

## CURRICULUM VITAE

Daniel C. Fisher

### EDUCATION

- 1971 A.B. summa cum laude, Geological Sciences, Harvard University  
1972 A.M. Geological Sciences, Harvard University  
1975 Ph.D. Geological Sciences, Harvard University

### PROFESSIONAL POSITIONS

- 1975 Instructor, Department of Geological Sciences, University of Rochester  
1975 - 1979 Assistant Professor, Department of Geological Sciences, University of Rochester  
1976 - **date** **Research Associate, Field Museum of Natural History**  
1979 - 1984 Assistant Professor, Department of Geological Sciences and Assistant Curator, Museum of Paleontology, University of Michigan  
1982 - 1984 Assistant Professor, Department of Biology, University of Michigan  
1984 - 1992 Associate Professor, Department of Geological Sciences, Associate Professor, Department of Biology, and Associate Curator, Museum of Paleontology, University of Michigan  
1992 - 2001 Professor, Department of Geological Sciences, Professor, Department of Biology, and Curator, Museum of Paleontology, University of Michigan  
2001 - 2011 Professor, Department of Geological Sciences, Professor, Department of Ecology and Evolutionary Biology, and Curator, Museum of Paleontology, University of Michigan  
2011 - **date** **Research Associate, Denver Museum of Nature and Science**  
2011 - **date** **Professor, Department of Earth and Environmental Sciences, Professor, Department of Ecology and Evolutionary Biology, and Curator/Director, Museum of Paleontology, University of Michigan**

### HONORS AND AWARDS

- 1971 Phi Beta Kappa  
1971 - 1972 Woodrow Wilson National Fellowship  
1971 - 1974 National Science Foundation Graduate Fellowship  
1981 Honorary Member, Michigan Archaeological Society  
1984 Henry Russel Award (achievement in teaching and research), University of Michigan  
1984 Schuchert Award (achievement in the field of paleontology), Paleontological Society  
1985 - 1986 Guggenheim Fellowship, J. S. Guggenheim Memorial Foundation  
1995 LS&A Excellence in Research Award, University of Michigan  
1999 LS&A Excellence in Research Award, University of Michigan  
2002 - **date** LS&A Collegiate Professorship, University of Michigan (Claude W. Hibbard Collegiate Professor of Paleontology)  
2003 Outstanding Research Mentor, Undergraduate Research Opportunity Program, University of Michigan  
2005 Fellow, American Association for the Advancement of Science  
2005 Fellow, Paleontological Society  
2006 - 2010 Senior Fellow, Michigan Society of Fellows, University of Michigan  
2011 Governor's Award for Historic Preservation, State of Michigan

### EDITORIAL AND PROFESSIONAL SOCIETY SERVICE

- 1982 Abstract Review Committee (Paleontology Section) for GSA Annual Meeting  
1982 - 1985 Associate Editor, *Evolution*  
1983 - 1985 Paleontological Society Representative to AAAS  
1987 - 1995 Patterson Award Committee, Society of Vertebrate Paleontology  
1988 - 1990 Associate Editor, *Paleobiology*  
1991 Search Committee for Director of R. M. Alf Museum, Claremont, California

1993 - 2012 Associate Editor, *Current Research in the Pleistocene*  
 1994 - 1999 Schuchert Award Committee, Paleontological Society  
 1994 - 1997 Editorial Board, *Geology*  
 2009 - **date** **Scientific Advisory Board, Mammoth Site of Hot Springs, South Dakota**  
 2010 Scientific Committee, Vth International Mammoth Conference  
 2011 - 2013 Committee on Fellows, Paleontological Society  
 2012 - **2014** **Scientific Committee, VIth International Mammoth Conference**  
**2014 - date** **Editorial Board, *PaleoAmerica***

#### PROPOSAL REVIEW PANELS

1985 - 1991 Systematic Biology Program, National Science Foundation  
 2010 - 2011 Sedimentary Geology and Paleobiology Program, National Science Foundation

#### PROFESSIONAL CONSULTING

1992 - 1994 Maine State Museum (Scarborough mammoth exhibit)  
 1993 - 1995 Field Museum of Natural History, *Life through Time* (mammoth tusk exhibit)  
 1994 - 1995 Michigan Department of Transportation (St. Johns mastodon analysis and exhibit)  
 1995 - 1997 Cranbrook Institute of Science (*Mystery of the Mastodons* exhibit)  
 1996 Hot Springs Mammoth Site, Hot Springs, South Dakota, Visiting Scientist  
 1996 - 1998 New York State Museum (Cohoes mastodon, restoration, mounting, and analysis)  
 1997 - 1998 University of Michigan School of Education and School of Information, Collaboratory for Research on Electronic Work ('whiteboard' teaching experiment)  
 1999 - 2000 Development and filming of Discovery Channel's "Land of the Mammoth"  
 2000 - 2001 Development and filming of Discovery Channel's "Mastodon in Your Backyard"  
 2000 - 2003 Paleontological Research Institution (Hyde Park mastodon)  
 2004 - 2006 Exhibit Museum, University of Michigan (Buesching mastodon exhibit; Mastodons and the Ice Age Theme Semester)  
 2005 - 2006 Rochester Museum and Science Center, Rochester, New York (upgrade of Pleistocene exhibits)  
 2006 - 2007 Science Central, Fort Wayne, Indiana (mastodon skeletal mount)  
 2006 - 2008 Development and filming of Nebraska Educational Television's "Mammoth Mystery"  
 2006 - 2008 Mid-Hudson Children's Museum, Poughkeepsie, New York (mastodon skeletal mount)  
 2007 - 2010 Field Museum, Chicago, Illinois (exhibition on mammoths and mastodons)  
 2007 - 2008 Development and filming of Discovery Channel film, "Baby Mammoth"  
 2008 - 2009 National Geographic Television, "Waking the Baby Mammoth"  
 2008 - 2009 State Museum of Pennsylvania (exhibition on Marshall's Creek mastodon)  
 2009 - **2014** **State Museum of Indiana (exhibition on Buesching and Bothwell mastodons)**  
 2010 - **2014** **Advisory Committee, Snowmastodon Project, Denver Museum of Nature & Science**  
 2011 - 2012 Development and filming of National Geographic Television/NOVA's "Ice Age Death Trap" ["Highest rating for a NOVA broadcast in seven years"]  
 2011 - 2012 Development and filming of BBC/Discovery Channel's "Woolly Mammoth: Secrets from the Ice"  
 2011 - 2012 Development and filming of Giant Screen Films/IMAX-3D documentary ["Titans of the Ice Age"]  
 2011 - **2014** **Development of BBC/Discovery Channel documentary ["Ice Age Giants"]**  
 2012 - **2013** **Development of French television documentary on Chilean mastodon [in series "L'Empire des Sciences"]**  
 2012 - **2014** **Anatomical consultant, Snowmass mastodon sculpture, Denver Museum of Nature & Science**  
 2013 - **2014** **Development of Smithsonian Channel documentary ["How to clone a woolly mammoth"]**  
**2014** **Development of German documentary ["Mammuts – Stars-der-Eiszeit"]**

## UNIVERSITY SERVICE

- 1980 Rackham Fellowship Committee (light)  
 1982 Michigan Scholars Program (light)  
 1984 President's Club Lecture, University of Michigan (light)  
 1988 Kelsey Museum (exhibit development; light)  
 1993 - 1995 Systematic Biology at UM, LS&A Dean's Advisory Committee (heavy)  
 1994 Office of the Vice President for Research (paleontological fieldwork photos; light)  
 1994 Exhibit development (Brennan mastodon tracks) for the Exhibit Museum (heavy)  
 1995 - 1998 School of Education (workshop consultant and lecturer; light)  
 1997 Legal negotiations regarding the Sexton mastodon site (light)  
 2002 Planning for a Visible Preparation Laboratory for the Exhibit Museum (light)  
 2002 - 2003 Chair of search committee for Director of the Museum of Zoology/Herbarium (heavy)  
 2003 Program development with University Office of Government Relations for 2004 activities at Kalamazoo Valley Museum (light)  
 2005 Lectures for "Michigan Difference" program, UM Development Office (light)  
 2006 Participate in "Celebrate Invention" for Office of Technology Transfer (light)  
 2006 - 2010 Selection of Junior Fellows, Michigan Society of Fellows (heavy)  
 2009 Lecture for 4<sup>th</sup> Thursday (UM Development Office), Petoskey, MI (medium)  
**2014 Lecture for M-Talks (UM Development Office), Ann Arbor, MI (light)**  
**2014 Interview and production support for article ("The Dead Elephant in the Room") in LSA Magazine**

## DEPARTMENTAL SERVICE

*Department of Geological Sciences, Earth and Environmental Sciences*

- 1981 - 1982 Internal Review Committee (heavy)  
 1981 - 1984 Scott Turner Award Committee, chair (heavy)  
 1982 - 1984 Executive Committee (heavy)  
 1982 - 1984 Paleontology Search Committee, chair (heavy)  
 1984 Scott Turner Award Committee, transition to new account manager (light)  
 1984 Turner Lecture Organizer (medium)  
 1984 Graduate Student Support Committee (light)  
 1986 - 1987 Ph.D. Examination Committee, chair (medium)  
 1987 - 1989 Executive Committee (heavy)  
 1989 - 1990 Paleontology Search Committee, chair (heavy)  
 1991 - 1994 Ph.D. Examination Committee (medium)  
 1992 - 1994 Museum tours for Geo 135 (light)  
 1992 Field trip for Geo 275 (light)  
 1994 Guest lecture for Geo 411 (light)  
 1994 - 1995 Curriculum Committee (light)  
 1994 - 1995 Paleontology Search Committee, chair (heavy)  
 1995 - 1997 Executive Committee (heavy)  
 1998 - 1999 Ph.D. Examination Committee (light)  
 2000 Guest lectures for Geo 135 and 411 (light)  
 2000 Assembled award dossier for a senior faculty colleague (medium)  
 2000 - 2002 Executive Committee (heavy)  
 2002 - 2004 Ph.D. Examination Committee (light-medium)  
 2003 Turner Postdoctoral selection committee (light)  
 2004 Ad hoc Promotion Committee in Paleontology (medium)  
 2004 - 2006 Graduate Admissions Committee (light FA; medium WN)  
 2006 - 2008 Executive Committee (heavy)  
 2008 - 2009 Ad hoc Promotion Committee in Oceanography (heavy in 2009)  
 2008 - 2010 Turner Postdoctoral selection committee (medium)  
 2010 - 2011 Ph.D. Examination Committee (light FA; medium WN)

