CATHERINE E. BADGLEY Curriculum Vitae

PERSONAL

Address	Department of Ecology and Evolutionary Biology, University of Michigan,
	1109 Geddes Avenue, Ann Arbor, MI 48109-1079

Telephone 734-763-6448

Email address <u>cbadgley@umich.edu</u>

EDUCATION

1982	PhD., Biology Department, Yale University
1974	M.F.S., Yale School of Forestry and Environmental Studies
1972	B.A. magna cum laude, Geology Department, Radcliffe College (Harvard University)

EMPLOYMENT

2013	Associate Professor, Department of Ecology and Evolutionary Biology, and Residential College, University of Michigan
2007-2013	Assistant Professor, Department of Ecology and Evolutionary Biology, and Residential College, University of Michigan
2004-present	Research Scientist, Museum of Paleontology and Department of Earth and
1992-2004	Environmental Sciences, University of Michigan Associate Research Scientist, Museum of Paleontology and Department of
	Geological Sciences, University of Michigan
1987-2007	Lecturer, Residential College, University of Michigan
1985-1992	Assistant Research Scientist, Museum of Paleontology, University of Michigan
1985-87	Visiting Assistant Professor, Department of Geological Sciences, University of
	Michigan
1982-1985	Postdoctoral fellow, Michigan Society of Fellows and Visiting Assistant Professor, Department of Geological Sciences, University of Michigan

RESEARCH INTERESTS

Biogeography, vertebrate paleontology, paleoecology, taphonomy, sustainable agriculture

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Quaternary Association
Ecological Society of America
International Biogeography Society
The Paleontological Society, Fellow of the Paleontological Society, appointed 2012
Society of Vertebrate Paleontology

	AND TRAINING:	

2012-2013	National Evolutionary Synthesis Center (NESCent). Diversification of North American rodents: Integrating phylogeography with the fossil record (catalyis meeting; PI C. Badgley, co-PI Brett Riddle)
2010-2013	National Science Foundation, REU Site: EDQUE2ST, Enhancing diversity, quality, and understanding of the ecological/evolutionary sciences for tomorrow, \$227,000. (co-PI with John Vandermeer (PI), Josephine Kurdziel)
2010-2013	National Science Foundation, Collaborative Research: Climatic and biotic transformations of Neogene mammalian faunas of Pakistan (Pl C. Badgley and lead institution UM, co-Pl A.K. Behrensmeyer), \$200,000. (with collaborators John Barry, David Pilbeam, Thure Cerling)
2002-08	National Science Foundation, Ecological diversity of Miocene Mammals of Pakistan (Pl C. Badgley, co-Pls John Barry, A. K. Behrensmeyer, Thure Cerling), \$390,000; supplement, \$24,510
1994-96	National Science Foundation, Ecological structure of mammalian faunas i relation to climate, \$50,000; REU Supplement, \$4832
1990-92	National Science Foundation, Mammalian community organization and paleoenvironmental inference, \$74,135
1983-86	National Science Foundation, Dynamics of faunal turnover: Taphonomy and paleoecology in the early Cenozoic history of mammals, \$65,300

FUNDING FOR RESEARCH, TRAINING, AND TEACHING: INTERNAL GRANTS AND AWARDS

2014-15	Third Century Initiative (TLTC) Grant, with Ivette Perfecto Center for Global and Intercultural Study, Global Course Connections Grant, with Ivette Perfecto
2013-14	Literature, Science, and the Arts Instructional Technology Faculty Grant
2011	Office of the Vice President for Research and College of Literature,
	Science and Arts Faculty Grants and Awards
2011	Rackham Graduate School, Spring/summer research partnership
2011	Research grant, ADVANCE Program
2010	Research grant, ADVANCE Program
2010	Office of International Programs, Integrating Study Abroad into the
	Curriculum, with Ivette Perfecto
2009	Public Goods Council, with Kate Mendeloff and Amy Harris
2008	Office of International Programs, Integrating Study Abroad into the
	Curriculum, with Ivette Perfecto
2006	Public Goods Council, with Kate Mendeloff and Amy Harris
2004	Office of International Programs, Integrating Study Abroad into the
	Curriculum, with Ivette Perfecto
2003	Office of the Provost, Global Intercultural Experience for Undergraduates,
	with Ivette Perfecto
1999	Undergraduate Research Opportunity Grant
1999	Center for Learning and Teaching, Interdisciplinary Faculty Associates
	Grant

1999	Center for Learning through Community Service, Kellogg Civic Engagement Grant
1998	Office of Vice President for Research, Lecturer Professional Development
1995	Office of Vice President for Research, Travel to Pakistan
1995	Research funds, University of Michigan Global Change Program
1993	Research funds, University of Michigan Global Change Program
1991	Research funds, University of Michigan Global Change Program

