

CATHERINE BADGLEY  
Curriculum Vitae

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PERSONAL INFORMATION

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Address	Department of Ecology and Evolutionary Biology, University of Michigan, 1105 North University Street, Ann Arbor, MI 48109-1085
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Email address	<a href="mailto:cbadgley@umich.edu">cbadgley@umich.edu</a>
Lab website	<a href="http://sites.lsa.umich.edu/badgley-lab/">http://sites.lsa.umich.edu/badgley-lab/</a>
Orcid ID	<a href="http://orcid.org/0000-0002-2851-1908">orcid.org/0000-0002-2851-1908</a>

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EDUCATION

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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)

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EMPLOYMENT

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2019- 2017-	Director, Residential College, University of Michigan Professor, Department of Ecology and Evolutionary Biology, and Residential College, University of Michigan
2017-	Professor (dry appointment), Department of Earth and Environmental Sciences, University of Michigan
2016-2017	Associate Professor (dry appointment), Department of Earth and Environmental Sciences, University of Michigan
2013-2017	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, 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

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RESEARCH INTERESTS

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Biogeography, vertebrate paleontology, paleoecology, taphonomy, sustainable agriculture, food systems

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

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Ecological Society of America  
 International Biogeography Society  
 The Paleontological Society  
 Society of Vertebrate Paleontology

## HONORS AND AWARDS

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2017	John Dewey Teaching Award, University of Michigan
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

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2018-2021	National Science Foundation, Integrated Earth Systems: Collaborative Research: Integrating tectonics, climate, and mammal diversity, \$308,176. Lead PI, William Holt, Stony Brook University; University of Michigan PI, C Badgley.
2017-2018	Community Foundation of Southeast Michigan, Community Engagement around Food Literacy for All, \$20,000
2017-2022	National Science Foundation, Research Coordination Network: Mammal diversification in relation to dynamic landscapes, \$495,276. PI C. Badgley and lead institution University of Michigan, co-PIs, Edward Davis, Brett Riddle
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

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

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2017-2018	Community Foundation of Southeast Michigan, Community Engagement around Food Literacy for All
2014-2017	Associate Professor Support Fund
2014-2017	Evolving Earth Foundation (for graduate student, K.M. Loughney)
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

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 NATIONAL AND INTERNATIONAL SERVICE
 

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2019	Grant reviews for National Science Foundation, Academy of Finland, Swiss Federal Institute of Technology
2019	Manuscript reviews for Paleobiology, Journal of Biogeography, Science, Proceedings of the U.S. National Academy of Sciences, Nature
2017-2021	Organizer for Research Coordination Network: Mammal diversification in relation to dynamic landscapes (research network of 18 geologists, paleontologists, and systematists)

2018-2019 Associate Editor, Paleobiology  
 2016-2018 Merriam Award Committee, American Society of Mammalogists  
 2016-2018 Senior Editor, Paleobiology  
 2015-2018 Editor, Paleobiology  
 2015-present Scientific Advisory Committee, Museo Nacional de Ciencias Naturales, Madrid, Spain  
 Board member, Wild Farm Alliance  
 2014-2017 Paleontological Society Medal Award Committee and Committee on Fellows, The Paleontological Society  
 The Organic Center, Science Advisory Board  
 2013-present Editorial Board, Organic Farming (journal)  
 Member, Less=More coalition (farmers and environmentalists in Michigan)  
 2012-present Nominating Committee, Gregory Award Committee, Society of Vertebrate Paleontology  
 2012-2014 Wallace Prize Committee, International Biogeography Society  
 2011-2016 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<sup>th</sup> 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- 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, 5<sup>th</sup> 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

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2019-2022	Director, Residential College
2018-2021	Executive Committee, Residential College
2017-present	Scientific Advisory Board, UM Museum of Natural History
2015-2018	Associate Chair for the Undergraduate Program, Department of Ecology and Evolutionary Biology
2017	Participant, LSA Teaching Academy for new faculty
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

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2012-present	Miocene of Mojave Desert region (Barstow, Cajon Valley, El Paso Basin), California
2016-2018	Advisor, Doñana Bone Survey Research, Andalusia, Spain
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 Paleocology and stratigraphy, Nihewan Basin, Hebei Province, China  
 1987-1990 Paleocology and geochronology, Snake River Plain (Neogene), Idaho  
 1982-1985 Paleocology 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 Paleocology, 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 five years)

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2007-present In Department of Ecology & Evolutionary Biology  
 Capstone course (seminar for seniors in EEB major)\*  
 Biogeography\*  
 Introduction to Global Change: the Science of Sustainability (with George Kling)\*  
 Topics in Biogeography (graduate seminar)\*  
 Geohistorical approaches to diversification (graduate seminar)\*