- 2010 - 2011 Graduate Admissions Committee (light FA; medium WN)  
 2010 - **date** **Lab tours for Undergraduate Research Opportunities Program, Univ. Michigan**  
 2011 Lecture for “Lunch with Honors”, Univ. Michigan  
 2012 Ad hoc Promotion Committee (medium)  
 2012 Lab tours for Earth 151, English 225, History 238, Univ. Michigan  
 2013 - **2014** **Lab tours for History 238**  
**2014 - 2015** **Paleontology Search Committee (heavy)**

*Museum of Paleontology* (incomplete record – information not previously recorded)

- 1982 - **date** **Faculty Liaison for “Friends of the UMMP” (light-medium)**  
 1982 - 1984 Paleontology Search Committee, chair (heavy)  
 1984 Laboratory renovation and relocation of invertebrate collections (heavy)  
 1987 Design and development of Morphometrics Laboratory (heavy)  
 1988 National Science Foundation-Sponsored Workshop, “Morphometrics in Systematic Biology”, planning and organization (heavy)  
 1988 - 2011 Acting Director during PDG fieldwork and leaves (variable)  
 1988 Basement renovation and collection move (heavy)  
 1989 ‘Executor’ of JAK specimens and loans (medium)  
 1989 - 1990 Paleontology Search Committee, chair (heavy)  
 1991 Paleobotany Search Committee (medium)  
 1991 Reorganization of Morphometrics Laboratory (light)  
 1992 Equipment upgrade for Morphometrics Laboratory (light)  
 1994 - 1995 Paleontology Search Committee, chair (heavy)  
 2000 Internal Review Committee (medium)  
 2001 - 2002 Acting Director during PDG sabbatical (heavy)  
 2001 - 2002 Search for Invertebrate Paleontology Collections Manager, chair (light)  
 2004 Ad hoc Promotion Committee in Paleontology  
 2010 Acting Director during PDG sabbatical (heavy)  
 2011 - **date** **Director (heavy; especially in light of BSB and Varsity Drive projects)**  
 2012 Editorial assistance in reprinting of UMMP Silica Volume (moderate)  
 2012 - **2014** **Development of UMORF website featuring 3D models of UMMP specimens**  
 (<http://umorf.ummp.lsa.umich.edu/>)  
**2014 - 2015** **Paleontology Search Committee (heavy)**

*Department of Ecology & Evol. Biol.* (incomplete record – information not previously recorded)

- 1991 - date Guest Lecturer in various EEB courses (EEB 516 for 2003)  
 1991 Paleobotany Search Committee (medium)  
 1993 - 1995 Systematic Biology at UM, LS&A Dean’s Advisory Committee (heavy)  
 1996 Promotions Committee (medium)  
 2007 Ad hoc Promotion and Tenure Committee  
 2012 Ad hoc Promotion and Tenure Committee

INVITED LECTURES (since 1979)

- 1979 Department of Earth and Space Sciences, State University of New York at Stony Brook, Stony Brook, New York  
 1979 Department of Earth and Planetary Sciences, John Hopkins University, Baltimore, Maryland (2)  
 1979 Paleontological Society Short Course on Arthropoda, San Diego, California  
 1979 American Society of Zoologists, Symposium on Functional Analysis and Phylogenetic Inference, Tampa, Florida  
 1980 Department of Geophysical Sciences, University of Chicago, Chicago, Illinois  
 1980 Macroevolution Conference, Field Museum of Natural History, Chicago, Illinois  
 1980 Michigan Archaeological Society, Monroe, Michigan

- 1981 Michigan Archaeological Society, Bloomfield Hills, Michigan  
1981 Department of Geological Sciences, University of Michigan  
1981 Hennig Society, Symposium on Functional Analysis and Cladistics, University of Michigan  
1981 Michigan Archaeological Society, Monroe, Michigan  
1982 North American Paleontological Convention III, Symposium on Mechanics of Evolution, Montreal, Québec  
1982 North American Paleontological Convention III, Symposium on Problematica, Montreal, Québec  
1982 Department of Geology, Western Michigan University, Kalamazoo, Michigan  
1983 Department of Geological Sciences, University of Michigan  
1983 Paleontological Society Symposium, Frontiers in Paleontology, Indianapolis, Indiana  
1984 Michigan Mineralogical Society and Cranbrook Institute of Science, Bloomfield Hills, Michigan  
1984 Sigma Xi Spring Banquet, Michigan State University, Central Michigan University, and Alma College, Mt. Pleasant, Michigan  
1984 Michigan Archaeological Society, Monroe, Michigan  
1984 President's Club Lecture, University of Michigan  
1984 First International Conference on Bone Modification, Carson City, Nevada  
1984 Museum of Anthropology, University of Michigan  
1986 Symposium on Evolution of Human Hunting, Field Museum of Natural History, Chicago, Illinois  
1986 Symposium on Late Pleistocene and Early Holocene Paleocology and Archaeology of the Eastern Great Lakes Region, Buffalo Museum of Science, Buffalo, New York  
1986 Montcalm Community College, Sydney, Michigan  
1986 Alfred P. Sloan Museum, Flint, Michigan  
1986 Museum of Zoology, University of Michigan  
1987 Department of Geology, Oberlin College, Oberlin, Ohio  
1987 Department of Paleontology, University of California at Berkeley, Berkeley, California (2)  
1987 Michigan Archaeological Society, Ann Arbor, Michigan  
1988 Michigan Archaeological Society, Ann Arbor, Michigan  
1988 National Science Foundation-Sponsored Workshop, Morphometrics in Systematic Biology, University of Michigan  
1988 Kelsey Museum, University of Michigan  
1988 Montcalm Community College, Sydney, Michigan  
1988 Paleontological Society Symposium, Computer-Assisted Phylogenetic Analysis, Denver, Colorado  
1989 Michigan Geology and Geologic Resources Conference, Michigan Department of Natural Resources, Geological Survey Division and Department of Geology, Michigan State University  
1990 Michigan Archaeological Society, Ann Arbor, Michigan  
1990 Kelsey Museum, University of Michigan  
1991 Museum of Zoology and Department of Biology, University of Michigan  
1991 Museum of Anthropology and Department of Anthropology, University of Michigan  
1991 Annual Meeting of the Michigan Archaeological Society, East Lansing, Michigan  
1991 Illinois State Museum, Springfield, Illinois  
1991 Paleontological Society Short Course, Analytical Paleobiology, San Diego, California  
1991 Department of the Geophysical Sciences and Department of Anatomy, University of Chicago, Chicago, Illinois  
1992 Department of Geology, Tulane University, New Orleans, Louisiana (2)  
1992 Symposium on Systematics and Process, Field Museum of Natural History, Chicago, Illinois  
1992 North American Paleontological Convention V, Symposium on Early Metazoan Evolution, Field Museum of Natural History, Chicago, Illinois  
1992 Ohio Archaeological Council, Symposium on First Discovery of America, Columbus, Ohio  
1993 Michigan Archaeological Society, Ann Arbor, Michigan (2)  
1993 Michigan Archaeological Society, Chesaning, Michigan  
1993 Molecular Biology and Population Genetics Seminar, Department of Biology, University of Michigan

