental Venture Projects Research Selection Committee Human Skeletal Remains Oversight Committee, Stanford University
2007	University Committee of Review for Undergraduate Majors The Jasper Ridge Advisory Committee, School of Humanities and Sciences Committee for Graduate Admissions, Department of Biological Sciences Earth Systems Advisory Committee
2006	Committee for Interdisciplinary Graduate Program in Environment and Resources University Committee of Review for Undergraduate Majors The Jasper Ridge Advisory Committee, School of Humanities and Sciences Committee for Graduate Admissions, Department of Biological Sciences Earth Systems Advisory Committee Faculty Panel Workshop for New and Early Career Stanford Faculty, Center for Teaching and Learning
2005	Committee for Interdisciplinary Graduate Program in Environment and Resources Invited Participant, Genetics Departmental Retreat Sept 21 - Friday Sept 23 Celebration of Teaching Panel, Center for Teaching and Learning Department of Geological and Environmental Sciences, Search Committee for Paleobiologist Position Committee for Graduate Admissions, Department of Biological Sciences
2004	Committee for Interdisciplinary Graduate Program in Environment and Resources Committee for Interdisciplinary Graduate Program in Environment and Resources Earth Systems Advisory Committee
2003	Committee for Interdisciplinary Graduate Program in Environment and Resources Earth Systems Advisory Committee
2002	Committee for Graduate Admissions and Policy for Biosciences at Stanford

- Graduate Studies Committee and Master's Subcommittee, Department of Biological Sciences
 Committee for Interdisciplinary Graduate Program in Environment and Resources
 Earth Systems Advisory Committee
- 2001 Committee for Graduate Admissions and Policy for Biosciences at Stanford
 Graduate Studies Committee and Master's Subcommittee, Department of Biological Sciences
 Committee for Interdisciplinary Graduate Program in Environment and Resources
 Earth Systems Advisory Committee
- 2000 Graduate Studies Committee and Master's Subcommittee, Department of Biological Sciences
 Graduate Admissions and Recruiting Committee, Department of Biological Sciences
 Earth Systems Advisory Committee
 Interdisciplinary Environmental Studies Graduate Program Committee
 BioBridge speaker, Department of Biological Sciences
- 1999 Faculty Participant, Stanford University's Committee for the Environment
 Department of Biological Sciences, Seminar Committee
 Departmental Retreat Committee, Department of Biological Sciences
 Molecular Evolutionist Search Committee, Department of Biological Sciences
 President's Fund Event, Stanford University, October 10, 1999
 School of Humanities and Sciences Board of Trustees Dinner, June 10, 1999
- 1998 Graduate Admissions and Recruiting Committee, Department of Biological Sciences
 Graduate Admissions and Recruiting Committee, Department of Biological Sciences

 PROFESSIONAL SERVICE (SINCE 1998)

- 2009 Advisory Council, Center for State of the Parks, National Parks Conservation Association
 National Academy of Sciences Sackler Symposium Organizing Committee
 US National Committee for the International Union for Quaternary Research (INQUA), National Academies
 Associate Editor, *Frontiers of Ecology and the Environment*
 Faculty of 1000
 National Evolutionary Synthesis Center Science Advisory Board
- 2008 National Academy of Sciences Sackler Symposium Organizing Committee
 US National Committee for the International Union for Quaternary Research (INQUA), National Academies
 Nominating Committee for Selection of Editor-in-Chief, *American Naturalist*
 Associate Editor, *Frontiers of Ecology and the Environment*
 Faculty of 1000
 National Evolutionary Synthesis Center Science Advisory Board
- 2007 US National Committee for the International Union for Quaternary Research (INQUA), National Academies
 NESCent Science Advisory Board
 Associate Editor, *Frontiers of Ecology and the Environment*
- 2006 US National Committee for the International Union for Quaternary Research (INQUA), National Academies
 Editorial Advisory Board, *Global Ecology and Biogeography*
 NESCent Science Advisory Board
 Associate Editor, *Frontiers of Ecology and the Environment*
- 2005 US National Committee for the International Union for Quaternary Research (INQUA), National Academies
 Co-Organizer, 2nd Conservation Genetics Symposium, Asilomar
 NESCent Science Advisory Board

2004	National Science Foundation, Population Biology Panel, Washington, D.C Editorial Advisory Board, <i>Global Ecology and Biogeography</i> Associate Editor, <i>Frontiers of Ecology and the Environment</i> US National Committee for the International Union for Quaternary Research (INQUA), National Academies
2003	National Science Foundation, Population Biology Panel, Washington, D.C Editorial Advisory Board, <i>Global Ecology and Biogeography</i>
2002	Co-Convener, <i>Coupled Behavior of Biotic Systems and Climate</i> , American Geophysical Union, San Francisco, CA.
2001	National Science Foundation, Geology and Paleontology Panel, Washington, D.C.
1998-present	Proposal Reviews: National Science Foundation, Royal Society International Joint Projects, National Evolutionary Synthesis Center
1998-present	Manuscript Reviews: <i>American Naturalist</i> , <i>Climatic Change</i> , <i>Current Biology</i> , <i>Ecography</i> , <i>Evolution</i> , <i>Geology</i> , <i>Journal of Archaeological Science</i> , <i>Israel Journal of Zoology</i> , <i>Journal of Mammalogy</i> , <i>Journal of Paleontology</i> , <i>Journal of Theoretical Ecology</i> , <i>Journal of Vertebrate Paleontology</i> , <i>Public Library of Science Genetics</i> , <i>Molecular Ecology</i> , <i>Molecular Phylogenetics and Evolution</i> , <i>Nature</i> , <i>Oecologia</i> , <i>Paleobios</i> , <i>The Holocene</i> Reviewer (Edited Books): <i>Porcupine Cave</i> , <i>Paleontology of Caves</i> , <i>The History of Life</i>
1998-present	Maintain state and federal field collection (vertebrate and paleontological specimen) permits for California, Idaho, Nevada, Wyoming, Oregon, Montana, and Yellowstone National Park; Animal Care and Use Protocols