2018 In Program in the Environment (and cross-lists)  
 Food Literacy for All\*

1987-present In Residential College  
 Lessons from Deep Time (first-year seminar)\*  
 Food Literacy seminar\*  
 Alternative Futures in the Michigan Food System\*  
 Apocalyptic Planet: Science and Politics of Global Change (first-year seminar)  
 Food, Land, and Society (with Ivette Perfecto)  
 Introduction to Food Systems (with Ivette Perfecto)  
 World Resources and Global Change (first-year seminar)  
 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
 

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- 2020 Environmental Resilience Institute, Indiana University, Bloomington, Indiana
- 2019 Invited talk, Field Museum of Natural History, Chicago
- 2017 Invited talk, International Biogeography Society, Biannual meeting, Tucson, Arizona; Theme session, Biogeography of southwestern North America Workshop, RCN, Mammal diversification in dynamic landscapes, Dynamic landscapes and mammalian evolution, Seattle, Washington (lead organizer)  
Working group meeting, RCN, Mammal diversification in dynamic landscapes, steering committee meeting, Eugene, Oregon (lead organizer)
- 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  
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, 12<sup>th</sup> 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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- 2020 Elderwise course, Future of global food system, Ann Arbor, Michigan  
Consultant for "Magic School Bus Explores Human Evolution"
- 2019 Elderwise course, Lessons from deep time, Ann Arbor, Michigan
- 2018 Food Literacy for All, University of Michigan course that is open to the public for all lectures (winter term, 2018)
- 2017 Elderwise course, Transforming the Food System, Ann Arbor, Michigan
- 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>  
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 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

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### Articles and book chapters in peer-reviewed publications

- 2019 Blumenthal, S.A., T.E. Cerling, T.M. Smiley, C.E. Badgley, and T.W. Plummer. Isotopic records of climate seasonality in equid teeth. *Geochimica et Cosmochimica Acta* 260: 329-348.
- Stevens, R.D., R.J. Rowe, and C. Badgley. Gradients of mammalian biodiversity through space and time. *Journal of Mammalogy* 100 (3): 1069-1086.
- 2018 Antonelli, A., W.D. Kissling, S.G.A. Flantua, M.A. Bermúdez, A. Mulch, A.N. Muellner-Riehl, H. Kreft, H.P. Linder, C. Badgley, J. Fjeldså, S.A. Fritz, C. Rahbek, F. Herman, H. Hooghiemstra, and C. Hoorn. Geological and climatic influences on mountain biodiversity. *Nature Geoscience* 11: 718-725.
- Vandermeer, J., A. Aga, J. Allgeier, C. Badgley, R. Baucom, J. Blesh, L.F. Shapiro, A.D. Jones, L. Hoey, M. Jain, I. Perfecto, and M.L. Wilson. Feeding Prometheus: An interdisciplinary approach for solving the global food crisis. *Frontiers in Sustainable Food Systems* 2: 39. doi: 10.3389/fsufs.2018.00039
- Badgley, C., T.M. Smiley, and R. Cable. Mountains, climate, and mammals. Pp 201-216 in C. Hoorn, A. Perrigo, and A. Antonelli, eds, Mountains, Climate, and Biodiversity, Wiley Blackwell.
- 2017 Sánchez-Villagra, M.R., G. Aguirre-Fernández, A. Chinsamy-Turan, and C. Badgley. The environmental and socially engaged palaeontologist—

suggestions for actions at conferences and beyond. *Palaeontologia Electronica* 20.3.4E: 1-7.

Berini, J.L. and C. Badgley. Diet segregation in American bison (*Bison bison*) of Yellowstone National Park (Wyoming, USA). *BMC Ecology* 17:27. DOI 10.1186/s12898-017-0137-9.

Loughney, K. M. and C. Badgley. Facies, environments, and fossil preservation in the Barstow Formation, Mojave Desert, California. *Palaios* 32: 396-412.

Badgley, C., T.M. Smiley, E.B. Davis, L.R.G. DeSantis, D.L. Fox, S.B. Hopkins, T. Jezkova, M.D. Matocq, N. Matzke, J.L. McGuire, A. Mulch, B.R. Riddle, V.L. Roth, J.X. Samuels, C.A.E. Strömberg, R. Terry, B.J. Yanites. Biodiversity and topographic complexity: modern and geohistorical perspectives. *Trends in Ecology and Evolution* 32 (3): 211-226.

2016 Domingo, S.M., L. Domingo, J. Abella, A. Valenciano, C. Badgley, J. Morales. Feeding ecology and habitat preferences of top predators from two Miocene carnivore guilds. *Paleobiology* 42 (3). doi: 10.1017/pab.2015.50.

