

CATHERINE E. BADGLEY
Curriculum Vitae

PERSONAL INFORMATION

Address	Department of Ecology and Evolutionary Biology, University of Michigan, 1109 Geddes Avenue, Ann Arbor, MI 48109-1079
Telephone	734-763-6448 (office)
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Orcid ID	orcid.org/0000-0002-2851-1908

EDUCATION

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

EMPLOYMENT

2013-present	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 Environmental Sciences, University of Michigan
1992-2004	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
Society of Vertebrate Paleontology

HONORS AND AWARDS

- 2014 Joseph T. Gregory Award for service to the Society of Vertebrate Paleontology
- 2012 Fellow of the Paleontological Society

FUNDING FOR RESEARCH AND TRAINING: EXTERNAL GRANTS

- 2012-2013 National Evolutionary Synthesis Center (NESCent). Diversification of North American rodents: Integrating phylogeography with the fossil record (catalysis 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)
- 2010-2014 National Science Foundation, Collaborative Research: Climatic and biotic transformations of Neogene mammalian faunas of Pakistan (PI C. Badgley and lead institution UM, co-PI 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 (PI C. Badgley, co-PIs John Barry, A. K. Behrensmeyer, Thure Cerling), \$390,000; supplement, \$24,510
- 1994-96 National Science Foundation, Ecological structure of mammalian faunas in 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

- 2014-2016 Associate Professor Support Fund
- 2014-2015 Third Century Initiative (TLTC) Grant, with Ivette Perfecto
Center for Global and Intercultural Study, Global Course Connections Grant, with Ivette Perfecto
- 2013-2014 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

2016	Senior Editor, Paleobiology
2015-present	Associate Editor, Paleobiology Scientific Advisory Committee, Museo Nacional de Ciencias Naturales, Madrid, Spain Board member, Wild Farm Alliance
2014-present	Paleontological Society Medal Award Committee and Committee on Fellows, The Paleontological Society The Organic Center, Science Advisory Board
2013-present	Editorial Board, Organic Farming (new journal) Member, Less=More coalition (farmers and environmentalists in Michigan)
2012-2014	Wallace Prize Committee, International Biogeography Society
2012-present	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, 9 th 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, 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-

1994-96	special issue of Paleogeography, Paleoclimatology, Paleoecology 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

2015-2018	Associate Chair for the Undergraduate Program, Department of Ecology and Evolutionary Biology
2013-present	Advisory Board, Sustainable Food Systems Initiative
2012-2014	Chair, Diversity Committee, Department of Ecology and Evolutionary Biology
2012-present	Advisory Committee, Matthaei Botanical Gardens and Nichols Arboretum
2010-2014	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, Matthaei Botanical Gardens and 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-present	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	Paleoecology 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: the Science of Sustainability (with George Kling, James Gleason)* Topics in Biogeography (graduate seminar)* Geohistorical approaches to diversification (graduate seminar)*
1987-present	In Residential College Apocalyptic Planet: The Science and Politics of Global Change* 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)

INVITED LECTURES, PRESENTATIONS, and WORKING GROUPS

2015	Invited talk, Academy of Nutrition and Dietetics Food & Nutrition Conference and Expo 2015, Nashville, TN; session title, Biodiversity: Achieving an abundance of wholesome foods from healthy ecosystems
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- Invited talk, International Biogeography Society, annual meeting, Bayreuth, Germany; symposium title, Paleobiogeography: The importance of fossil data to species biogeography, past, present, and future
- 2014 Geobiology/Paleobiology seminar, Harvard University, Cambridge, Mass.
Department of Ecology and Evolutionary Biology, Brown University, Providence, Rhode Island
Keynote talk in symposium—Windows into deep time: Dynamics of faunal change in long continental successions, European Association of Vertebrate Paleontologists, 12th annual meeting, Turin, Italy.
Keynote talk in symposium--The 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, Washington, D.C.
- 2005 Environmental Studies Program, Wesleyan University
- 2004 Environmental Science Program, Southern Methodist University
Rural Development Conference, Havana, Cuba
- 2002 AAAS Annual Meeting, Biodiversity survival in modern habitats (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), 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, 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)

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- 2016 Science Café, Evolution and deep time, with Stephen Smith, hosted by University of Michigan Natural History Museum, Ann Arbor
- 2015 Food Sleuth radio interview, with Melinda Hemmelgarn,
<http://kopn.org/drupal/archive?u=http://kopn.org/a/showrss4x.php?p=fs>
Feeding the world with sustainable agriculture, Fast Food for Thought, University of Michigan, Ann Arbor
Feeding a hungry planet, Fox Run Center, Novi, Michigan
Mountains and biodiversity, University of Michigan Alumni Association, Machu Picchu to the Galapagos
Eating our way to a sustainable food system, University Commons, Ann Arbor, Michigan
- 2014 Feeding a hungry planet, Elderwise class, 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&part=1&video=Farm>
- 2009 Healthy food for all, Glacier Hills Retirement Center, Ann Arbor, Michigan
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 Is 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

- 2016 Badgley, C., T.M. Smiley, and R. Cable. Mountains, climate, and mammals (book chapter for Mountains, Climate, and Biodiversity, C. Hoorn and A. Antonelli, eds). Wiley, in press.
- Badgley, C., Domingo, S.M., J.C. Barry, M.E. Morgan, L.J. Flynn, and D. Pilbeam. Continental gateways and the dynamics of mammalian faunas. *Comptes Rendus Palevol*, in press. <http://dx.doi.org/10.1016/j.crpv.2015.09.004>
- Domingo, S.M., L. Domingo, J. Abuela, A. Valenciano, C. Badgley, J. Morales. Feeding ecology and habitat preferences of top predators from two Miocene carnivore guilds. *Paleobiology*, in press. doi: 10.1017/pab.2015.50.
- 2015 Smiley, T.M., J.M. Cotton, C. Badgley, and T.E. Cerling. Small-mammal isotope ecology tracks climate and vegetation gradients across western North America. *Oikos*, doi: 10.1111/oik.02722.
- Badgley, C., T.M. Smiley, and K. Loughney. Miocene mammal diversity of the Mojave region in the context of Great Basin mammal history. Pp. 34-43 in R.E. Reynolds (ed.), *Mojave Miocene, The 2015 Desert Symposium Field Guide and Proceedings*, California State University Desert Studies Consortium.
- Hyland, E.G., N.D. Sheldon, R. Van der Voo, C. Badgley, and A. Abrajevitch. A new paleoprecipitation proxy based on soil magnetic properties: Implications for expanding paleoclimate reconstruction. *Geological Society of America Bulletin*. doi: 10.1130/B31207.1.
- 2014 Badgley, C., T.M. Smiley and J.A. Finarelli. Great Basin mammal diversity in relation to landscape history. *Journal of Mammalogy* 96(6): 1090-1106.
- 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.
- 2009 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., Bonebeds: 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 In 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., Terrestrial 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., Terrestrial Ecosystems Through Time, 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

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