SELECTED OUTREACH ACTIVITIES

2009	Lead Stanford University Travel-Study expedition to Mt. Kilimanjaro, Africa
2008	Invited Speaker, Professional Women's Association, Santiago, Chile Research Highlighted in popular press (ABC News, Stanford News, Scientific American, Discover, Science Daily, BBC News, UPI, Discovery News, etc.)
2005	<i>Forum</i> , National Public Radio Interview
2002-2007	Organized and ran Palo Verde Elementary School Science Fair, Palo Alto, CA: 300 participants annually
1998-2008	Guest lectures in Palo Verde Elementary School, J. L. Stanford Junior High School and Gunn High School science classes; laboratory tours for students

PUBLICATIONS—PEER-REVIEWED

- Spaeth PS, Hadly EA, Ceballos G. *In revision*. Bridging macroecology and macroevolution: A new view of body size and range size in mammals. *Public Library of Science One*.
- Pinsky ML, Newsome S, Dickerson B, van Tuinen M, Kennett, D, Ream R, Fang Y, Hadly EA. *In revision*. Refugia and high migration rates buffered *Callorhinus ursinus* from genetic impacts of range contraction and population decline. *Molecular Ecology*.
- O'Keefe K, Hadly EA. *In revision*. Seasonality and extreme climate drives geographic variation in body mass trends in a montane mammal. *J. Biogeography*.
- O'Keefe K, Ramakrishnan U, van Tuinen M, Hadly EA. *In press*. Source-sink dynamics structure a common montane mammal. *Molecular Ecology*.
- Feranec, RS, Hadly EA, Paytan A. *In press*. Isotopes reveal limited effects of middle Pleistocene climate change on the ecology of mid sized mammals. *Quaternary International*.
- Hadly EA, Spaeth PA, Li C. *In press*. Niche conservatism above the species level. *Proceedings of the National Academy of Sciences*.

- Wake DB, Hadly EA, Ackerly. *In press*. Biogeography, changing climates and niche evolution. *Proceedings of the National Academy of Sciences*.
- Ramakrishnan, U & Hadly, EA. *In press*. Invited commentary: Do complex population histories drive higher estimates of substitution rate in phylogenetic reconstructions? *Molecular Ecology*
- 39. Ramakrishnan U, Hadly EA. 2009. Using phylochronology to reveal cryptic population histories: Review and synthesis of four ancient DNA studies. Invited review for *Molecular Ecology* DOI: 10.1111/j.1365-294X.2009.04092.x.
- 38. Feranec RS, Hadly EA, Paytan A. 2009. Stable isotopes reveal seasonal competition for resources between late Pleistocene bison (*Bison*) and horse (*Equus*) from Rancho La Brea, southern California. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 271: 153-160.
- 37. Spaeth PA, Hadly EA. 2009. Tracking ancient gene flow: Post-glacial colonization and secondary contact in *Microtus longicaudus*. *J. Mammalogy* 90(3): 571-584.
- 36. Blois JL, Hadly EA. 2009. Mammalian response to Cenozoic climatic change. Invited review for *Annual Review of Earth and Planetary Sciences* 37:8.1-8.28.
- 35. Blois JL, Feranec RS, Hadly EA. 2008. Environmental influences on spatial and temporal patterns of body size variation in California ground squirrels (*Spermophilus beecheyi*) *J. Biogeography* 35:602-613.
- 34. McMenamin SK, Hadly EA, Wright CK. 2008. Climatic change and wetland desiccation cause amphibian decline in world's oldest national park. *Proceedings of the National Academy of Sciences* 105: 16988-16993.
- 33. Riddle BR, Dawson MN, Hadly EA, Hafner DJ, Hickerson MJ, Mantooth SJ, Yoder AD. 2008 The role of molecular genetics in sculpting the future of integrative biogeography. *Progress in Physical Geography* 32: 173-202.
- 32. van Tuinen M, O'Keefe K, Ramakrishnan U, Hadly EA. 2008. Fire and ice: Genetic structure of the Uinta ground squirrel (*Spermophilus armatus*) across the Yellowstone hotspot. *Molecular Ecology* 17: 1776-1788.
- 31. Bruzgul JE, Hadly EA. 2007. Non-random patterns in the Yellowstone ecosystem: inferences from mammalian body size, order and biogeographical affinity. *Global Ecology and Biogeography* 16: 139-148.
- 30. Feranec RS, Hadly EA, Blois JL, Barnosky AD, Paytan A. 2007. Radiocarbon dates from the Pleistocene fossil deposits of Samwel Cave, Shasta County, California, USA. *Radiocarbon* 49: 117-121.
- 29. Feranec RS, Hadly EA, Paytan A. 2007. Determining landscape use of Holocene mammals using strontium isotopes. *Oecologia* 153: 943-950.
- 28. Newsome SD, Etnier MA, Gifford-Gonzalez D, Phillips DL, van Tuinen M, Hadly EA, Costa DP, Kennett DJ, Guilderson TP, Koch PL. 2007. The shifting baseline of northern fur seal ecology in the northeast Pacific Ocean. *Proc. Nat. Acad. Sci.* 104: 9709-9714.
- 27. Chan YL, Anderson CNK, Hadly EA 2006. Bayesian estimation of the timing and severity of a population bottleneck from ancient DNA. *PLoS Genetics* 2:e59.
- 26. van Tuinen M, Stidham T, Hadly EA. 2006. Tempo and mode of modern bird evolution observed with large-scale taxonomic sampling. *Historical Biology* 18: 205-221.
- 25. Anderson C, Ramakrishnan U, Chan YL, Hadly EA. 2005. Serial SIMCOAL: a program to model population genetic data from multiple populations at multiple points in time. *Bioinformatics* 21: 1733-1734.
- 24. Bruzgul JE, Long W, Hadly EA. 2005. Temporal response of the tiger salamander (*Ambystoma tigrinum*) to 3,000 years of climatic variation. *BMC Ecology* 5:7, 7 pp (online)
- 23. Chan YL, Lacey EA, Pearson, OP, Hadly EA. 2005. Ancient DNA reveals Holocene loss of genetic diversity in a South American rodent. *Biology Letters* 1: 423-42
- 22. McGill BJ, Hadly EA, Maurer BA. 2005. Community inertia of Quaternary small mammal assemblages in North America. *Proceedings of the National Academy of Sciences* 102: 16701-16706.
- 21. Ramakrishnan U, Hadly EA, Mountain JL. 2005. Detecting past population bottlenecks using modern and ancient DNA. *Molecular Ecology* 14: 2915-1922.