2015 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* 15: 763-779. <http://dx.doi.org/10.1016/j.crpv.2015.09.004>

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/rspb.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:

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- 2005 Badgley, C. Pippa's First Summer (illustrated by Bonnie Miljour). Mitten Press, Ann Arbor, Michigan. (book about bats for middle readers)
- 2001 Badgley, C. and B. Smuts. Course Portfolio: Big Questions for a Small Planet (Report on development of interdisciplinary course, for Center for Research on Learning and Teaching, University of Michigan)
- Badgley, C. Your real destination (essay). In J. Knott and R. Grese, eds., Reimagining Place, Michigan Quarterly Review, XL (No. 1): 20-29.
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#### Abstracts of presentations at meetings

- 2019 Badgley, C., T. Smiley, and K.M. Loughney. Landscape processes and diversity dynamics of North American mammals. Society of Vertebrate Paleontology, annual meeting, Brisbane, Queensland, Australia. Meeting Program and Abstracts, p. 57.
- Hardy, F. and C. Badgley. Tectonic influences on species richness of mammals in the Middle Miocene Dove Spring Formation, California. Geological Society of American, annual meeting, Indianapolis, Indiana.
- Smiley, T.M., A. Bahadori, W.E. Holt, T. Rasbury, and C. Badgley. Basin and Range tectonics drive diversification dynamics in North American mammals. North American Paleontological Convention, Riverside, California.
- Smiley, T.M., R.C. Terry, C. Badgley, A. Bahadori, W.E. Holt, and T. Rasbury. Were mountain passes higher in the Middle Miocene? International Biogeography Society, biennial meeting, Malaga, Spain.
- Antonelli, A., W.D. Kissling, S.G.A. Flantua, A. Perrigo, M.A. Bermúdez, A. Mulch, A.N. Muellner-Riehl, H. Kreft, H.P. Linder, C. Badgley, J. Fjeldså, S.A. Fritz, C. Rahbek, F. Herman, O. Perez-Escobar, H. Hooghiemstra, F. Condamine, L. Lagomarsino, and C. Hoorn. Mountains: the biogeographer's Petri dish. International Biogeography Society, biennial meeting, Malaga, Spain.

- 2018 Smiley, T.M., R.C. Terry, C. Badgley, A. Bahadori, W.E. Holt, and T. Rasbury. Were mountain passes higher in the Middle Miocene? Society of Vertebrate Paleontology, annual meeting, Albuquerque, New Mexico. Meeting Program and Abstracts, p. 217-218.
- Wang, B., M. Zelditch, C. Badgley. Jaw disparity in relation to diet in the Bovidae, with implications for paleoecology. Society of Vertebrate Paleontology, annual meeting, Albuquerque, New Mexico. Meeting Program and Abstracts, p. 235.
- Badgley, C., S.D. Domingo, D.M. Martín-Perea, and J.J. Negro. Gateway to the fossil record: the skeletal assemblage of Doñana National Park (Spain). Society of Vertebrate Paleontology, annual meeting, Albuquerque, New Mexico. Meeting Program and Abstracts, p. 84.
- Domingo, S.D., D.M. Martín-Perea, C. Badgley, and J.J. Negro. The bones of Doñana National Park (Spain): post-mortem modifications in bones and carcasses from a modern Mediterranean ecosystem. International Paleontological Congress V, Paris, France.
- Badgley, C. and T.M. Smiley, Mammal diversity and tectonic history of the Basin and Range. Desert Symposium, Zzyzx, California.
- 2017 Badgley, C., E. Davis, J. Finarelli, B. Riddle, T.M. Smiley, R. Terry, and B.J. Yanites. Mammal diversification across dynamic landscapes: A case study with North American rodents. Geological Society of America, annual meeting, Seattle, Washington. Geological Society of America Abstracts with Programs 49 (6): doi: 10.1130/abs/2017AM-298627.
- Loughney, K.M. and C. Badgley. Taphonomy of mammal fossils in the Barstow Formation (Middle Miocene), Southern California, in relation to facies and paleoenvironments. Geological Society of America, annual meeting, Seattle, Washington. Geological Society of America Abstracts with Programs 49 (6): doi: 10.1130/abs/2017AM-303704.
- Smiley, T.M., M. Moroz, C. Badgley, and T. Cerling. Ecological response to environmental change: Insights from the Miocene small-mammal record of southern California. Geological Society of America, annual meeting, Seattle, Washington. Geological Society of America Abstracts with Programs 49 (6): doi: 10.1130/abs/2017AM-299096.
- Smiley, T.M., C. Badgley, R. Terry, E. Davis, B. Riddle, B. Yanites, J. Finarelli, S. Hopkins. Biodiversity and topographic complexity: modern and geohistorical perspectives. Society for the Study of Evolution, annual meeting, Portland, Oregon.
- Badgley, C., T.M. Smiley, W.E. Holt, A. Bahadoori, and E.T. Rasbury.