NATIONAL AND INTERNATIONAL SERVICE

2014	Paleontological Society Medal Award Committee, Paleontological Society The Organic Center, Science Advisory Board
2013-present	Editorial Board, Organic Farming (new journal)
2012	Wallace Prize Committee, International Biogeography Society Nominating Committee, Society of Vertebrate Paleontology
2011-present	Board of Editors, Journal of Sustainable Agriculture Financial Oversight Committee, Society of Vertebrate Paleontology
2010-present	Development Committee, Society of Vertebrate Paleontology
2010-2012	Deep-Earth Time Life Observatory Network (DETELON), Executive Committee
2009-2011	Paleontological Society Medal Award Committee, Paleontological Society
2008-2009	Organizing Committee, 9th North American Paleontological Convention
2008-2010	Executive Committee (as Past President), Society of Vertebrate Paleontology
2006-2008	President, Society of Vertebrate Paleontology
2004-2006	Vice-President, Society of Vertebrate Paleontology
2005	National Science Foundation, Review panel, Tree of life Program
2002	Co-organizer with Cynthia Beall, Biodiversity Survival in Modern Habitats,
	Symposium at American Association for the Advancement of Science annual meeting, Boston
2001-2005	Advisory Board, Wild Farm Alliance
2000	Co-organizer with Ivette Perfecto, Seeds in the Winds of Change: A
	Forum on Genetically Engineered Foods, Ann Arbor, Michigan
1998-2002	U.S. National Committee, International Union of Biological Sciences
1998-2002	Scientific Advisory Board, The Land Institute, Salina, Kansas
1996-2001	Secretary, Society of Vertebrate Paleontology
1995	Co-editor with A. K. Behrensmeyer, Long Records of Continental
	Ecosystems: Paleogene of Wyoming-Montana and Neogene of Pakistan-
	special issue of Paleogeography, Paleoclimatology, Paleoecology
1994-96	Co-chair, Membership Committee, Society of Vertebrate Paleontology
1992	Co-organizer with A. K. Behrensmeyer, Long Records of Land Biotas:
	A Comparison of Wyoming-Montana Paleogene and Siwalik Neogene
	Sequences, Symposium, 5th North American Paleontological Convention
1986-1989	Associate Editor, Journal of Human Evolution
1984-1986	Co-editor with Robert O. Whyte, East Asian Tertiary/Quaternary Newsletter,
	Centre of Asian Studies, University of Hong Kong
1984	Co-organizer with Philip Gingerich, Short Course on Mammals,
	Paleontological Society, Geological Society of America Annual Meeting

ACADEMIC SERVICE AT THE UNIVERSITY OF MICHIGAN

2012-2014 2010-2014	Chair, Diversity Committee, Department of Ecology and Evolutionary Biology Faculty advisor, academic minor in Science, Technology, and Society
	(home unit, Residential College); also from 2003-2008
2013-2014	Faculty search committees, Department of Ecology and Evolutionary Biology
2010-2013	Co-director, EDQUE2ST, Enhancing Diversity, Quality, and Understanding
	of the Ecological and Evolutionary Sciences for Tomorrow (NSF-funded Research Experience for Undergraduates), with John Vandermeer and
	Josephine Kurdziel
2010-2012	Executive Committee, Department of Ecology and Evolutionary Biology
2008-2010	Graduate Affairs Committee, Department of Ecology and Evolutionary
	Biology
2003-2010	Program Head, Residential College Science, Technology, and Society
2006	Moderator, Summit on Scientific Integrity, UM Biological Station
2005-2006	Steering Committee, Evolution Theme Semester
2003-2006	Executive Committee, Residential College
2003-2004	Presidential Environmental Steering Committee
2001-2004	Advisory Committee, Nichols Arboretum
2001-2004	Advisory Committee, Program in the Environment
2000-2001	Environmental Science/Studies (design of concentration) Committee
1998-2002	Director, LS&A Environmental Studies Program
1998-2001	Chair, Steering Committee for Environmental Issues and Research on Campus, Office of the Vice President for Research
1996-98	Steering Committee, Environmental Theme Semester
1994-96	Director, Natural History Writer's Project at UM Biological Station