20. Hadly EA, Ramakrishnan U, Chan YL, van Tuinen M, O'Keefe K, Spaeth P, Conroy CJ. 2004. Genetic response to climatic change: insights from ancient DNA and phylochronology. *Public Library of Science* 2: e290.
19. Maurer BA, Alroy J, Brown JH, Dayan T, Enquist B, Ernest SKM, Hadly EA, Haskell JP, Jablonski D, Jones KE, Kaufman DM, Lyons SK, Niklas K, Porter W, Roy K, Smith FA, Tiffney B, Willig MR. 2004. Convergence in body size distributions of small-bodied flying vertebrates. *Evolutionary Ecology Research* 6: 783–797.
18. Smith FA, Brown JH, Haskell JP, Lyons SK, Alroy J, Charnov EL, Dayan T, Enquist BJ, Ernest SKM, Hadly EA, Jones KE, Kaufman DM, Marquet PA, Maurer BA, Niklas KJ, Porter WP, Tiffney B, Willig MR. 2004. Similarity of mammalian body size across the taxonomic hierarchy and across space and time. *American Naturalist* 163: 972-691.
17. van Tuinen M, Hadly EA. 2004. Calibration and error in placental molecular clocks: a conservative approach using the cetartiodactyl fossil record. *J. Heredity* 95:200-208.
16. van Tuinen M, Hadly EA. 2004. Error in estimation of rate and time inferred from the early amniote fossil record and avian molecular clocks. *Journal of Molecular Evolution* 59: 267-276.
15. van Tuinen M, Ramakrishnan U, Hadly EA. 2004. Studying the effect of environmental change on biotic evolution: past genetic contributions, current work and future directions. *Philosophical Transactions of the Royal Society of London A* 362: 1-26.
14. Webb DS, Graham RW, Barnosky AD, Bell CJ, Franz R, Hadly EA, Lundelius Jr EL, McDonald HG, Martin RA, Semkin Jr HA, Steadman DW. 2004. Vertebrate Paleontology. *Developments in Quaternary Science* 1:519-53
13. Barnosky AD, Hadly EA, Bell CJ. 2003. Mammalian response to global warming on varied temporal scales. Special Feature *Journal of Mammalogy* 84: 354-368.
12. Ernest SKM, Enquist BJ, Brown JH, Charnov EL, Gillooly JF, Savage VM, White EP, Smith FA, Hadly EA, Haskell JP, Lyons SK., Maurer BA, Niklas KJ, Tiffney B. 2003. Thermodynamic and metabolic effects on the scaling of production and population energy use. *Ecology Letters* 6: 990-995.
11. Hadly EA. 2003. The interface of paleontology and mammalogy: past, present and future. *Journal of Mammalogy* 84: 347-353.
10. Hadly EA, van Tuinen M, Chan YL, Heiman K. 2003. Ancient DNA evidence of prolonged population persistence with negligible genetic diversity in an endemic tuco-tuco (*Ctenomys sociabilis*). *Journal of Mammalogy* 84: 403-417.
9. Porder SA, Paytan A, Hadly EA. 2003. Mapping the origin of faunal assemblages using strontium isotopes. *Paleobiology*. 29: 197-204.
8. Barnosky AD, Hadly EA, Maurer BA, Christie MI. 2001. Ecological and evolutionary factors influencing biological diversity: a comparison of temperate terrestrial vertebrate faunas in North and South America. *Conservation Biology* 15: 1-17.
7. Hadly EA, Maurer BA. 2001. Spatiotemporal equivalence of species diversity in montane mammal communities of western North America. *Evolutionary Ecology Research* 3: 477-486.
6. Hadly EA. 1999. Fidelity of terrestrial vertebrate fossils to a modern ecosystem. *Palaeogeography, Palaeoclimatology, Palaeoecology* 149: 395-415.
5. Hadly EA, Kohn MH, Leonard JA, Wayne RK. 1998. A genetic record of population isolation in pocket gophers during Holocene climatic change. *Proceedings of the National Academy of Sciences* 95: 6893-6896.
4. Hadly EA. 1997. Evolutionary and ecological response of pocket gophers (*Thomomys talpoides*) to late-Holocene climatic change. *Biological Journal of the Linnean Society* 60: 277-296.
3. Hadly EA. 1996. Influence of Late-Holocene climate on northern Rocky Mountain mammals. *Quaternary Research* 46: 298-310.
2. Barnosky E Hadly. 1994. Ecosystem dynamics through the past 2000 years as revealed by fossil mammals from Lamar Cave in Yellowstone National Park, USA. *Historical Biology* 8: 71-90.
1. Anderson RS, Smith S, Rothstein D, Murray L, Hadly EA, Force C, Diveley-White S. 1989. The mid- and late-Wisconsin pollen stratigraphy of Potato Lake, Coconino County, Arizona. *Current Research in the Pleistocene* 6: 51-54.