- 1993 The William Benninghoff Memorial Lectures, Turner Geriatric Services, Ann Arbor, Michigan
- 1993 Natural Sciences Department, University of Michigan, Dearborn, Michigan
- 1994 Michigan Archaeological Society, Ann Arbor, Michigan
- 1994 Department of Geological Sciences, University of Illinois at Chicago, Chicago, Illinois
- 1994 Annual Meeting of the Geological Association of Canada, Symposium on the Burning Tree Mastodon, Waterloo, Ontario (2)
- 1995 Michigan Archaeological Society, Ann Arbor, Michigan
- 1995 Michigan Historical Museum, Lansing, Michigan
- 1995 Society for American Archaeology, Symposia on Northeast and Great Lakes Paleoindian Cultural Adaptations and on the Dent Mammoth Site, Minneapolis, Minnesota (2)
- 1995 Oxbow Archaeological Society and Chippewa Nature Center, Midland, Michigan
- 1995 Cranbrook Institute of Science, Bloomfield Hills, Michigan
- 1996 Michigan Archaeological Society, Bloomfield Hills, Michigan
- 1996 Hall of Ideas, Midland Center for the Arts, Midland, Michigan
- 1996 Department of Biology, University of Michigan
- 1996 Michigan Archaeological Society, Ann Arbor, Michigan
- 1996 Exhibit Opening for the Exhibit Museum of Natural History, University of Michigan
- 1996 Society of Vertebrate Paleontology, Symposium on Evolution of the Proboscidea, American Museum of Natural History, New York, New York
- 1996 Society of Vertebrate Paleontology, Plenary Symposium, American Museum of Natural History, New York, New York
- 1997 Department of Geology and Geophysics, University of Wyoming, Laramie, Wyoming (2)
- 1997 Geological Museum, University of Wyoming, Laramie, Wyoming
- 1997 Michigan Archaeological Society, Ann Arbor, Michigan
- 1997 Elkhart County Historical Museum, Bristol, Indiana
- 1997 Society of Vertebrate Paleontology, Symposium on Stratigraphy and Phylogenetic Inference, Chicago, Illinois
- 1997 Society of Vertebrate Paleontology, Plenary Symposium, Chicago, Illinois
- 1997 Exhibit Opening for the New York State Museum, Albany, New York
- 1998 Rochester Museum and Science Center, Rochester, New York
- 1998 Cranbrook Institute of Science, Bloomfield Hills, Michigan
- 1998 Department of Biology, Andrews University, Berrien Springs, Michigan
- 1998 International Conference on Mammoth Site Studies, University of Kansas, Lawrence
- 1998 Department of Geology, University of Nebraska, Lincoln, Nebraska (2)
- 1998 Society of Vertebrate Paleontology, Symposium on Isotopic Ecology of Fossil Vertebrates, Snowbird, Utah
- 1999 Annual Board Meeting of the Mammoth Site, Hot Springs, South Dakota
- 1999 Spring Lecture Series, Chippewa Nature Center, Midland, Michigan
- 1999 Michigan Archaeological Society Annual Meeting, East Lansing, Michigan
- 1999 Second International Mammoth Conference, Natural History Museum of Rotterdam, Rotterdam
- 1999 Clovis and Beyond Conference, Santa Fe, New Mexico
- 2000 Glacial Lakes Symposium, Western Pennsylvania Conservancy, Erie, Pennsylvania
- 2000 Michigan Archaeological Society, Ann Arbor, Michigan
- 2000 Department of Biology, University of Michigan
- 2000 Keynote speaker, New York Natural History Conference VI, New York State Museum, Albany, New York
- 2000 Department of Geophysical Sciences, University of Chicago, Chicago, Illinois (2)
- 2000 Workshop on Computational Approaches to Theoretical Morphology, Santa Fe Institute, Santa Fe, New Mexico
- 2001 Society of Vertebrate Paleontology, Incremental Growth Symposium, Bozeman, Montana
- 2001 Hiscock Site Symposium, Buffalo Museum of Science, Buffalo, New York
- 2002 Michigan Archaeological Society, Ann Arbor, Michigan
- 2002 Farrand Lecture, University of Michigan Exhibit Museum, Ann Arbor, Michigan

- 2002 Illinois State Museum, Springfield, Illinois (2)
- 2002 Instituto Nacional de Antropología e Historia, Mexico City (lecture and workshop)
- 2003 Michigan Archaeological Society, Ann Arbor, Michigan
- 2003 Department of Geology, Florida Museum of Natural History, University of Florida
- 2003 Society of Vertebrate Paleontology, Biomineralization Symposium, St. Paul, Minnesota
- 2004 Center for Bone Research, University of Michigan
- 2004 Michigan Archaeological Society, Ann Arbor, Michigan
- 2004 Academy of Sciences of the Republic of Sakha (Yakutia), Yukagir Mammoth Symposium, Yakutsk, Yakutia
- 2005 Western Interior Paleontological Society Symposium, School of Mines, Golden, Colorado
- 2005 University of Michigan, Museum of Anthropology, Ann Arbor, Michigan
- 2005 Buesching Mastodon Exhibit Opening, UM Exhibit Museum, Ann Arbor, Michigan
- 2005 International Symposium on the Yukagir Mammoth, EXPO2005, Nagoya, Japan
- 2006 Origins Symposium, Evolution Theme Semester, University of Michigan
- 2006 University of Minnesota, Minneapolis, Minnesota
- 2006 Michigan Community College Biologists, Fall Conference, Jackson, Michigan
- 2007 Sirchio Lecture, Cranbrook Institute of Science, Bloomfield Hills, Michigan
- 2007 Keynote Speaker, 9<sup>th</sup> International Conference on the Chemistry and Biology of Mineralized Tissues, Austin, Texas
- 2007 Saturday Morning Physics Lecture, UM Department of Physics, Ann Arbor, Michigan
- 2009 Hot Springs Mammoth Site, Hot Springs, South Dakota
- 2009 Department of Geology and Geophysics, University of Wyoming, Laramie, Wyoming
- 2009 Michigan Society of Fellows, University of Michigan, Ann Arbor, Michigan
- 2010 Department of Geology and Geophysics, University of Utah
- 2010 Rochester Museum and Science Center, Rochester, New York
- 2010 Lecture for “National Geographic Live!”, Field Museum, Chicago, Illinois
- 2010 Advanced Photon Source, Argonne National Laboratory, Argonne, Illinois
- 2010 Saturday Morning Physics Lecture, UM Department of Physics, Ann Arbor, Michigan
- 2010 International Society of Barristers, Ponte Vedra, Florida
- 2010 Keynote Speaker for Symposium on Late Quaternary Mammal Ecology, European Geosciences Union, Vienna, Austria
- 2010 Michigan Historical Museum, Lansing, Michigan
- 2010 University of Michigan Museum of Anthropology, Ann Arbor, Michigan
- 2011 NASA Goddard Space Flight Center, Greenbelt, Maryland
- 2011 Anchorage Museum, Anchorage, Alaska
- 2011 Cleveland Museum of Natural History, Cleveland, Ohio
- 2011 Michigan Archaeological Society, Ann Arbor, Michigan
- 2013 Denver Museum of Nature & Science, Denver, CO (3)
- 2013 Geology Lecture Series, Southern Oregon Community College, Coos Bay, OR
- 2013 Beringea Days, US National Park System Conference, Anadyr, Chukotka, Russian Federation
- 2014 National Museums of Scotland, Edinburgh, UK**
- 2014 North-East Federal University, Yakutsk, Russian Federation**
- 2014 Plenary Lecture, VIth International Conference on Mammoths and their Relatives, Siatista, Greece**
- 2014 Elephant Management Association Meeting, Toledo Zoo, Toledo, OH**
- 2014 Musée d’Anthropologie préhistorique de Monaco, Monaco**

COMMUNITY OUTREACH (incomplete)

- 1979 Presentation to Ann Arbor Public Schools Naturalists
- 1979 - **date** **Identification of fossils for the public**
- 1979 - **date** **Television and radio interviews, and newspaper articles, on proboscidean research**
- 1980 ‘Centerpiece’ exhibit at the Greater Detroit Gem and Mineral Show
- 1986 Publicity, news releases associated with *Science* article and GSA talk on fulgurite

- 1987 Community-assisted excavation of the Eldridge mastodon site
- 1988 Montcalm Community College, exhibit development and filming of videotape on the Eldridge Mastodon site
- 1989 Publicity following GSA presentation on underwater meat storage by Paleoindians
- 1991 Publicity related to discovery of live gut bacteria of the Burning Tree mastodon
- 1992 Community-assisted excavation of the Brennan mastodon site
- 1992 Six presentations to ca. 500 students of Lenawee Public Schools
- 1992 Publicity related to discovery of mastodon trackways at the Brennan site
- 1992 Led two field trips to Heisler mastodon site for Albion College Anthropology Department
- 1993 Lecture for the Saline Historical Society, Saline, Michigan
- 1993 Annual Banquet Address, Huron Hills Lapidary and Mineralogical Society, Saline, Michigan
- 1993 Lecture for the Exchange Club of Ann Arbor, Ann Arbor, Michigan
- 1993 Lecture for the Thursday Forum, First Presbyterian Church, Ann Arbor, Michigan
- 1993 Led two field trips to Heisler mastodon site for Albion College Anthropology Department
- 1993 Tour of Museum of Paleontology for class from Washtenaw Community College
- 1993 Led field trip to Brennan mastodon site for in-service training of Washtenaw County science teachers
- 1994 Lecture for the Thursday Luncheon Club, Methodist Church, Ann Arbor, Michigan
- 1994 Lecture and field trip for Electronic Data Systems Employee/Management Workshop, Flint, Michigan
- 1994 Tour of Museum of Paleontology and lecture for Detroit Renaissance High School
- 1994 Tour of Museum of Paleontology and lecture for Michigan Dept. of Transportation
- 1994 Tour of Museum of Paleontology and lecture for Howard Hughes Summer Institute
- 1995 Presentations in local schools (Saline High School and Burns Park School)
- 1995 Community-assisted excavation of Finney mastodon site
- 1995 Mastodon research featured in cover story, *Chronicle for Higher Education*
- 1995 Presentations in local schools (Burns Park School and Saline High School)
- 1995 Development and filming of BBC special on underwater meat storage
- 1996 Presentations in local school (Burns Park School)
- 1997 Community-assisted excavation of Sexton mastodon site
- 1997 Development and filming of Nova special, "Resurrecting the Mammoth"
- 1998 Tours of Museum of Paleontology for classes from Wayne State Univ. and Hope College
- 1998 Presentations in local schools (Burns Park School and Chelsea Elementary School)
- 1998 Community-assisted excavation of the Krugler mastodon site
- 1998 - 2001 Summer supervision of Ryan Erickson (high school student) in laboratory
- 1998 - 2001 Multiple presentations on the Buesching mastodon, for staff and students of Indiana University/Purdue at Fort Wayne
- 1999 Tours of Museum of Paleontology for classes from Wayne State University, Washtenaw Community College, and Calvin College
- 1999 Community-assisted excavation of Bishop mastodon site
- 1999 - 2002 Regular involvement of high school students from Sanilac County Career Center in laboratory research on the Bishop mastodon
- 2000 Tours of Museum of Paleontology for classes from Wayne State University and Washtenaw Community College
- 2000 Radio interview for "Quirks and Quarks"
- 2000 Summer supervision of John Belanger (high school student) in laboratory
- 2000 Publicity surrounding Discovery Channel's "Land of the Mammoth"
- 2001 Publicity surrounding Discovery Channel's "Mastodon in Your Backyard"
- 2001 Editing and revision for international release, Discovery Channel's "Mastodon in Your Backyard"
- 2001 Lecture for the University of Michigan Club of Western Michigan, Muskegon, Michigan
- 2002 Sloan Museum Lecture, Flint, Michigan