FIELD RESEARCH EXPERIENCE

2012-present	Miocene of Mojave Desert region (Barstow and Cajon Valley), California
2010-11	Amboseli Bone Survey Research Project and related isotope ecology, Kenya
1997	Tibetan uplift, Lanzhou University-University of Michigan, Gansu and Qinghai provinces, China
1990	Paleoecology and stratigraphy, Nihewan Basin, Hebei Province, China
1987-1990	Paleocology and geochronology, Snake River Plain (Neogene), Idaho
1982-1985	Paleoecology and faunal change, University of Michigan Museum of Paleontology Clarks Fork Basin Research (Paleogene), Wyoming
1981-1983	Invited scientist, Lufeng Research Project (Miocene), Yunnan Province, Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China
1975-present	Paleoecology, taphonomy, faunal change, Harvard Peabody Museum- Geological Survey of Pakistan Siwalik Research, Pakistan
1974	Ecology and paleoecology, Koobi Fora Research Project, Kenya

COURSES TAUGHT AT THE UNIVERSITY OF MICHIGAN (*taught in the last three years)

2007-present In Department of Ecology & Evolutionary Biology

Biogeography*

Introduction to Global Change: Science of Sustainability (with George Kling,

James Gleason)*

Topics in Biogeography (graduate seminar)*

1987-present In Residential College

Food, Land, and Society (with Ivette Perfecto)*
Introduction to Food Systems (with Ivette Perfecto)*

World Resources and Global Change

History of Life Field Ecology

Culture and Environment

Big Questions for a Small Planet/Introduction to Environmental Studies

Sustainability and the Campus

The Biodiversity of the United States (mini-course)

The Global Banquet: Paradoxes in the World Food System

Darwin in Performance (with Kate Mendeloff)

1990-1998 Seminars in Honors Program (DeRoy visiting scholars)

Revitalizing Citizen Democracy, with Frances Moore Lappé

Rethinking Agriculture in the Age of Ecology, with Wes Jackson and Donald

Worster

1983-1992 In Department of Geological Sciences

The Ecological Context of Human Evolution (mini-course)

Paleoecology: Reconstruction of Environments and Communities

Introduction to Geology
Faunal Analysis (Seminar)
Mammals and Climate (Seminar)

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INVITED LECTURES, PRESENTATIONS, and WORKING GROUPS

2014	Keynote talk in symposium—Windows into deep time: Dynamics of faunal change in long continental successions, European Association of Vertebrate Paleontologists, 12 th annual meeting, Turin, Italy.
	Keynote talk in symposiumThe Cenozoic assembly of the grassland biome:
	pattern and process in ecosystem evolution, North American Paleontological
	Convention, University of Florida, Gainesville.
2012	Invited speaker, Great Basin mammal diversity over time (symposium),
	American Society of Mammalogists annual meeting, Reno, Nevada
	Department of Geology, University of Oregon, Eugene, Oregon
	Department of Urban Studies and Planning, Wayne State University, Detroit
2011	Geobiology Program, Dartmouth College, Hanover, New Hampshire
	Slepecky Lecture, Honors Program, Syracuse University, Syracuse, New York
2010	Department of Biology, University of New Mexico, Albuquerque, New Mexico
	Program in Interdisciplinary Biological and Biomedical Sciences, University of
	New Mexico, Albuquerque, New Mexico

Invited presentation, International Paleontological Congress III, London, UK.

	Darwin Day Lecture, Ohio University, Athens, Ohio
	Future of Animal Agriculture (conference), Michigan State University, East
	Lansing, Michigan
2009	Department of Environmental Sciences, University of Toledo, Toledo, Ohio
	Metrics for Assessing Global Agriculture (conference), Earth Institute,
	Columbia University, New York
2008	Earth History and Paleobiology, Harvard University, Cambridge,
	Massachusetts
	Organic World Congress. International Federation of Organic Agriculture
	Movements, Modena, Italy.
2007	Museum of Paleontology, University of California, Berkeley
	Earth & Planetary Science Department, University of California, Santa
	Cruz
2006	Future Research Directions in Paleontology, Smithsonian Institution,
0005	Washington, D.C.
2005	Environmental Studies Program, Wesleyan University
2004	Environmental Science Program, Southern Methodist University
0000	Rural Development Conference, Havana, Cuba
2002	AAAS Annual Meeting, Biodiversity survival in modern habitats
2001	(symposium), Boston
2001	58th Annual Conference of Indiana Soil and Water Conservation Districts,
	Debate about Genetically Modified Food, Indianapolis, Indiana
	Human Biology Association, Symposium on "Human dimensions of
	biodiversity," Kansas City, Missouri
	National Center for Ecological Analysis and Synthesis, member of working group on mammalian community structure, Santa Barbara, California
2000	Conference on Farming with the Wild (agriculture and conservation),
2000	sponsored by Foundation for Deep Ecology, Marin County, California
	Walking the Talk: Sustainability as an Educational Challenge and a
	Campus-Wide Responsibility (Conference), Michigan State University
1999	National Center for Ecological Analysis and Synthesis, member of
1000	working group on mammalian community structure, Santa Barbara,
	California
1998	Environmental Semester Faculty Seminar, University of Michigan
	Penrose Conference (Geological Society of America), Linking spatial and
	temporal scales in paleoecology and ecology, Solomon's Island,
	Maryland
	The Land Institute, Dodge Fellows workshop, Matfield Green, Kansas
	National Center for Ecological Analysis and Synthesis, member of working
	group on mammalian community structure, Santa Barbara, California
1997	Mountain Research Center, Montana State University, Bozeman
1993	Department of Geophysical Sciences & Department of Anatomy, University of
	Chicago
1992	Illinois State Museum, Springfield, Illinois
	Department of Geology, University of Minnesota, Minneapolis
	Department of Geology, Southern Methodist University, Dallas
1991	Biology Department, Loyola University, Chicago
1989	Evolutionary Biology, Anthropology, and Earth and Planetary Sciences