PUBLICATIONS—ABSTRACTS AND ORAL PRESENTATIONS

2009

101. Hadly EA. 2009. Back to the future: Mammalian responses to climatic change as revealed by ancient genetic data. GeoGenetics Distinguished Speaker, Penn State University.
100. Hadly EA, Barnosky AD. 2009. Vertebrate fossils and the future of conservation biology. Paleontological Society Invited Participant, Portland, Oregon.
99. Hadly EA, Spaeth PA, Li C. 2009. Niche conservatism above the species-level in North American mammals. Society of Vertebrate Paleontology, Bristol, England.
98. Terry RC, Blois JL, Hadly EA. 2009. Spatiotemporal dynamics and the structuring of Holocene small mammal communities in the American west. Society of Vertebrate Paleontology, Bristol, England.
97. Barnosky AD, Hadly EA. 2009. The path to the future: paleontology meets conservation biology. Society of Vertebrate Paleontology, Bristol, England.
96. Hadly EA. 2009. A tale of two species: When the population IS the species. International Mammalogical Society Invited Talk, Mendoza, Argentina.
95. Hadly EA. 2009. Mammalian responses to climatic change as revealed by ancient genetic data. American Genetics Association Invited Talk, Providence, Rhode Island.

2008

94. Blois JL, Hadly EA. 2008. Community change in response to Late Pleistocene and Holocene environmental change. *Biogeography, Changing Climates and Niche Evolution*, National Academy of Sciences Sackler Colloquia, Irvine, CA (poster)
93. McMenamin SK, Hadly EA. 2008. Life cycle lability and niche extension in a tiger salamander: Developmental responses of *Ambystoma tigrinum* to pond habitat variation. *Biogeography, Changing Climates and Niche Evolution*, National Academy of Sciences Sackler Colloquia, Irvine, CA (poster)
92. Hadly EA, Spaeth PA, Cheng L. 2008. Niche conservatism above the species-level. *Biogeography, Changing Climates and Niche Evolution*, National Academy of Sciences Sackler Colloquium, Irvine, CA.
91. Blois JL, Hadly EA. 2008. Small mammal response to the Pleistocene-Holocene transition in northern California. 68th Annual Meeting of the Society of Vertebrate Paleontology, Cleveland, OH.
90. Feranec RS, Hadly EA, Paytan A. 2008. Stable isotopes reveal seasonal competition for resources between late Pleistocene bison (*Bison*) and horse (*Equus*) from Rancho La Brea, southern California. 68th Annual Meeting of the Society of Vertebrate Paleontology, Cleveland, OH.
89. Hadly EA. 2008. Lingering effects of past Holocene climate in forest communities of small mammals in Yellowstone National Park, Wyoming, USA. 68th Annual Meeting of the Society of Vertebrate Paleontology, Cleveland, OH.
88. Blois JL, Hadly EA. 2008. Quaternary fossils from northern California reveal mammalian response to climatic change. Fifth Annual California Climate Change Research Conference, Sacramento, CA.
87. Hadly EA. 2008. Mammalian response to environments of the Cenozoic. Climate Change Forum, 68th Annual Meeting of the Society of Vertebrate Paleontology, Cleveland, OH.
86. McMenamin SK, Wright C, Hadly EA. Climate change, wetland degradation, and amphibian decline in the world's oldest national park. The 93rd ESA Annual Meeting. Milwaukee, WI.
85. Rominger AJ, Hadly EA. 2008. Geographic diffusion of New World bird species: The role of energetics in intercontinental dispersal, vicariance, and diversification. The 93rd ESA Annual Meeting, Milwaukee, WI.
84. Blois JL, Hadly EA. 2007. Spatial and temporal patterns of body size change in California ground squirrels (*Spermophilus beecheyi*), International Biogeography Society Biennial Conference, Tenerife, Canary Islands.