- 2002 Pittsfield Historical Society Lecture, Ann Arbor, Michigan
- 2003 Radio interview for “Quirks and Quarks” from Dawson City, Yukon Territories; research associated with 3<sup>rd</sup> International Mammoth Conference
- 2003 Participation in Society of Vertebrate Paleontology press conference at Annual Meeting in St. Paul, Minnesota; research on intraspecific combat in mastodons
- 2003 Radio interview for “Quirks and Quarks” from Ann Arbor, Michigan; research on intraspecific combat in mastodons; additionally, eight other interviews/coverage in radio, television, and print media (including Science and Scientific American)
- 2004 Public programs presented for Kalamazoo Valley Museum, with cooperation from University Office of Government Relations
- 2004 Public programs presented for Woodward School for Technology and Research, with cooperation from University Office of Government Relations
- 2004 Radio interview for “Stateside” from WUOM; general interest on mastodons and Pleistocene extinctions
- 2004 Museum programs on Pleistocene research for MSU science teachers training and for Undergraduate Research Opportunities Program
- 2005 Ice Age Discovery Day, UM Exhibit Museum, Ann Arbor, Michigan
- 2005 Multiple events and ongoing development of video interactive display for Buesching Mastodon Exhibit
- 2005 Radio interview for “Stateside” from WUOM; Buesching Mastodon Exhibit
- 2005 Lecture for Women in Science & Engineering Program, UM, Ann Arbor, Michigan
- 2005 Lecture on Buesching mastodon for “Science Central,” Fort Wayne, Indiana
- 2005 “New mastodon in town!” article for Geoscience News, UM Department of Geological Sciences
- 2005 Multiple interviews and news coverage of work on evidence of weaning from a juvenile woolly mammoth tusk; articles in Science News and on websites for Discovery Channel, National Geographic, and Animal Planet.
- 2005 Supervision of summer laboratory experience for Randall McComb, a disabled high school student from Ann Arbor
- 2005 Development of interactive video display to augment mastodon exhibit at Rochester Museum and Science Center, Rochester, New York
- 2008 Nebraska Educational Television and National Public Radio coverage of work on the Crawford mammoths, Nebraska State Museum, Lincoln, Nebraska
- 2007 Publicity surrounding Discovery Channel program, “Baby Mammoth”, featuring work on the Oimyakon baby mammoth in Siberia and Ann Arbor
- 2007 Supervision of academic-year lab experience for Matthew Orr, a high school student from Ann Arbor
- 2007 Lab tours (x3) for Society of Manufacturing Engineers-sponsored “Brightminds” program; Detroit high school students interested in digitizing and rapid-prototyping
- 2007 Keynote lecture; R.M. Alf Museum, Webb School of California, Claremont, California
- 2009 National Geographic documentary of work on Yamal baby mammoth (Lyuba): “Waking the Baby Mammoth”; preceded and followed by several television and many (ca. 40) radio interviews covering work on Lyuba
- 2008 Research Forum, Undergraduate Research Opportunities Program, Univ. Michigan
- 2010 Press conferences, interviews, lectures, and docent training for Field Museum exhibition: Mammoths and Mastodons: Titans of the Ice Age, Chicago, Illinois (ca. 400,000 visitors, March-September)
- 2010 Community interaction involving excavation of Riley Mammoth, Saranac, Michigan
- 2011 Publicity surrounding Governor’s Award for Historic Preservation, for work on the Riley Mammoth site, Saranac, Michigan
- 2010 - date **Lab tours for students from Marlette High School, Marlette, Michigan**

2010 - date      **Behind the Scenes tours for Ruthven Museums Building, Univ. Michigan**  
**2014**              **Lecture for Western Kiwanis Interclub, Ann Arbor, MI**

#### RESEARCH GRANTS

##### *External*

- 1979 - 1981      Petroleum Research Fund, American Chemical Society; “Evolutionary functional morphology of the Xiphosurida” (returned when concurrent NSF grant was funded)
- 1979 - 1982      \$30,700 (50% indirect cost rate), National Science Foundation, Systematic Biology Program, “Morphogenesis and life orientation of receptaculitids”, PI = D. C. Fisher (100%)
- 1981              \$1,000 (0% indirect cost rate), Field Museum of Natural History, “Standardization of the Anatomical Orientation of Receptaculitids”, PI = D. C. Fisher; (100%)
- 1983 - 1985      \$60,000 (50% indirect cost rate), National Science Foundation, Systematic Biology Program, “Skeletal crystallography of the Stylophora: a test of the calcichordate theory of vertebrate origins”, PI = D. C. Fisher (100%)
- 1985 – 1986      \$26,900 (0% indirect cost rate), John Simon Guggenheim Foundation, “Seasonal mortality of late Pleistocene mastodons”, PI = D. C. Fisher (100%)
- 1986 - 1990      \$99,000 (50% indirect cost rate), National Science Foundation, Anthropology Program, “Seasonal mortality and life history of Pleistocene mastodons and mammoths”, PI = D. C. Fisher (100%)
- 1988              \$2,500 (50% indirect cost rate), National Science Foundation, Anthropology Program, REU Supplement to “Seasonal mortality and life history of Pleistocene mastodons and mammoths”, PI = D. C. Fisher (100%)
- 1990 - 1991      \$20,000 (50% indirect cost rate), National Science Foundation, Ecology Program, [Proposal for completion of research and designation of substitute PIs for BSR-8605310, originally funded to J. A. Kitchell], Substitute PI = P. D. Gingerich, Substitute Co-PIs = D. C. Fisher and C. E. Badgley (DCF, 33%)
- 1991 - 1992      \$4,500 (0% indirect cost rate), UM Information Technology Division and Apple Computer, Inc., “Microcomputing equipment for instruction in the area of phylogenetic analysis”, PI = Daniel C. Fisher (100%)
- 1992 - 1996      \$105,567 (56% indirect cost rate), National Science Foundation, Anthropology Program, “Human interaction with North American Pleistocene proboscideans”, PI = Daniel C. Fisher (100%)
- 1994 - 1994      \$2,000 (0% indirect cost rate), Wagner Spray Tech Corporation, “HVLP sprayer for production of a cast of an Ice Age mastodon trackway”, PI = Daniel C. Fisher (100%)
- 1994 - 1995      \$3,305 (0% indirect cost rate), Michigan Department of Transportation, “Recovery, site mitigation, and analysis of the St. Johns mastodon”, PI = Daniel C. Fisher (100%)
- 1995 - 1996      \$3,750 (0% indirect cost rate), Maine State Museum, “Oxygen, carbon, and nitrogen isotope analyses of the Scarborough mammoth”, PI = Daniel C. Fisher (100%)
- 1996 - 1997      \$1,000 (0% indirect cost rate), Mammoth Site of Hot Springs, S. D., Inc., “Season of death analyses of the Hot Springs mammoths”, PI = Daniel C. Fisher (100%)
- 1996 - 2001      \$151,500 (52.5% indirect cost rate), National Science Foundation, Geology and Paleontology Program, “Paleobiology and extinction of North American Pleistocene proboscideans”, PI = Daniel C. Fisher (100%)
- 1997 - 1998      \$7,500 (0% indirect cost rate), New York State Education Department, “Life history and season of death analysis of the Cohoes mastodon, New York State Museum, Albany, New York”, PI = Daniel C. Fisher (100%)
- 2001 - 2002      \$7,000 (0% indirect cost rate), Minihaha Foundation, “3D modeling and digital photographic documentation of the Buesching mastodon,” PI = Daniel C. Fisher (100%)
- 2004 - 2008      \$303,623 (53% indirect cost rate), National Science Foundation, Biological Research Collections Program, “Conservation, rehousing, and computerization of the invertebrate

paleontology collection at the University of Michigan Museum of Paleontology”, Co-PIs = Tomasz K. Baumiller and Daniel C. Fisher (50% each)

2006 - 2011	\$242,082 requested, \$215,000 funded (2006-2009; 26% indirect cost rate), National Science Foundation, Geology and Paleontology Program, “Collaborative Research: Paleobiology and extinction of mammoths in northern Siberia and Wrangel Island”, PI = Daniel C. Fisher (100%; with David L. Fox as collaborating PI, University of Minnesota, separate budget)
2005 - 2009	\$13,000 (0% indirect cost rate), Minihaha Foundation, “Life history analyses on the Bothwell mastodon tusks,” PI = Daniel C. Fisher (100%)
2008 - 2010	\$418,000 (52% indirect cost rate) requested (\$152,000 for DCF; not funded for 2008), National Institutes of Health, “Developmental dynamics of enamel formation”, PI = Petros Papagerakis, Co-Investigators, DCF and James Simmer, UM School of Dentistry
2008 - 2012	\$39,450 (0% indirect cost rate), National Geographic Society, Committee on Research and Exploration, “Paleobiology of juvenile woolly mammoths ( <i>Mammuthus primigenius</i> )”, PI = Daniel C. Fisher (100%)
2008 - 2010	\$83,050 (0% indirect cost rate), National Geographic Society, Expeditions Council, “Paleobiology of woolly mammoths ( <i>Mammuthus primigenius</i> ) of northern Siberia”, PI = Daniel C. Fisher (100%)
2009 - 2013	<b>\$304,867 (54.5% indirect cost rate), National Science Foundation, Biological Research Collections Program, “University of Michigan Museum of Paleontology Invertebrate Fossils: Databasing and Web-Accessibility”, Co-PIs = Tomasz K. Baumiller and Daniel C. Fisher (50% each)</b>
2009 - 2012	\$424,875 (\$154,500 for DCF; 52% indirect cost rate), National Institutes of Health, “Developmental dynamics of enamel formation”, PI = Petros Papagerakis, Co-Investigators, DCF and James Simmer, UM School of Dentistry
2012 - 2014	<b>\$15,000 (0% indirect cost rate), Denver Museum of Nature &amp; Science, “Taphonomy and paleoecology of Snowmass proboscideans”, PI= Daniel C. Fisher (100%)</b>
2013 - 2015	<b>\$43,811 (0% indirect cost rate) requested (\$15,000 for DCF), Civilian Research &amp; Development Foundation-Global and Far Eastern Branch of the Russian Academy of Sciences, “Unlocking Beringian paleoclimate records from ice wedges and mammoth tusks”, Co-PIs = Sergey L. Vartanyan and Daniel C. Fisher (50% each)</b>
2014 - 2017	<b>\$398,374 (55.5% indirect cost rate), National Science Foundation, Collections in Support of Biological Research Program, “CSBR: Natural History: Implementation of an Integrated Database Platform for the University of Michigan Biological Collections”, Co-PIs = Paul Berry, Daniel C. Fisher, and Diarmaid O’Foighil (33% each)</b>