- Mammal diversification tracks landscape history in the Great Basin of western North America. International Biogeography Society, biannual meeting, Tucson, Arizona.
- 2016
- Badgley, C., T.M. Smiley, W.E. Holt, and E.T. Rasbury. Great Basin mammal diversity and tectonic history. Society of Vertebrate Paleontology, annual meeting, Salt Lake City, Utah.
- Fox, D.L., T.S. Cicak, and C. Badgley. Ecological biogeography of modern North American rodents in relation to climate and physiography. Society of Vertebrate Paleontology, annual meeting, Salt Lake City, Utah.
- Moroz, M., T.M. Smiley, and C. Badgley. Ecological response of small-mammal assemblages to warming and environmental change over the Miocene Climatic Optimum in southern California. Society of Vertebrate Paleontology, annual meeting, Salt Lake City, Utah.
- Badgley, C. and J. Damuth. Ecological structure of modern mammalian faunas in relation to climate and landscape. American Society of Mammalogists, annual meeting, Minneapolis, Minnesota, Program, p. 154.
- Smiley, T.M., L. McQuarter, and C. Badgley. A geometric-morphometric analysis of dental variation in *Dipodomys ordii* along environmental gradients. American Society of Mammalogists, annual meeting, Minneapolis, Minnesota, Program, p. 285.
- Moroz, M., T.M. Smiley, and C. Badgley. Variation in dental morphology among heteromyid rodents in present-day and fossil communities. American Society of Mammalogists, annual meeting, Minneapolis, Minnesota, Program, p. 172.
- 2015
- Badgley, C. Historical baselines of diversity and turnover from the mammalian fossil record. Society of Vertebrate Paleontology, annual meeting, Dallas, Texas.
- Badgley, C. Continental gateways and the dynamics of mammalian faunal change. International Biogeography Society, 7<sup>th</sup> meeting, Bayreuth, Germany. *Frontiers in Biogeography* 6, suppl. 1, Conference program and abstracts, p. 20.
- 2014
- Badgley, C. Faunal assemblages as products and indicators of environmental context. Invited talk in Contrasting faunal communities of ancient terrestrial ecosystems (workshop). International Paleontological Congress, Mendoza, Argentina. IPC Abstract Boo.
- Domingo, M.S., C. Badgley, B. Azanza, D. DeMiguel, and M.T. Alberdi. Diversification of mammals from the Miocene of Spain. European Association of Vertebrate Paleontology, 12<sup>th</sup> Annual meeting, Turin, Italy. EAVP Abstract Book and Field Trip Guide, p. 53.

Badgley, C., M.S. Domingo, J.C. Barry, L.J. Flynn, and M. Morgan. Dynamics of faunal and ecosystem change from the Siwalik record of Pakistan. European Association of Vertebrate Paleontology, 12<sup>th</sup> Annual meeting, Turin, Italy. EAVP Abstract Book and Field Trip Guide, p. 8.

Badgley, C., A.K. Behrensmeyer, T.E. Cerling, M.E. Morgan, J.C. Barry, and D. Pilbeam. (keynote presentation) Neogene grasslands of the Indian subcontinent: dynamics of the transition from C<sub>3</sub> to C<sub>4</sub> ecosystems. North American Paleontological Convention, Gainesville, Florida. Abstract volume, Paleontological Society Special Publication Vol 13, p. 112.

2013

Badgley, C., S. Domingo, J. Barry, L. Flynn, and M. Morgan. Three biogeographic modes of change in Miocene mammal diversity from the Siwalik sequence of the Indian subcontinent. Society of Vertebrate Paleontology Annual Meeting, Los Angeles, CA. Online supplement to Journal of Vertebrate Paleontology, p. 81.

Smiley, T.M., C. Badgley, and J.A. Finarelli. Miocene mammal diversity in relation to tectonic and climatic history of the Basin and Range Province. Society of Vertebrate Paleontology Annual Meeting, Los Angeles, CA. Online supplement to Journal of Vertebrate Paleontology, p. 213.

Morgan, M.E., J.C. Barry, L.J. Flynn, D. Pilbeam, C. Badgley, M.S. Domingo, A.K. Behrensmeyer. Mammalian faunal stability and change in the Middle and Late Miocene Siwaliks of Pakistan: Time-slice analysis. Regional Committee on Mediterranean Neogene Stratigraphy: Neogene to Quaternary Geological Evolution of Mediterranean, Paratethys and Black Sea, Istanbul, Turkey.

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- 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

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