83. Blois JL, Hadly EA. 2007. Preliminary results: Response of mammalian survivors to Pleistocene-Holocene transition in northern California. Society of Vertebrate Paleontology, Austin TX.
82. Bruzgul JE, Hadly EA. 2007. On the importance of regional identity and species characteristics to continental diversity patterns. International Biogeography Society Biennial Conference, Tenerife, Canary Islands.
81. Bruzgul JE, Hadly EA. 2007. The legacy of evolutionary history and regional environment on continental diversity patterns. Ecological Society of America Meetings, San Jose, CA
80. Pinsky ML, Ramakrishnan U, Newsome SD, van Tuinen M, Hadly EA. 2007. Using ancient DNA to reconstruct pre-exploitation population structure in the northern fur seal, *Callorhinus ursinus*, American Fisheries Association Meeting, San Francisco, CA
79. Pinsky ML, Dickerson B, Newsome S, van Tuinen M, Ream R, Hadly EA. 2007. Using ancient DNA to reconstruct population structure in the northern fur seal, *Callorhinus ursinus*. Evolution Meeting, Christchurch, New Zealand.
78. Spaeth PA, Hadly EA. 2007. Competition between *Microtus montanus* and *M longicaudus* in the modern and Holocene Greater Yellowstone Ecosystem. Ecological Society of America Meetings, San Jose, CA
77. Bruzgul JE, Hadly EA. 2006. The influence of scale on body size and feeding guild turnover in North American mammals. Ecological Society of America meeting, Knoxville, TN
76. Bruzgul JE, Hadly EA. 2006. The influence of scale on body size and feeding guild turnover in North American mammals. American Society of Mammalogists, Amherst MA
75. Bruzgul JE, Hadly EA. 2006. Assembly of the Yellowstone Species Pool and Implications for Regional Conservation Planning. Conservation Biology Meeting, San Jose, CA.
74. Hadly EA. 2006. Are Rare Species Doomed? A Paleontological Perspective on Extinction. Society of Vertebrate Paleontology, Montreal, Canada.
73. Hadly EA. 2006. Are Rare Species Doomed? Insights from the Quaternary Record. American Quaternary Association, Bozeman, MT
72. Spaeth PA, Hadly EA. 2006. Using Experiments to Examine the Ecological Interactions in the Fossil Record. American Quaternary Association, Bozeman, MT.
71. Spaeth PA, Hadly EA. 2006. How do congeners co-exist? A genetic, morphological, and experimental analysis of sympatric species of *Microtus*. Ecological Society of America meeting, Knoxville, TN
70. Blois JL, Hadly EA. 2006. Response of ground squirrels (*Spermophilus beecheyi*) to the last 20,000 years of environmental variation. Society of Vertebrate Paleontologists Annual Meeting, Montreal, Canada.
69. Hadly EA, Blois JL. 2006. Climate Change Impacts on Ecosystem Structure: Lessons from Paleoecology, California Climate Change Research Conference, Sacramento, CA.
68. Bruzgul JE, Hadly EA. 2005. Regional Effects on the Assembly of the Yellowstone Mammalian Species Pool, Ecological Society of American Meeting, Montreal, Canada
67. Bruzgul JE, Hadly EA. 2005. Regional Effects on the Yellowstone mammalian species pool. Eighth Biennial Conference on the Greater Yellowstone Ecosystem, Greater Yellowstone Public Lands: A Century of Discovery, Hard Lessons, and Bright Prospects, Mammoth, WY.
66. Feranec RS, Blois JL, Hadly EA. 2005. Preliminary radiocarbon chronology and paleoecological analysis of the small mammals in Samwel and Potter Creek Caves, Shasta County, California, American Geophysical Union, San Francisco, CA
65. Feranec R., Hadly EA, Paytan A. 2005. Mammalian resource use stability across glacial-interglacial cycles during the Pleistocene in Colorado, Society of Vertebrate Paleontology, Phoenix, AZ
64. Hadly EA. 2005. Late-Holocene climatic change and phylochronology of common small mammals from temperate ecosystems of North and South America. 10th Conference on Australasian Vertebrate Evolution Palaeontology and Systematics and Quaternary Extinctions Symposium Naracoorte, South Australia.