#### *Internal*

1980	\$976 (0% indirect cost rate), Scott Turner Fund, “The Pleasant Lake mastodon: a probable Paleo-Indian butcher-site” PI = D. C. Fisher (100%)
1981	\$660 (0% indirect cost rate), Rackham School of Graduate Studies, “Standardization of the Anatomical Orientation of Receptaculitids”, PI = D. C. Fisher (100%)
1981 - 1982	\$300 (0% indirect cost rate), Scott Turner Fund, “Standardization of the Anatomical Orientation of Receptaculitids”, PI = D. C. Fisher (100%)
1981 - 1982	\$300 (0% indirect cost rate), UMMP, “Standardization of the Anatomical Orientation of Receptaculitids”, PI = D. C. Fisher (100%)
1983	\$8,202 (0% indirect cost rate), LS&A, “Matching funds for petrographic microscope with universal stage”, PI = D. C. Fisher (100%)
1983 - 1984	\$10,000 (0% indirect cost rate), LS&A, “Equipment needs in invertebrate paleontology”, PI = D. C. Fisher (100%)
1988	\$1,045 (0% indirect cost rate), Scott Turner Fund, “Goniometer head for crystallographic measurements of large specimens”, PI = D. C. Fisher (75%) AI = D. R. Peacor (25%)

1998 - 1999	\$4,000 (0% indirect cost rate), Scott Turner Fund, "Three-dimensional digitizer for documenting complex shapes", Co-PIs = D. C. Fisher (50%) and T. K. Baumiller (50%)
1998 - 1999	\$4,000 (0% indirect cost rate), UROP/OVPR Faculty Mini-Grant, "Three-dimensional documentation of mastodon bones", PI = D. C. Fisher (100%)
2002 - 2003	\$3,600 (0% indirect cost rate), UROP Supplementary Funding, "Molding and casting Ice Age mastodon skeletons", PI = D. C. Fisher (100%)
2003 - 2004	\$2,100 (0% indirect cost rate), UROP Supplementary Funding, "Molding and casting Ice Age mastodon skeletons", PI = D. C. Fisher (100%)
2005 - 2006	\$1,700 (0% indirect cost rate), UROP Supplementary Funding, "Molding and casting Ice Age mastodon skeletons", PI = D. C. Fisher (100%)

## COURSES TAUGHT AND LEAVES TAKEN

Year	Semester	Course #	Format	Course Title	Credits	% Resp.	Enroll.	Q1	Q2
1979	FA	418	Lec/Lab	Paleontology	4	100	15	2.36	2.33
1979	FA	499	Indepen.	Research & Special Work	1	100	1		
1980	WN	499	Indepen.	Research & Special Work	4	100	1		
1980	WN	536	Sem.	Paleontology Seminar	1-2	33	3		
1980	WN	709	Indepen.	Thesis AM-MS	2	100	1		
1980	SU	499	Indepen.	Research & Special Work	4	100	1		
1980	FA	418	Lec.	Paleontology	3	100	17	3.92	4.00
1980	FA	419	Lab.	Paleontology Lab	1	100	14	3.10	4.30
1980	FA	536	Sem.	Paleontology Seminar	1	33	2		
1980	FA	709	Indepen.	Thesis AM-MS	4	100	1		
1981	WN	499	Indepen.	Research & Special Work	2	100	2		
1981	WN	536	Sem.	Paleontology Seminar	1-2	33	3		
1981	WN	622	Lec.	Principles of Paleontology	3	100	8	3.5	4.3
1981	WN	709	Indepen.	Thesis Research AM-MS	4	100	1		
1981	SU	709	Indepen.	Thesis Research AM-MS	1	100	1		
1981	FA	418	Lec.	Paleontology	3	100	19	3.92	4.00
1981	FA	419	Lab.	Paleontology Lab	1	100	7	3.10	4.30
1981	FA	429	Indepen.	Investigations	5	100	1		
1981	FA	499	Indepen.	Research & Special Work	2	100	5		
1981	FA	536	Sem.	Paleontology Seminar	1-2	33	4		
1982	WN	499	Indepen.	Research & Special Work	2	100	2		
1982	WN	536	Sem.	Paleontology Seminar	1-2	33	4		
1982	WN	709	Indepen.	Thesis Research AM-MS	1-4	100	3		
1982	WN	990	Indepen.	Dissertation-Precandidate	5	100	1		
1982	SU	440	Field	Field Course in Geology	8	20	44		
1982	SU	709	Indepen.	Thesis Research AM-MS	4	100	1		
1982	SU	990	Indepen.	Dissertation-Precandidate	4	100	1		
1982	FA	418	Lec.	Paleontology	3	100	28	4.08	4.40
1982	FA	419	Lab.	Paleontology Lab	1	100	12	4.38	4.38
1982	FA	499	Indepen.	Research & Special Work	2	100	1		
1982	FA	536	Sem.	Paleontology Seminar	1	33	5		
1982	FA	709	Indepen.	Thesis Research AM-MS	2	100	2		
1982	FA	929	Indepen.	Investigation	2	100	1		
1982	FA	990	Indepen.	Dissertation-Precandidate	8	100	1		
1983	WN	536	Sem.	Paleontology Seminar	1-2	33	7		
1983	WN	709	Indepen.	Thesis Research-M.S.	2-3	100	4		
1983	WN	995	Indepen.	Dissertation-Candidate	8	100	1		
1983	SU	440	Field	Field Geology	8	20	44		
1983	SU	709	Indepen.	Thesis Research-M.S.	6	100	1		
1983	FA	103	Lec.	Dinosaurs	1	100	350	4.04	4.40

1983	FA	109	Lec.	Fossils of Michigan	1	100	73	3.92	4.41
1983	FA	536	Sem.	Paleontology Seminar	1	33	6		
1983	FA	709	Indepen.	Thesis Research-M.S.	2-3	100	2		
1983	FA	990	Indepen.	Dissertation-Precandidate	2-6	100	2		
1983	FA	995	Indepen.	Dissertation-Candidate	8	100	1		
1984	WN	103	Lec.	Dinosaurs	1	100	210	4.10	4.46
1984	WN	499	Indepen.	Research & Special Work	1	100	1		
1984	WN	536	Sem.	Paleontology Seminar	1	33	4		
1984	WN	536-008	Sem.	Topics in Paleobiology	2	100	2 + 6		
1984	WN	709	Indepen.	Thesis Research-M.S.	2	100	3		
1984	WN	990	Indepen.	Dissertation-Precandidate	4	100	1		
1984	WN	995	Indepen.	Dissertation-Candidate	8	100	1		
1984	FA	103	Lec.	Dinosaurs	1	100	208	3.93	4.36
1984	FA	418	Lec.	Paleontology	3	100	17	4.07	4.50
1984	FA	419	Lab.	Paleontology Lab	1	100	7	4.38	4.38
1984	FA	499	Indepen.	Research & Special Work	1	100	1		
1984	FA	536	Sem.	Paleontology Seminar	1-2	33	5		
1984	FA	536-008	Sem.	Topics in Paleobiology	1-2	50	5 + 2		
1984	FA	929	Indepen.	Investigation	2	100			
1984	FA	990	Indepen.	Dissertation-Precandidate	2	100	2		
1984	FA	995	Indepen.	Dissertation-Candidate	8	100	1		
1985	WN	536	Sem.	Paleontology Seminar	1-2	33	3		
1985	WN	536-008	Sem.	Topics in Paleobiology	1-2	100	3		
1985	WN	929	Indepen.	Investigation	1	100	1		
1985	WN	990	Indepen.	Dissertation-Precandidate	1	100	1		
1985	WN	995	Indepen.	Dissertation-Candidate	8	100	2		
<b>1985</b>	<b>FA</b>			<b>Sabbatical Leave</b>					
1985	FA	536-008	Sem.	Topics in Paleobiology	1	100	3		
1985	FA	990	Indepen.	Dissertation-Precandidate	3	100	1		
1985	FA	995	Indepen.	Dissertation-Candidate	8	100	3		
<b>1986</b>	<b>WN</b>			<b>Sabbatical Leave</b>					
1986	WN	990	Indepen.	Dissertation-Precandidate	1	100	1		
1986	WN	995	Indepen.	Dissertation-Candidate	8	100	3		
1986	SU	995	Indepen.	Dissertation-Candidate	4-8	100	2		
1986	FA	418	Lec.	Paleontology	3	100	12	4.21	4.07
1986	FA	419	Lab.	Paleontology Lab	1	100	10	4.33	4.50
1986	FA	990	Indepen.	Dissertation-Precandidate	6	100	2		
1986	FA	995	Indepen.	Dissertation-Candidate	8	100	2		
1987	WN	536	Sem.	Paleontology Seminar	1	33	6		
1987	WN	990	Indepen.	Dissertation-Precandidate	6	100	1		
1987	WN	995	Indepen.	Dissertation-Candidate	8	100	2		
1987	SU	995	Indepen.	Dissertation-Candidate	4	100	2		
1987	FA	418	Lec.	Paleontology	3	100	12	3.92	4.38
1987	FA	419	Lab.	Paleontology Lab	1	100	7	4.83	4.17
1987	FA	536	Sem.	Paleontology Seminar	1-2	33	6		
1987	FA	990	Indepen.	Dissertation-Precandidate	2	100	1		
1987	FA	995	Indepen.	Dissertation-Candidate	8	100	3		
1988	WN	622	Lec/Sem	Principles of Paleontology	3	100	3+8		
1988	WN	709	Indepen.	Thesis Research-M.S.	2	100	1		
1988	WN	995	Indepen.	Dissertation-Candidate	8	100	3		
1988	SU	709	Indepen.	Thesis Research-M.S.	4	100	1		
1988	FA	418	Lec.	Paleontology	3	100	9	4.25	4.75
1988	FA	419	Lab.	Paleontology Lab	1	100	3	4.75	4.25
1988	FA	499	Indepen.	Research & Special Work	1	100	1		