	Seminar, Harvard University, Cambridge, Massachusetts
1988	Section of Ecology and Genetics, Brown University, Providence, Rhode Island
1987	Scholar-in-Residence Program, Millersville University, Millersville, Pennsylvania
1986	Scripps Institution of Oceanography, La Jolla, California
1985	New York Academy of Sciences, New York City
1984	Department of Anatomy, University of Chicago
	Geology Department, Grand Valley State College, Michigan
	Zoology Department, University of Wisconsin, Madison
1983	Conference on the Paleoenvironment of East Asia from the Mid-Tertiary,
	University of Hong Kong
	Department of Geological Sciences, University of Michigan
	Youth Symposium, AAAS Annual Meeting, Detroit, Michigan
	Geology Department, Boston University

OUTREACH (selected)

2014	Feeding a hungry planet, Elderwise, Ann Arbor, Michigan.
2013	Feeding a hungry planet: crisis and opportunity, Mindful Eating Coalition,
	Unitarian Universalist Church, Ann Arbor, Michigan
	Food, health, sustainability, University of Michigan Retirees Association, Ann Arbor, Michigan
2012	The Future of Food: 2050, Oct. 24, 2012; panel member, forum on the future of food and agriculture organized by the Center for Science in the Public Interest, Washington, DC
	Organizing committee, Community reads program, Five Healthy Towns, Chelsea, Michigan
	How to feed the world, Adult Learners Institute, Chelsea, Michigan Organic agriculture, Science and skeptics club, Ann Arbor, Michigan Waste in the food system, Interview, WEMU (public radio), Ypsilanti,
	Michigan
2011	Food, health, and sustainability, Chelsea Area Garden Club, Chelsea, Michigan
2010	Organic agriculture, Interview, WEMU (public radio), Ypsilanti, Michigan Mass extinction, Science in 15 minutes, University of Michigan Library, Ann Arbor, Michigan
	Out of the Blue Film about my research on organic agriculture,
	http://www.ootb.tv/episode.php?episode=212∂=1&video=Farm
	Healthy food for all, Glacier Hills Retirement Center, Ann Arbor, Michigan
2009	The challenges of sustainable agriculture, Michigan Envirothon (program For high school students), Ann Arbor, Michigan
	Development, economics, and agriculture, Adult Learners Institute,
	Chelsea, Michigan
	Food Unincorporated, Local Table Program, Matthaei Botanical Garden,
	University of Michigan, Ann Arbor, Michigan
2008	ls a sustainable food system possible?, Pumpkin Festival, Wesleyan
	University, Middletown, Connecticut
2007-2011	Board member, The Agrarian Adventure (local non-profit sponsoring gardens in K-12 schools and associated educational programs), Ann

Arbor, Michigan

2006 Three revolutions in food and agriculture, Ann Arbor Public Library, Ann

Arbor, Michigan

2004 Biodiversity symposium, University of Michigan Exhibit Museum 2003 Living lightly (Sustainability workshop), Michigan Friends Center,

Chelsea, Michigan

Paradoxes in the global food system, Learning in Retirement Program,

University of Michigan, Ann Arbor, Michigan

2002 The Land Institute, Prairie Festival, Salina, Kansas

2001 Northeast Organic Farming Association, Workshop on agriculture and

biodiversity, Randolph, Vermont

2000 Living lightly (Sustainability Workshop), Michigan Friends Center,

Chelsea, Michigan

1999 Michigan Summit on Hazards of Genetically Engineered Foods, Troy,

Michigan

PUBLICATIONS

Articles and book chapters in peer-reviewed publications

2014

Badgley, C., T.M. Smiley and J.A. Finarelli. Great Basin mammal diversity in relation to landscape history. Journal of Mammalogy, in press.