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62. Spaeth PA, Hadly EA. 2005. Assessing the strength of competition in the fossil record. 10th Conference on Australasian Vertebrate Evolution Palaeontology and Systematics and Quaternary Extinctions Symposium, Naracoorte, South Australia.
61. Spaeth PA, Hadly EA. 2005. Detecting ancient gene flow: Phylochronology of *Microtus longicaudus*. Second Bi-Annual Conservation Genetics Symposium, Asilomar, CA
60. van Tuinen M, O'Keefe K, Hadly EA. 2005. Ancient DNA reveals dynamic genetic structure in a montane ground squirrel. Conservation Genetics Conference, Asilomar, CA
59. van Tuinen, M., Bell, C., Conroy, C., and Hadly, E. 2005. Using an exceptional fossil record to test and calibrate rodent molecular clocks, Society of Vertebrate Paleontology, Phoenix, AZ.
58. Bruzgul JE, Hadly EA. 2004. Using beta diversity to define the Greater Yellowstone Ecosystem. Ecological Society of America. Portland, OR.
57. Chan YL, Ramakrishnan U, Pearson OP, Hadly EA. 2004. Tracing of bottleneck: comparative phylochronology of *Ctenomys sociabilis* and *C. haigi* through 8000 years. 84th Annual Meeting of the American Society of Mammalogists, Humboldt State University, Arcata.
56. Hadly EA. 2004. Assessing the genetics of fossil populations: Insights from ancient DNA and phylochronology. 32nd International Geological Congress, Florence, Italy, 20-28 August 2004.
55. Hadly EA, Chan YL, O'Keefe K, van Tuinen M, Ramakrishnan U. 2004. Holocene phylochronology of small mammals: the influence of climate. 7th Ancient DNA Conference, Brisbane, Australia.
54. Hadly EA, McGill BJ, Maurer BA. 2004. Phylogenetic inertia of North American Quaternary small mammal communities. Ecological Society of America. Portland, OR.
53. Hadly EA, Ramakrishnan U, Chan YL, van Tuinen M. 2004. Holocene phylochronology of small mammals: The influence of demography and population genetics. Society for the Study of Evolution, Colorado State Univ., Fort Collins.
52. O'Keefe KB, Hadly EA. 2004. The genetic diversity and structure of *Spermophilus aramatus* populations along an elevational cline. Society for the Study of Evolution, Colorado State University, Fort Collins, CO.
51. O'Keefe KB, Hadly EA. 2004. Does microclimate explain patterns of variation in life history traits of Uinta ground squirrels (*Spermophilus armatus*)? 84th Annual Meeting of the American Society of Mammalogists, Humboldt State University, Arcata, CA.
50. O'Keefe KB, Porter W, Hadly EA. 2004. Biophysical analyses of ground squirrel energetics in different microclimates: Insight into species' response to climatic change. Ecological Society of America. Portland, OR.
49. Ramakrishnan U, Chan YL, Mountain JL, Hadly EA. 2004. Can ancient DNA be used to investigate historical bottlenecks? Effects of sample size, bottleneck size and post-bottleneck recovery on statistical power. 7th Ancient DNA Conference, Brisbane, Australia.
48. Spaeth PA, Hadly EA. 2004. Small mammal community assembly: insights from paleontological and experimental data. 84th Annual Meeting of the American Society of Mammalogists, Humboldt State University, Arcata, CA.
47. Bruzgul JE, Hadly EA. 2003. The influences of climate on changes in life history strategies, body size and abundance in *Ambystoma tigrinum* from a late Holocene fossil record. Society for the Study of Evolution, Chico, CA.
46. Chan Y, Hadly EA, Pearson O. 2003. Tracing a bottleneck: comparative phylochronology of *C. haigi* and *C. sociabilis* through 7000 years. Society for the Study of Evolution, Chico, California.
45. Chan Y, Ramakrishnan U, Pearson O, Hadly EA. 2003. Tracing a bottleneck: comparative phylochronology of *C. haigi* and *C. sociabilis* through 8000 years. American Genetic Association, Conservation Genetics Conference, Front Royal, Virginia.
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43. Hadly EA, Chan Y, van Tuinen M, Mountain JL. 2003. Late-Holocene phylochronology of small mammals in Yellowstone National Park, Wyoming. American Genetic Association, Conservation Genetics Conference, Front Royal, Virginia.