1988	FA	536	Sem. Paleontology Seminar	1-2	33	3		
1988	FA	995	Indepen. Dissertation-Candidate	8	100	2		
1989	WN	536	Sem. Paleontology Seminar	1	33			
1989	WN	709	Indepen. Thesis AM-MS	1	100	1		
1989	WN	995	Indepen. Dissertation-Candidate	8	100	2		
1989	SU	709	Indepen. Thesis AM-MS	4	100	1		
1989	SU	995	Indepen. Dissertation-Candidate	8	100	2		
1989	FA	418	Lec. Paleontology	3	100	13	4.64	4.64
1989	FA	419	Lab. Paleontology Lab	1	100	7	4.00	4.67
1989	FA	536	Sem. Paleontology Seminar	1	33	2		
1989	FA	709	Indepen. Thesis AM-MS	3	100	1		
1990	WN	536	Sem. Paleontology Seminar	1-2	33	5		
1990	WN	990	Indepen. Dissertation-Candidate	6	100	1		
1990	SU	990	Indepen. Dissertation-Precandidate	4	100	1		
1990	FA	418	Lec. Paleontology	3	100	13	4.38	4.33
1990	FA	419	Lab. Paleontology Lab	3	100	4	4.17	4.50
1990	FA	499	Indepen. Research & Special Work	4	100	1		
1990	FA	536	Sem. Paleontology Seminar	1	33	3		
1990	FA	995	Indepen. Dissertation-Candidate	8	100	1		
1991	WN	536	Sem. Paleontology Seminar	1	33	2		
1991	WN	995	Indepen. Dissertation-Candidate	8	100	1		
1991	FA	418	Lec. Paleontology	3	100	14	4.36	4.00
1991	FA	419	Lab. Paleontology Lab	1	100	3	4.25	4.00
1991	FA	536	Sem. Paleontology Seminar	1	33	2		
1991	FA	995	Indepen. Dissertation-Candidate	8	100	1		
1992	WN	622	Lec/Sem Principles of Paleontology	3	100	4	4.83	5.00
1992	WN	995	Indepen. Dissertation-Candidate	8	100	1		
1992	SU	499	Indepen. Research & Special Work	3	100	1		
<b>1992</b>	<b>FA</b>		<b>Sabbatical Leave</b>					
1992	FA	498	Indepen. Research & Special Work	3	100	1		
1992	FA	995	Indepen. Dissertation-Candidate	8	100	1		
1993	WN	499	Indepen. Research & Special Work	2	100	1		
1993	WN	995	Indepen. Dissertation-Candidate	8	100	1		
1993	FA	418	Lec. Paleontology	3	100	17	4.38	4.33
1993	FA	419	Lab. Paleontology Lab	1	100	8	3.83	4.10
1993	FA	995	Indepen. Dissertation-Candidate	8	100	1		
1994	WN	536	Sem. Paleontology Seminar	1	33			
1994	WN	622	Lec/Sem Principles of Paleontology	3	100	5		
1994	WN	995	Indepen. Dissertation-Candidate	8	100	1		
1994	WN	Bio730	Indepen. Advanced Study	2	100	1		
1994	SP	995	Indepen. Dissertation-Candidate	4	100	1		
1994	SU	995	Indepen. Dissertation-Candidate	4	100	1		
1994	FA	418	Lec. Paleontology	3	100	11	4.25	4.25
1994	FA	498	Indepen. Research & Special Work	1	100	1		
1994	FA	536	Sem. Paleontology Seminar	1	33			
1994	FA	709	Indepen. Thesis AM-MS	2	100	1		
1994	FA	Bio990	Indepen. Dissertation-Precandidate	3	100	1		
1995	WN	499	Indepen. Ind. Res. & Special Work	1	100	1		
1955	WN	536	Sem. Paleontology Seminar	1	33			
1995	WN	709	Indepen. Thesis AM-MS	2	100	1		
1995	FA	418	Lec. Paleontology	3	100	8	4.92	4.80
1995	FA	419	Lab. Paleontology Lab	1	100	8	5.00	5.00
1995	FA	990	Indepen. Dissertation-Precandidate	4	100	1		
1995	FA	Bio990	Indepen. Dissertation-Precandidate	4	100	1		

1996	WN	536	Sem. Paleontology Seminar	1	33		
1996	WN	622	Lec/Sem Principles of Paleontology	3	100	5	5.0 5.0
1996	WN	990	Indepen. Dissertation-Precandidate	3-7	100	2	
1996	FA	418	Lec. Paleontology	3	100	17	4.70 4.77
1996	FA	419	Lab. Paleontology Lab	1	100	9	4.94 4.94
1996	FA	709	Indepen. Thesis AM-MS	3	100	1	
1996	FA	995	Indepen. Dissertation-Candidate	4-8	100	2	
1997	WN	536	Sem. Paleontology Seminar	1	33		
1997	WN	709	Indepen. Thesis AM-MS	2	100	1	
1997	WN	995	Indepen. Dissertation-Candidate	8	100	2	
1997	FA	418	Lec. Paleontology	3	100	21	4.59 4.67
1997	FA	419	Lab. Paleontology Lab	1	100	10	4.21 4.67
1997	FA	536	Sem. Paleontology Seminar	1	33		
1997	FA	709	Indepen. Thesis AM-MS	3	100	1	
1997	FA	995	Indepen. Dissertation-Candidate	8	100	2	
1998	WN	536	Sem. Paleontology Seminar	1	25	3	
1998	WN	622	Lec/Sem Principles of Paleontology	3	100	6	4.17 4.83
1998	WN	709	Indepen. Thesis AM-MS	3	100	1	
1998	WN	995	Indepen. Dissertation-Candidate	8	100	2	
1998	WN	UC280	Indepen. UROP Research Course		100	2	
1998	FA	418	Lec. Paleontology	3	100	21	3.91 4.0
1998	FA	419	Lab. Paleontology Lab	1	100	9	4.94 4.94
1998	FA	536	Sem. Paleontology Seminar	1	25		
1998	FA	929	Indepen. Investigation	2	100	1	
1998	FA	990	Indepen. Dissertation-Precandidate	8	100	1	
1998	FA	995	Indepen. Dissertation-Candidate	8	100	2	
1999	WN	536	Sem. Paleontology Seminar	1	25		
1999	WN	990	Indepen. Dissertation-Precandidate	5	100	1	
1999	WN	995	Indepen. Dissertation-Candidate	8	100	2	
1999	WN	UC280	Indepen. UROP Research Course		100	3	
<b>1999</b>	<b>FA</b>		<b>Sabbatical Leave</b>				
1999	FA	990	Indepen. Dissertation-Precandidate	5	100	1	
1999	FA	995	Indepen. Dissertation-Candidate	8	100	2	
1999	FA	536	Sem. Paleontology Seminar	1	25		
1999	FA	UC280	Indepen. UROP Research Course		100	3	
2000	WN	536	Sem. Paleontology Seminar	1	25		
2000	WN	UC280	Indepen. UROP Research Course		100	3	
2000	FA	536	Sem. Paleontology Seminar	1	25		
2000	FA	709	Indepen. Thesis AM-MS	2	100	1	
2000	FA	UC280	Indepen. UROP Research Course		100	5	
2001	WN	418	Lec. Paleontology	3	100	19	4.55 4.64
2001	WN	419	Lab. Paleontology Lab	1	100	11	4.83 4.95
2001	WN	536	Sem. Paleontology Seminar	1	25		
2001	WN	UC280	Indepen. UROP Research Course		100	5	
2001	FA	499	Indepen. Research & Special Work	3	100	2	
2001	FA	536	Sem. Paleontology Seminar	1	25		
2001	FA	UC280	Indepen. UROP Research Course	3	100	3	
2002	WN	418	Lec. Paleontology	3	100	27	4.13 4.54
2002	WN	419	Lab. Paleontology Lab	1	100	11	4.58 4.89
2002	WN	536	Sem. Paleontology Seminar	1	25		
2002	WN	622	Lec/Sem Princ. of Paleontology	3	100	7	4.67 4.67
2002	WN	UC280	Indepen. UROP Research Course	3	100	2	
2002	FA	536	Sem. Paleontology Seminar	1	25		
2002	FA	990	Indepen. Dissertation-Precandidate	2	100	1	