Domingo, S.M., C. Badgley, B. Azanza, D. DeMiguel, M.T. Alberdi. Diversification of mammals from the Miocene of Spain. Paleobiology 40(2), 196-220.

2013

Barry, J.C., A.K. Behrensmeyer, C. Badgley, L.J. Flynn, H. Peltonen, I.U. Cheema, D. Pilbeam, E. Lindsay, S.M. Raza, A.R. Rajpar, M.E. Morgan. The Neogene Siwaliks of the Potwar Plateau and other regions of Pakistan. Pp. 373-399. In X. Wang, L.J. Flynn, M. Fortelius (eds.), Neogene Terrestrial Mammalian Biostratigraphy and Chronology of Asia. Columbia University Press.

Flynn, L.J., E.H. Lindsay, D. Pilbeam, S.M. Raza, M.E. Morgan, J.C. Barry, C. Badgley, A.K. Behrensmeyer, I.U. Cheema, A.R. Rajpar, and N.D. Opdyke. The Siwaliks and Neogene evolutionary biology in South Asia. Pp. 353-372. In X. Wang, L.J. Flynn, M. Fortelius (eds.), Neogene Terrestrial Mammalian Biostratigraphy and Chronology of Asia. Columbia University Press.

Badgley, C. and J.A. Finarelli. Diversity dynamics of mammals in relation to tectonic and climatic history: Comparison of three Neogene records from North America. Paleobiology 39(3): 373-399.

Badgley, C. Modern biodiversity crisis. Pp. 617-634. In MacLeod, N. (ed.), Grzimek's Animal Life Encyclopedia, Extinction (2 vols). Gale.

Domingo, M.S., L. Domingo, C. Badgley, O. Sanisidro, and J. Morales. Resource partitioning among top predators in a Miocene food web.

Proceedings of the Royal Society B 280: 20122138. doi:10.1098/rsbp.2012.2138.

2012 Mates, S.G., I. Perfecto, and C. Badgley. Parasitoid wasp diversity in apple

orchards along a pest-management gradient. Agriculture, Ecosystems and

Environment 156: 82-88.

2011 Rose, P.J., D.L. Fox, J. Marcot, and C. Badgley. Flat mammalian latitudinal diversity gradient following the end-Cretaceous mass extinction in western

North America. Geology 39: 163-166.

2010 Finarelli, J.A. and C. Badgley. Diversity dynamics of Miocene mammals in relation to the history of tectonism and climate. Proceedings of the Royal

Society B 277: 2721-2726.

Badgley, C. Tectonics, topography, and mammalian diversity. Ecography

33: 220-231.

Smith, G.R., C. Badgley, T.P. Eiting, and P. Larson. Geologic history and species diversity gradients in North American freshwater fishes.

Evolutionary Ecology Research 12: 693-726.

Bennington, J.B., W.A. DiMichele, C. Badgley, R.K. Bambach, P.M. Barrett,

A.K. Behrensmeyer, and 26 others. Critical issues of scale in paleoecology.

Palaios 24: 1-4.

Morgan, M.E., A.K. Behrensmeyer, C. Badgley, J.C. Barry, S. Nelson, and D.R. Pilbeam. Lateral variation in carbon isotope ratios as evidence for Miocene habitat gradients in the Siwalik sequence of Pakistan. Geology 37:

103-106.

Qian, H., C. Badgley, and D.L. Fox. The latitudinal gradient of beta diversity

for mammals in North America. Global Ecology and Biogeography 18:

111-122.

2008 Badgley, C., J.C. Barry, M.E. Morgan, S.V. Nelson, A.K. Behrensmeyer,

T.E. Cerling, and D. Pilbeam. Ecological changes in Miocene mammalian record show impact of prolonged climatic forcing. Proceedings of the U.S. National Academy of Sciences 105 (34): 12145-12149. (Selected for Faculty

of 1000 Biology, October 2008)

2007 Badgley, C., J. Moghtader, E. Quintero, E. Zakem, M.J. Chappell, K. Aviles-Vazquez, A. Samulon, and I. Perfecto. Organic agriculture and the

global food supply. Renewable Agriculture and Food Systems 22(2): 86-108.

Blob, R.W. and C. Badgley. Numerical methods for bonebed analysis. Pp. 333-396. In R. Rogers, D. Eberth, and A. Fiorillo, eds., <u>Bonebeds:</u> Genesis, Analysis, and Paleobiological Significance. University of Chicago

Press, Chicago.