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41. Spaeth PA, Chan Y, Hadly EA. 2003. Ancient gene-flow of the long-tailed vole: Post-glacial colonization of Yellowstone National Park. First Meeting of the International Biogeography Society, Mesquite, Nevada.
40. Spaeth PA, Conroy CJ, Chan Y, Hadly EA. 2003. Biogeographic and genetic origins of the Greater Yellowstone Ecosystem mammalian fauna. 63rd Annual Meeting of the Society of Vertebrate Paleontology, St. Paul, Minnesota.
39. Steele T, Hadly EA. 2003. Paleoecology of small mammals from Waterfall Locality, Yellowstone National Park, Wyoming, USA. 63rd Annual Meeting of the Society of Vertebrate Paleontology, St. Paul, Minnesota.
38. van Tuinen M, Hadly EA. 2003. Digging deeper: a closer look at molecular clock errors. Society for the Study of Evolution, Chico, California.
37. Chan YL, van Tuinen M, Hadly EA. 2002. Using ancient DNA to examine population persistence and genetic diversity in an endemic tuco-tuco (*Ctenomys sociabilis*). *Journal of Vertebrate Paleontology* 22 (Supplement to No. 3): 43A.
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29. Conroy CJ, Hadly EA, van Tuinen M. 2001. Dating taxonomic divergence: the effects of molecular evolutionary rates, phylogeny reconstruction and fossils. *Journal of Vertebrate Paleontology* 21 (Supplement to Number 3): 42A.
28. Hadly EA. 2001. Small mammal population genetics through 3000 years in the northern Rocky Mountains, USA. 8th International Theriological Congress, Abstracts with Programs, Sun City, South Africa.
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19. Hadly EA, Paytan A. 2000. Spatial and temporal mapping of raptor foraging territory in Yellowstone National Park using Sr isotopes. American Geophysical Union, Abstracts with Programs, San Francisco, CA.
18. Hadly EA, Conroy CJ. 1999. Pattern and process of genetic change in pocket gophers. *Journal of Vertebrate Paleontology* 19 (Supplement to No. 3): 49A.
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15. Hadly EA, Maurer BA. 1998. Spatiotemporal dynamics of species diversity in montane mammal communities of western North America. Penrose Conference, Solomon's Island, Maryland.
14. Barnosky AD, Hadly EA, Maurer BA, Christie MI. 1998. Historical constraints on temperate terrestrial vertebrate biodiversity in North and South America. American Quaternary Association, 15th Biennial Meeting, Puerto Vallarta, Mexico.
13. Hadly EA. 1998. Evolutionary and ecological response of mammals to 3000 years of climatic change in Yellowstone National Park, Wyoming, USA. Yellowstone 125th Anniversary Symposium, Bozeman, Montana.
12. Craighead AC, Hadly EA. 1998. Foraging ecology of three sympatric species of raptors in the Lamar Valley of Yellowstone National Park. Yellowstone 125th Anniversary Symposium, Bozeman, Montana.
11. Hadly EA, Barnosky AD, Maurer BA, Christie MI. 1998. Generation and maintenance of temperate terrestrial vertebrate biodiversity in North and South America. Yellowstone 125th Anniversary Symposium, Bozeman, Montana.
10. Barnosky AD, Hadly EA. 1998. Effects of global climate change on mammalian communities: A prehistoric perspective. Yellowstone 125th Anniversary Symposium, Bozeman, Montana.
9. Hadly-Barnosky EA. 1994. Grassland change over 2000 years in northern Yellowstone National Park. In: Plants and their environments: Proceedings of the first biennial conference on the Greater Yellowstone Ecosystem (D. Despain, Ed.), National Park Service Publications.
8. Hadly Barnosky EA. 1994. Does climate induce change in morphologic variation within species? *Journal of Vertebrate Paleontology*, 14 (Supplement to No. 3): 16A.
7. Hadly Barnosky EA. 1994. 2000 years of morphologic variation in Wyoming populations of *Thomomys talpoides*. American Society of Mammalogists 75th Anniversary Meeting, Wash DC.
6. Barnosky AD, Hadly Barnosky EA. 1993. Phylogeography of Miocene insectivores from intermontane basins of the northern Rocky Mountains (abstract). *Journal of Vertebrate Paleontology*, 13 (supplement to No. 3).
5. Hadly Barnosky EA. 1992. Community resilience during the past 2000 years as inferred from fossil mammals in Yellowstone National Park, WY, USA (abstract). *Bulletin of the Ecological Society of America*, 73(2).
4. Hadly EA. 1990. Late Holocene community dynamics in Yellowstone Park (abstract). *Journal of Vertebrate Paleontology*, 10.

3. Hadly EA. 1989. Mammals from Lamar Cave, a paleontological site in Yellowstone National Park, Wyoming: 1987-1988 (abstract). Second Annual Northern Range Conference, Mammoth Hot Springs, Wyoming.
2. Hadly EA. 1988. The prehistory of elk and other fauna from Lamar Cave, Yellowstone National Park, Wyoming: A preliminary report (abstract). First Annual Northern Range Conference, Mammoth Hot Springs, Wyoming.
1. Hadly EA. 1987. Archaeological distribution of obsidian from Obsidian Cliff, Yellowstone National Park, Wyoming (abstract). Special Conference on Obsidian, 41st Annual Museum of Northern Arizona Series in Geology, Flagstaff, Arizona.

PUBLICATIONS—BOOK CHAPTERS, THESES AND REVIEWS

- Blois JL, Hadly EA. In prep. Quaternary fossils from northern California reveal mammalian response to climatic change. Book Title TBD (Eds. T. Root, K Hall)
- McMenamin SK, Hadly EA, Pounds A. In prep. The first extinctions on land. In: Extinction Risk from Climate Change (Hannah L, ed)
- 9. Webb SD, Graham RW, Barnosky AD, Bell CJ, Franz RL, Hadly EA, Lundelius Jr EL, McDonald HG, Martin RA, Semken Jr HA, Steadman DW. 2004. Vertebrate paleontology. Pp: 519-538 in: *The Quaternary Period in the United States* (Gillespie AR, Porter SC, Atwater BF, eds.) *Geological Society of America Publications*. Elsevier Ltd., Amsterdam, The Netherlands, 584 pp.
- 8. Hadly EA. 2001. Review of *Animal Diversity*, 2nd edition. (by Hickman Jr. CP, Roberts LS, Larson A, eds.) *The Quarterly Review of Biology* 76: 95.
- 7. Cook JA, Lessa EP, Hadly EA. 2000. Paleontology, phylogenetic patterns, and macroevolutionary processes in subterranean rodents. In: *The Biology of Subterranean Rodents: Evolutionary Challenges and Opportunities* (Cameron GN, Lacey EA, Patton JL, eds.). Pp. 332-369, University of Chicago Press.
- 6. Hadly EA. 1997. Review of *The Idea of Biodiversity: Philosophies of paradise* (by Takacs D, Johns Hopkins University Press) *The Montana Professor* 7: 30.
- 5. Hadly EA. 1996. Late Holocene mammalian fauna of Lamar Cave and its implications for ecosystem dynamics in Yellowstone National Park, Wyoming. In: *Grazing Study Compendium*, Yellowstone National Park.
- 4. Barnosky AD, Rouse TI, Hadly EA, Wood DL, Keesing FL, Schmidt VA. 1996. Comparison of mammalian response to glacial-interglacial transitions in the middle and late Pleistocene. Pp. 16-33 in: *Paleoecology and Paleoenvironments of Late Cenozoic Mammals: Tributes to the career of C. S. (Rufus) Churcher* (Stewart K, Seymour K., eds.). University of Toronto Press.
- 3. Hadly EA. 1995. Evolution, ecology, and taphonomy of Late-Holocene mammals from Lamar Cave, Yellowstone National Park, Wyoming, USA. Ph.D. dissertation. University of California, Berkeley.
- 2. Hadly EA. 1990. Late Holocene mammalian fauna of Lamar Cave and its implications for ecosystem dynamics in Yellowstone National Park, Wyoming. Master's thesis, Northern Arizona University, Flagstaff.
- 1. Hadly EA. 1989. Holocene mammalian fauna of Lamar Cave, Yellowstone National Park and its implications for ecosystem dynamics. In: *Grazing Influences on Yellowstone's Northern Range: Summaries of research studies* (Singer FJ, ed.), Yellowstone National Park Division of Research, Mammoth Hot Springs, Wyoming