2002	FA	UC280	Indepen.	UROP Research Course	3	100	11		
2003	WN	418	Lec.	Paleontology	3	100	28	4.00	4.08
2003	WN	419	Lab.	Paleontology Lab	1	100	9		
2003	WN	498	Indepen.	Research & Special Work	3	100	2		
2003	WN	536	Sem.	Paleontology Seminar	1	25			
2003	WN	UC280	Indepen.	UROP Research Course	3	100	10		
2003	SP	498	Indepen.	Research & Special Work	2	100	1		
2003	FA	498	Indepen.	Research & Special Work	1	100	1		
2003	FA	536	Sem.	Paleontology Seminar	1	25			
2003	FA	990	Indepen.	Dissertation-Precandidate	2	100	1		
2003	FA	UC280	Indepen.	UROP Research Course	3	100	7		
2004	WN	418	Lec.	Paleontology	3	100	24	4.00	4.14
2004	WN	419	Lab.	Paleontology Lab	1	100	9	4.14	3.86
2004	WN	990	Indepen.	Dissertation-Precandidate	6	100	1		
2004	WN	UC280	Indepen.	UROP Research Course	3	100	7		
2004	FA	510	Lec.	Analytical Paleobiology	4	25	9	4.83	4.93
2004	FA	990	Indepen.	Dissertation-Precandidate	8	100	1		
2004	FA	UC280	Indepen.	UROP Research Course	3	100	7		
2005	WN	418	Lec.	Paleontology	3	100	21	4.08	4.17
2005	WN	419	Lab.	Paleontology Lab	1	100	5	4.67	4.25
2005	WN	536	Sem.	Paleontology Seminar	1	25			
2005	WN	622	Lec/Sem	Princ. of Paleontology	3	100	6	4.5	5.0
2005	WN	990	Indepen.	Dissert.-Precandidate	2	100	1		
2005	WN	UC280	Indepen.	UROP Research Course	3	100	6		
2005	FA	536	Sem.	Paleontology Seminar	1	25			
2005	FA	995	Indepen	Dissertation-Candidate	8	100	1		
2005	FA	UC280	Indepen.	UROP Research Course	3	100	7		
2006	WN	418	Lec.	Paleontology	3	100	21	4.3	4.5
2006	WN	419	Lab.	Paleontology Lab	1	100	8	4.1	4.7
2006	WN	536	Sem.	Paleontology Seminar	1	25			
2006	WN	995	Indepen	Dissertation-Candidate	8	100	1		
2006	WN	UC280	Indepen.	UROP Research Course	3	100	5		
2006	SM	498	Indepen	Research & Special Work	2	100	1		
2006	FA	498	Indepen	Research & Special Work	4	100	1		
2006	FA	510	Lec.	Analytical Paleobiology	4	33	7	4.63	4.92
2006	FA	995	Indepen	Dissertation-Candidate	4	100	1		
2006	FA	UC280	Indepen.	UROP Research Course	3	100	4		
2007	WN	418	Lec.	Paleontology	3	100	25	4.22	4.54
2007	WN	419	Lab.	Paleontology Lab	1	100	8	4.30	4.83
2007	WN	499	Indepen	Research & Special Work	5	100	1		
2007	WN	536	Sem.	Paleontology Seminar	1	25			
2007	WN	995	Indepen	Dissertation-Candidate	8	100	1		
2007	WN	UC280	Indepen.	UROP Research Course	3	100	4		
2007	FA	536	Sem.	Paleontology Seminar	1	25	4		
2007	FA	995	Indepen	Dissertation-Candidate	8	100	2		
2007	FA	UC280	Indepen.	UROP Research Course	3	100	3		
2008	WN	418	Lec.	Paleontology	3	100	29	3.86	4.17
2008	WN	419	Lab.	Paleontology Lab	1	100	11	4.58	4.89
2008	WN	536	Sem.	Paleontology Seminar	1	25	2		
2008	WN	995	Indepen	Dissertation-Candidate	8	100	2		
2008	WN	UC280	Indepen.	UROP Research Course	3	100	3		
2008	FA	536	Sem.	Paleontology Seminar	1	25			
2008	FA	995	Indepen	Dissertation-Candidate	8	100	2		
2008	FA	UC280	Indepen.	UROP Research Course	3	100	3		



2009	WN	418	Lec.	Paleontology	3	100	22	Syst Crsh
2009	WN	419	Lab.	Paleontology Lab	1	100	10	4.63 4.13
2009	WN	536	Sem.	Paleontology Seminar	1	25	2	
2009	WN	995	Indepen	Dissertation-Candidate	8	100	2	
2009	WN	UC280	Indepen.	UROP Research Course	3	100	3	
2009	SS	995	Indepen	Dissertation-Candidate	8	100	1	
2009	FA	536	Sem.	Paleontology Seminar	1	25	2	
2009	FA	995	Indepen	Dissertation-Candidate	8	100	1	
2009	FA	UC280	Indepen.	UROP Research Course	3	100	4	
2010	WN	418	Lec.	Paleontology	3	100	22	3.38 3.67
2010	WN	419	Lab.	Paleontology Lab	1	100	9	4.75 4.75
2010	WN	536	Sem.	Paleontology Seminar	1	25	2	
2010	WN	995	Indepen	Dissertation-Candidate	8	100	1	
2010	WN	UC280	Indepen.	UROP Research Course	3	100	3	
2010	SS	995	Indepen	Dissertation-Candidate	8	100	1	
2010	FA	490	Indepen	Geology Honors	1	100	2	
2010	FA	536	Sem.	Paleontology Seminar	1	25	2	
2010	FA	UC280	Indepen.	UROP Research Course	3	100	1	
2011	WN	418	Lec.	Paleontology	3	100	26	4.56 4.75
2011	WN	419	Lab.	Paleontology Lab.	1	100	7	
2011	WN	490	Indepen	Geology Honors	2	100	1	
2011	WN	499	Indepen	Res. & Special Work	2	100	1	
2011	WN	536	Sem.	Paleontology Seminar	1	25		
2011	FA	496	Sem.	Topics in GeoSci	3	0	3	
2011	FA	498	Indepen	Res. & Special Work	1-4	100	5	
2011	FA	536	Sem.	Paleontology Seminar	1	25		
2012	WN	299	Indepen	Independent Study	1	100	1	
2012	WN	418	Lec.	Paleontology	3	100	29	4.06 4.71
2012	WN	419	Lab.	Paleontology Lab.	1	100	18	
2012	WN	499	Indepen	Independent Study	1-2	100	2	
2012	WN	536	Sem.	Paleontology Seminar	1	25		
2012	WN	599	Indepen	Independent Study	8	100	1	
2012	WN	730	Indepen	Advanced Study	4	100	1	
2012	FA	490	Indepen	Geology Honors	1	100	1	
2012	FA	498	Indepen	Independent Study	1	100	2	
2012	FA	536	Sem.	Paleontology Seminar	1	25		
2012	FA	995	Indepen	Dissertation-Candidate	8	100	1	
2013	WN	490	Indepen	Geology Honors	2	100	1	
2013	WN	499	Indepen	Res. & Special Work	1	100	1	
2013	WN	995	Indepen	Dissertation-Candidate	8	100	1	
2013	FA	490	Indepen	Geology Honors	2	100	1	
2013	FA	995	Indepen	Dissertation-Candidate	8	100	1	
2014	WN	418	Lec.	Paleontology	3	100	31	3.67 4.21
2014	WN	419	Lab.	Paleontology Lab.	1	100	19	
2014	WN	490	Indepen	Geology Honors	1	100	1	
2014	WN	599	Indepen	Independent Study	7	100	1	
2014	WN	995	Indepen	Dissertation-Candidate	8	100	1	

## STUDENT SUPERVISION

*Undergraduates* (since 1994)

1994 - 1995

Stacey Krause

Anthropology (Honor's project)

Jason Lucas

Anthropology, Eastern Michigan University (Independent study project)

1995 - 1996	
Stacey Krause	Anthropology (Honor's project)
Matt Zinsmeister	Geology, Purdue University (Independent study project)
Kristi Arntsen	Anthropology (Honor's project)
1996 - 1997	
Kristi Arntsen	Anthropology (Honor's project)
William Hubbard	Geology, Wooster College, Ohio (Honor's project)
1997 - 1998	
William Hubbard	Geology, Wooster College, Ohio (Honor's project)
Betsy Madden	UROP project on late Pleistocene mastodon tusks
Julie Lehman	UROP project on late Pleistocene mastodon tusks
1998 - 1999	
Betsy Madden	UROP project on late Pleistocene mastodon tusks
Julie Lehman	UROP project on late Pleistocene mastodon tusks
Melanie R. Bui	UROP project on 3D digitizing of mastodon bones
Erik Preiditsch	UROP project on 3D digitizing of mastodon bones
David P. Victor	UROP project on 3D digitizing of mastodon bones
1999 - 2000	
Melanie R. Bui	UROP project on 3D digitizing of mastodon bones
Michael Bourland	UROP project on 3D digitizing of mastodon bones
Jonathon Rennella	UROP project on 3D digitizing of mastodon bones
David P. Victor	UROP project on 3D digitizing of mastodon bones
Yang Wen	UROP project on 3D digitizing of mastodon bones
Doug Boyer	3D digitizing of mastodon bones
Ellen Dillon	Reconstruction of Buesching mastodon tusk
Brian Schuch	Oxygen isotopes in biogenic phosphate (reader of honor's thesis)
2000 - 2001	
Arndrea Lewis	UROP project on 3D digitizing of mastodon bones
Maria Sprow	UROP project on 3D digitizing of mastodon bones
Lisa Vo	UROP project on 3D digitizing of mastodon bones
Jonny Rennella	UROP project on 3D digitizing of mastodon bones
Ryan Falor	UROP project on 3D digitizing of mastodon bones
Shin Kobayashi	UROP project on 3D digitizing of mastodon bones
Yang Wen	UROP project on 3D digitizing of mastodon bones
Gretchen Moeser	3D digitizing of mastodon bones
Bart Fencil	3D digitizing of mastodon bones
Ellen Dillon	Reconstruction of Buesching mastodon tusk
Erin Himrod	Reconstruction of Buesching mastodon tusk
Ronnie Order	Reconstruction of Buesching mastodon tusk
2001 - 2002	
Michael Frederich	UROP project on 3D digitizing of mastodon bones
Kathryn Page	UROP project on 3D digitizing of mastodon bones
Gerwin Westfield	UROP project on 3D digitizing of mastodon bones
Nicholas Perez	Independent study on 3D digitizing of mastodon bones
Lisa Vo	Independent study on 3D digitizing of mastodon bones
2002 - 2003	
Charlie Dennis	Work/study, 3D digitizing of mastodon bones
Michael Adams	UROP project on molding/casting mastodon skeletons
Rudolph Becker	UROP project on molding/casting mastodon skeletons
Mia Browne	UROP project on molding/casting mastodon skeletons
Marie Choi	UROP project on molding/casting mastodon skeletons
Jonathan Falk	UROP project on molding/casting mastodon skeletons
Lynn Fetch	UROP project on molding/casting mastodon skeletons