2005

Nelson, S., C. Badgley, and E. Zakem. 2005. Microwear in modern squirrels in relation to diet. Palaeontologia Electronica vol. 8 (1) 14A: 15 p, 401 KB; http://palaeo-electronica.org/2005_1/nelson14/issue1_05.htm.

Badgley, C., S.V. Nelson, J.C. Barry, A.K. Behrensmeyer, and T.E. Cerling. Testing models of faunal turnover with Neogene mammals from Pakistan. Pp. 29-46. In D.E. Lieberman, R.J. Smith, and J. Kelley, eds., Interpreting the Past: Essays on Human, Primate, and Mammal Evolution in Honor of David Pilbeam. American School of Prehistoric Research Monographs. Brill Academic Publishers, Inc., Boston.

Behrensmeyer, A.K., C. Badgley, J.C. Barry, M. Morgan, and S.M. Raza. The paleoenvironmental context of Siwalik Miocene vertebrate localities. Pp. 47-62. In D.E. Lieberman, R.J. Smith, and J. Kelley, eds., Interpreting the Past: Essays on Human, Primate, and Mammal Evolution in Honor of David Pilbeam. American School of Prehistoric Research Monographs. Brill Academic Publishers, Inc., Boston.

2003

Badgley, C. The multiple scales of biological diversity. Paleobiology 29: 11-13.

Badgley, C. The farmer as conservationist. American Journal of Alternative Agriculture 18: 206-212.

2002

Barry, J.C., M.E. Morgan, L.J. Flynn, D. Pilbeam, A.K. Behrensmeyer, S.M. Raza, I.A. Khan, C. Badgley, J. Hicks, and J. Kelley. Faunal and environmental change in the Late Miocene Siwaliks of northern Pakistan. Paleobiology Memoir 3: p. 1-71.

2001

Little, M., C. Badgley, C. Beall, M. Balick, L. Munstermann, K. Weiss, T. Bert, and B. Chernoff. 2001. A framework for a program on the human dimensions of biodiversity. Biology International 42: 3-15.

2000

Badgley, C. and D. Fox. Ecological biogeography of North American mammals: Species density and ecological structure in relation to environmental gradients. Journal of Biogeography 27(6): 1437-1468.

1998

Badgley, C. Can agriculture and biodiversity coexist? Wild Earth, 8 (Fall): 39-47.

Badgley, C., W.R. Downs, III, and L.J. Flynn. Taphonomy of small-mammal fossil assemblages from the Middle Miocene Chinji Formation, Siwalik Group, Pakistan. Pp. 145-166 ln Y. Tomida, L.J. Flynn, L.L. Jacobs, eds., Advances in Vertebrate Paleontology and Geochronology, National Science Museum of Japan Monographs, No. 14, Tokyo, Japan.

1995

Badgley, C. and A.K. Behrensmeyer. Preservational, paleoecological, and evolutionary patterns in the Paleogene of Wyoming-Montana and the Neogene of Pakistan. Paleogeography, Paleoclimatology, Paleoecology 115: 319-340.

Badgley, C. and A.K. Behrensmeyer. Two long geological records of continental ecosystems. Paleogeography, Paleoclimatology, Paleoecology 115: 1-11.

Badgley, C., W.S. Bartels, M.E. Morgan, A.K. Behrensmeyer, and S.M. Raza. Taphonomy of vertebrate assemblages from the Paleogene of northwest Wyoming and the Neogene of northern Pakistan. Paleogeography, Paleoclimatology, Paleoecology 115: 157-180.

Morgan, M.E., C. Badgley, G.F. Gunnell, P.D. Gingerich, J. Kappleman, and M.C. Maas. Comparative paleoecology of Paleogene and Neogene mammalian faunas: body-size structure. Paleogeography, Paleoclimatology, Paleoecology 115: 287-317.

1992

Behrensmeyer, A.K. and R.W. Hook, in collaboration with C.E. Badgley, J.A. Boy, R.E. Chapman, P. Dodson, R.A. Gastaldo, R.W. Graham, L.D. Martin, P.E. Olsen, R.A. Spicer, R.E. Taggart, and M.V.H. Wilson. Paleoenvironmental contexts and taphonomic modes. Pp. 15-136. In A. K. Behrensmeyer, W. DiMichele, R. Potts, H.D. Sues, S. Wing, eds., <u>Terrestrial</u> Ecosystems Through Time, University of Chicago Press.