STUDENT ADVISING ACTIVITIES

Postdoctoral Scholars

Chris J. Conroy (1999-2001) now Curatorial Associate, Museum of Vertebrate Zoology, University of California, Berkeley, 2001-present
 Ripan Mahli (2001), now Assistant Professor, University of Illinois at Urbana-Champaign, 2006-present

Marcel van Tuinen (2001-2006), now Assistant Professor, University of North Carolina, Wilmington, 2006-present
 Uma Ramakrishnan (2003-2006), now Assistant Professor, National Centre of Biological Sciences, Bangalore, India, 2006-present
 Robert J. Feranec (2004-2006), now Curator of Pleistocene Vertebrate Paleontology, New York State Museum, Albany, NY, 2006-present
 Seth Newsome (2006), now Postdoctoral Associate, Geophysical Laboratory, Carnegie Institution of Washington DC, 2006-present
 Rebecca Terry (2008-present)

Graduate Students-Primary Advisor

Kim O'Keefe (PhD student, 1999-2007)
 Danielle Ouimette (M. S. student, 2001-present; Co-advised with Adina Paytan, Geology)
 Paula Spaeth (PhD student, 2001-2007)
 Yvonne Chan (PhD student, 2002-2007)
 Judsen Bruzgul (PhD student 2002-2007)
 Jessica Blois (2004-2009)
 Sarah McMenamin (2004-2009)

Graduate Students-Lab Rotations

Kimberly Heiman (1999-2000)
 Anastasia Novakovic (2000-2001)
 Jeannie Stamberger (2001)
 Stephen Porder (2001-02)
 Teresa Steele (1999-2003; PhD student of Richard Klein, Anthropological Sciences)
 Liz Alter (2003-04, 2006-2007)
 Tom Oliver (2003-04)
 Tanya McKittrick (2004)
 Melissa Pespeni (2005-2006)
 Malin Pinsky (2006-2007)
 Kevin Miklaz (2006-2007)
 Brenna Henn (2007-2009)
 Megan Jensen (2008-2009)
 Carolyn Tepolt (2008-2009)
 Marina Oster (2009-present)
 Tom Hata (2009-present)

Undergraduate Honors Students-Primary Advisor

Webb Long (2000-2002)
 Lisa Patel (1999-2001)
 Kaja Rebane (2000-2002)
 Maneesh Kumar (2003-2004)
 Matthew Percy (2006-2007)
 Andrew Rominger (2005-present)
 Ariel Marcy (2008-present)
 Cara Brook (2008-present)
 Allison Stegner (2008-present)

AWARDS TO STUDENTS

Kim O'Keefe—Environmental Protection Agency, STAR Fellowship (2001-2004)
 Yvonne Chan—Environmental Protection Agency, STAR Fellowship (2004-2007), *now postdoctoral scholar at University of Hawai'i*

Paula Spaeth—American Society of Mammalogists Grant-In-Aid, (2004), National Science Foundation Dissertation Improvement Award (2006-2007) *now postdoctoral scholar at National Evolutionary Synthesis Center*, now Asst. Prof, Northland College, Wisconsin (2009)

Judsen Bruzgul—AIBS and American Society of Mammalogists Science Intern Fellowship (2005), *now postdoctoral scholar at Woods Environmental Institute, Stanford University*, now AAAS Congressional Fellow (2009)

Sarah McMenamin—National Science Foundation Predoctoral Fellowship Honorable Mention (2006), Sigma Xi Grant-in-Aid of Research (2007), now Postdoctoral Fellow University of Washington

Jessica L. Blois—BICCCA Fellowship, CA Energy Commission's PIEREA (2007-2009), Sigma Xi Grant-in-Aid of Research (2006), NESCent Postdoctoral Fellowship (2009-2011), NSF Postdoctoral Fellowship with J. Williams, University of Wisconsin, Madison (2009)