Wing, S. L. and H. D. Sues, in collaboration with B.H. Tiffney, R.K. Stucky, D.B. Weishampel, R.A. Spicer, D. Jablonski, C.E. Badgley, M.V.H. Wilson, and W.L. Kovach. Mesozoic and early Cenozoic terrestrial ecosystems. Pp. 327-416. In A. K. Behrensmeyer, W. DiMichele, R. Potts, H.D. Sues, S. Wing, eds., <u>Terrestrial Ecosystems Through Time</u>, University of Chicago Press.

1991

Burke, R.L., J. Tasse, C. Badgley, S.R. Jones, N. Fishbein, S. Phillips, and M.E. Soulé. Conservation of the Stephens' Kangaroo Rat (*Dipodomys stephensi*): Planning for persistence. Bulletin of the Southern California Academy of Sciences 90: 10-40.

1990

Badgley, C. A statistical assessment of last appearances in the Eocene record of mammals. Geological Society of America, Special Paper 243, Dawn of the Age of Mammals in the northern part of the Rocky Mountain Interior, North America, T.M. Bown and K.D. Rose, eds., pp. 153-167.

Tauxe, L., C.G. Constable, L. Stokking, and C. Badgley. The use of anisotropy to distinguish the origin of characteristic remanence in the Siwalik red beds of northern Pakistan. Journal of Geophysical Research 95 (no. B4): 4391-4404.

Badgley, C. and L. Tauxe. Paleomagnetic stratigraphy and time in sediments: Studies in alluvial Siwalik rocks of Pakistan. Journal of Geology 98: 457-477.

1988

Badgley, C. and P.D. Gingerich. Sampling and faunal turnover in early Eocene mammals. Paleogeography, Paleoclimatology, Paleoecology 63: 141-157.

G.R. Smith, R.F. Stearley, and C. Badgley. Taphonomic bias in fish diversity from Cenozoic floodplain environments. Paleogeography, Paleoclimatology, Paleoecology 63: 263-273.

Badgley, C., Chen W., Qi G., and Han D. Paleoecology of a Miocene, tropical, upland fauna: Lufeng, China. National Geographic Research 4: 178-195.

L. Tauxe and C. Badgley. Stratigraphy and remanence acquisition of a paleomagnetic reversal in alluvial Siwalik rocks of Pakistan. Sedimentology 35: 697-715.

1986

Badgley, C., L. Tauxe, and F.L. Bookstein. Estimating the error of age interpolation in sedimentary rocks. Nature 319: 139-141.

Badgley, C. Taphonomy of mammalian fossil remains from Siwalik rocks of Pakistan. Paleobiology 12: 119-142.

Badgley, C. Counting individuals in mammalian fossil assemblages from fluvial environments. Palaios 1: 328-338.

1985

Badgley, C., J. Kelley, D. Pilbeam, and S. Ward. The paleobiology of South Asian, Miocene hominoids. P. 3-28. In J. R. Lukacs, ed., The People of South Asia: The Biological Anthropology of India, Pakistan, and Nepal. Plenum Press.

Tauxe, L. and C. Badgley. Transition stratigraphy and the problem of remanence lock-in times in the Siwalik red beds. Geophysical Research Letters 11: 611-613.

Badgley, C. Human evolution. Pp. 182-198. In T. W. Broadhead, ed., Mammals: Notes for a Short Course, Studies in Geology 8, Department of Geological Sciences, University of Tennessee, Knoxville, Tennessee.

1984

Badgley, C. The paleoenvironment of South Asian Miocene hominoids. Pp. 796-811. In R.O. Whyte, ed., <u>The Evolution of the East Asian Environment</u>, Vol. II, Centre of Asian Studies, University of Hong Kong.

1980

Pilbeam, D., M. D. Rose, C. Badgley, and B. Lipschutz. Miocene hominoids from Pakistan. Postilla (Yale Peabody Museum of Natural History) 181, 94 p.

Badgley, C. and A.K. Behrensmeyer. Paleoecology of Middle Siwalik sediments and faunas, northern Pakistan. Paleogeography, Paleoclimatology,

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2010

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1995

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1993

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1990

Badgley, C. The ecological structure of mammalian assemblages and paleoenvironmental inference. (Abstracts of papers, Society of Vertebrate Paleontology meeting, October, 1990, Lawrence, Kansas) Journal of Vertebrate Paleontology 10, Supplement to No. 3: 13A-14A.

1989

Badgley, C. Community analysis of Siwalik mammals from Pakistan. (Abstracts of papers, Society of Vertebrate Paleontology meeting, November, 1989, Austin, Texas.) Journal of Vertebrate Paleontology 9, Supplement to No. 3: 11A.

Badgley, C. Simulation of sample-size effects in a faunal turnover of Eocene mammals. (Abstracts of papers, Society of Vertebrate Paleontology meeting, October, 1988, Drumheller, Alberta) Journal of Vertebrate Paleontology 8, Supplement to No. 3: 8A.

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Badgley, C. A quantitative approach to community reconstruction. Abstracts with Programs, Geological Society of America, North-Central Section, Vol. 15, No. 4: 249.

Badgley, C. Faunal quantification of vertebrate fossil assemblages. Abstracts with Programs, Geological Society of America, Annual Meeting, Indianapolis, Vol. 15, No. 6: 519.

POSTDOCTORAL ASSOCIATES

1987

1986

1984

1983

M. Soledad Domingo, 2010-2013

Sherry V. Nelson, 2002-2005, currently Assistant Professor, Anthropology Department, University of New Mexico, Albuquerque

STUDENTS (at the University of Michigan unless otherwise noted)

Doctoral students

Carolina Simao, School of Natural Resources and Environment (committee member)
Katharine Loughney, Department of Earth and Environmental Sciences (faculty advisor)
Jeff Shi, Department of Ecology and Evolutionary Biology (faculty co-advisor), recipient of NSF
Predoctoral Fellowship

Tara M. Smiley, Department of Earth and Environmental Sciences (faculty advisor), recipient of NSF Predoctoral Fellowship

Petr Yaklokev, Department of Earth and Environmental Sciences (committee member) Mariana Valencia Maestre, Department of Ecology and Evolutionary Biology (committee member) Ben Connor Barrie, School of Natural Resources and Environment (committee member) Jen-Pan Huang, Department of Ecology & Evolutionary Biology (committee member) Ethan Hyland, Department of Earth and Environmental Sciences (committee member) Judy Wan, Department of Ecology & Evolutionary Biology (committee member) Jingchun Li, Department of Ecology & Evolutionary Biology (committee member) Amy Nicodemus, Anthropology Department (committee member), graduated 2013 Verónica Hernández Ballarín, Visiting doctoral student, Museo de Ciencias Naturales, Madrid, 2011 Alex Janevski, Department of Geological Sciences (committee member), graduated 2011 Michael D'Emic, Department of Geological Sciences (committee member), graduated 2011 Kathleen M. Smith, Department of Geological Sciences (committee member), graduated 2010 John C. Whitlock, Department of Geological Sciences (committee member), graduated 2010 Hannele Peltonen, Visiting doctoral student, University of Helsinki, 2007 M. Soledad Domingo, Visiting doctoral student, Museo de Ciencias Naturales, Madrid, 2007 Maodu Yan, Department of Geological Sciences (committee member), graduated 2006 Elizabeth Kowalski, Department of Geological Sciences (committee member), graduated 2001 Jonathan Bloch, Department of Geological Sciences (committee member), graduated 2001 David L. Fox, Department of Geological Sciences (committee member), graduated 1999 William Clyde, Department of Geological Sciences (committee member), graduated 1997 James M. Birch, Department of Biology (committee member), graduated 1995 William Bartels, Department of Geological Sciences (committee member), graduated 1987 Gregg Gunnell, Anthropology Department (committee member), graduated 1984

Masters students

Emile Moacdieh, Department of Earth and Environmental Sciences (committee member)
Rachel Cable, Department of Ecology & Evolutionary Biology (faculty co-advisor), graduated 2012
Alexa Unruh, Department of Ecology & Evolutionary Biology (committee member), graduated 2012
Mairin Balisi, Department of Ecology & Evolutionary Biology (faculty advisor), graduated 2011
John M. Berini III, Department of Ecology & Evolutionary Biology (faculty advisor), graduated 2010
Stacy Mates, School of Natural Resources & Environment (faculty co-advisor), graduated 2010
Emily Sluzas, Department of Ecology & Evolutionary Biology (faculty advisor), graduated 2010
Hsunyi Hsieh, School of Natural Resources & Environment (faculty co-advisor), graduated 2006
Rhonda Friberg, Department of Geophysical Sciences, University of Minnesota (committee member), graduated 2006

Lois Roe, Department of Geological Sciences (faculty co-advisor), graduated 2000

Undergraduate students

Molly Moroz, Undergraduate Research Opportunity Program (faculty advisor)

Greg Hanafin, Volunteer research (faculty advisor)

Julia Petty, Honors thesis, Program in the Environment, 2012 (faculty advisor)

Kyle Anderson, Honors thesis, Program in the Environment, 2012 (faculty advisor)

Matthew Hillyer, Directed research, Chemistry Department, 2011-12 (faculty advisor)

Eleanor Bomstein, Thesis, Program in the Environment, 2010 (faculty advisor)

Natasha Beranek, Honors thesis, Anthropology Department, 2006 (faculty advisor)