Amber Heard	UROP project on molding/casting mastodon skeletons
Hannah Israel	UROP project on molding/casting mastodon skeletons
John Lim	UROP project on molding/casting mastodon skeletons
Lia Min	UROP project on molding/casting mastodon skeletons
Ranjan Radhamohan	UROP project on molding/casting mastodon skeletons
John Graf	Work/study, molding and casting mastodon skeletons
Jennifer Scroggins	Work/study, molding and casting mastodon skeletons
Michelle Stocker	Work/study, molding and casting mastodon skeletons
Brad Deline	Work/study, 3D digitizing of carpod echinoderms
Molly VanAppledorn	Independent study on musculoskeletal anatomy of elephants
2003 - 2004	
Michael Adams	Work/study, molding/casting mastodon skeletons
Maria Dzul	UROP project on molding/casting mastodon skeletons
Kelly Iknayan	UROP project on molding/casting mastodon skeletons
Anna Johnson	UROP project on molding/casting mastodon skeletons
Priyanka Pathak	UROP project on molding/casting mastodon skeletons
Marcin Rejniak	UROP project on molding/casting mastodon skeletons
Ashley Smetana	UROP project on molding/casting mastodon skeletons
Ho Yan Yiu	UROP project on molding/casting mastodon skeletons
Brad Deline	Work/study, C-, O-isotopes in mastodon tusk dentin
Molly VanAppledorn	Independent study on musculoskeletal anatomy of elephants
2004 - 2005	
Kevin Blas	UROP project on molding/casting mastodon skeletons
Lauren Koch	UROP project on molding/casting mastodon skeletons
Liang Tao	UROP project on molding/casting mastodon skeletons
Anna Prushinskaya	UROP project on molding/casting mastodon skeletons
Elizabeth Olson	UROP project on molding/casting mastodon skeletons
Kathleen Ku	UROP project on molding/casting mastodon skeletons
Renu Rao	UROP project on molding/casting mastodon skeletons
2005 - 2006	
Jacob Begres	UROP project on molding/casting mastodon skeletons
Michael Conway-Semanski	UROP project on molding/casting mastodon skeletons
Kristin Fisher	UROP project on molding/casting mastodon skeletons
Ilissa Ocko	UROP project on molding/casting mastodon skeletons
Jordan Rhodes	UROP project on molding/casting mastodon skeletons
Megan Rourk	UROP project on molding/casting mastodon skeletons
Monica Wu	UROP project on molding/casting mastodon skeletons
Jesse Ortega	Lab assistant, molding/casting mastodon skeletons
Derek Raisanen	Lab assistant, molding/casting mastodon skeletons
2006 - 2007	
Emily Potter	UROP project on Bothwell mastodon tusks
Megan Rourk	UROP project on molding/casting mastodon skeletons
Kevin Thomas	UROP project on Bothwell mastodon tusks
Joseph Yonkoski	UROP project on Bothwell mastodon tusks
Ada Dominguez	Lab assistant, 3D modeling of bones
Derek Raisanen	Lab assistant, molding/casting mastodon skeletons
Sara Worsham	Independent study on Bothwell mastodon tusks
2007 - 2008	
Bailey Benson	UROP project on Bothwell mastodon tusks
Laura Palm	UROP project on molding/casting mastodon skeletons
Heather Sanders	UROP project on Bothwell mastodon tusks
Joseph Yonkoski	Lab assistant, molding/casting mastodon skeletons
Lara Ghisleni	Lab assistant, molding/casting mastodon skeletons
Derek Raisanen	Lab assistant, molding/casting mastodon skeletons

Lauren Miller	Lab assistant, molding/casting mastodon skeletons
Matthew Sinclair	Lab assistant, molding/casting mastodon skeletons
2008 - 2009	
Mallorie King	UROP project on molding/casting mastodon skeletons
Brianna Sabol	UROP project on molding/casting mastodon skeletons
Sara Wyczalek	UROP project on molding/casting mastodon skeletons
Laura Palm	Lab assistant, molding/casting mastodon skeletons
Alexander Duvall-Lash	Lab assistant, molding/casting mastodon skeletons
Ethan Shirley	Lab assistant, molding/casting mastodon skeletons
2009 - 2010	
Molly Brandt	UROP project on molding/casting mastodon skeletons
Phillip Cervantes	UROP project on molding/casting mastodon skeletons
Brianne Duross	UROP project on molding/casting mastodon skeletons
Matthew Transeth	UROP project on molding/casting mastodon skeletons
Alexander Duvall-Lash	Lab assistant, molding/casting mastodon skeletons
Ethan Shirley	Lab assistant, molding/casting mastodon skeletons
2010 - 2011	
Carlea Hazzard	UROP project on CT data processing re mammoth osteology
Ethan Shirley	Independent research, CT data processing re mammoth osteology
Alistair Hayden	Honors research project modeling tusk growth in mammoths
Chris Whalen	Mammoth osteology, Amira processing of CT data
Zachary Calamari	Mastodon osteology, 3D texture mapping
Patrick Lind	Mastodon osteology, photo masking
Helen DeMarsh	Lab assistant, casting mastodon skeletons
2011 - 2012	
Ethan Shirley	Independent research, CT data processing re mammoth osteology
Chris Whalen	Mammoth osteology, Amira processing of CT data
Zachary Calamari	Mastodon osteology, 3D texture mapping
Patrick Lind	Mastodon osteology, photo masking
Sarah Fellbaum	UROP project on bone digitizing and 3D texture mapping
Helen DeMarsh	Lab assistant, casting mastodon skeletons
Alex Dinello	Mammoth osteology, bone digitizing and 3D texture mapping
Caleb Fogel	Mammoth osteology, bone digitizing and 3D texture mapping
Ryan Gabelman	Mammoth osteology, bone digitizing and 3D texture mapping
Josie Keenan	Mammoth osteology, bone digitizing and 3D texture mapping
2012 - 2013	
Elizabeth Potter	UROP Project on 3D modeling of the Riley mammoth site
Ethan Shirley	Independent research, CT data processing re mammoth osteology
Chris Whalen	Mammoth osteology, Amira processing of CT data
Zachary Calamari	Mastodon osteology, 3D texture mapping
Sarah Fellbaum	Mammoth osteology, bone digitizing and 3D texture mapping
Caleb Fogel	Mammoth osteology, bone digitizing and 3D texture mapping
Ryan Gabelman	Mammoth osteology, bone digitizing and 3D texture mapping
Alex Wozniak	UROP project on mammoth osteology and bone digitizing
Meredith Dennis	Molding and casting Snowmass mastodon tusks and molars
2013 - 2014	
<b>Sarah Fellbaum</b>	<b>Mammoth osteology, bone digitizing and 3D texture mapping</b>
<b>Caleb Fogel</b>	<b>Mammoth osteology, bone digitizing and 3D texture mapping</b>
<b>Ethan Shirley</b>	<b>Independent research, CT data processing re mammoth osteology</b>
<b>Chris Whalen</b>	<b>Mammoth osteology, Amira processing of CT data</b>
<b>Jessica Hicks</b>	<b>Stable isotope laboratory assistant</b>
<b>Max Carrillo-Ostrow</b>	<b>UROP Project on Mastodon osteology, 3D texture mapping</b>
<b>Madalyn Purcell</b>	<b>UROP Project on Mastodon osteology, 3D texture mapping</b>
<b>Thomas West</b>	<b>UROP Project on Mastodon osteology, 3D texture mapping</b>

2014 – 2015

**Ethan Shirley**      **Independent research, CT data processing re mammoth tusk structure**  
**Jessica Hicks**      **Stable isotope laboratory assistant**  
**Katrina Lewandowski**      **Mammoth tooth structure and season of death**  
**Meredith Dennis**      **Research casts of the Buesching and Hyde Park mastodons**

*Undergraduate Honors Students*

1995 - 1996      Stacey Krause, Anthropology (Honor's project)  
 1996 - 1997      Kristi Arntsen, Anthropology (Honor's project)  
 1997 - 1998      William Hubbard, Geology, Wooster College, Ohio (Honor's project)  
 2010 - 2011      Alistair Hayden, Coiling geometry of proboscidean tusks; DCF (100%)  
 2012 - 2014      **Christopher Whalen, 3D morphometrics of mammalian ribs**

*M.S. Students*

1979 - 1981      William Bartels, Functional morphology of alligatorids; DCF (50%), PDG (50%); currently Professor, Albion College  
 1979 - 1981      Sandra J. Carlson, Functional analysis of a carpoid anlacophone; DCF (100%); currently Professor, University of California, Davis  
 1980 - 1982      Colin W. Baker, Evolution and hybridization in the radiolarian genera *Theocorythium* and *Lamprocyclus*; DCF (100%); no current information  
 1981 - 1984      Heyo Van Iten, Microstructural and mineralogical analysis of the meroms of the Ordovician receptaculitid *Fisherites reticulatus*; DCF (100%); currently Associate Professor, Hanover College  
 1981 - 1984      L. L. Krakker, Orientation of crystallographic axes in the stylocones of *Enoploura*, an Ordovician mitrate echinoderm; DCF (100%); no current information  
 1982 - 1985      Bret S. Beall, Functional morphology and paleoecology of the Phalangiotrabida; DCF (100%); currently business manager for a professional society, Chicago, Illinois  
 1982 - 1984      Paul L. Koch, Clinal variation in modern mammals: implications for interpreting lineage evolution in the fossil record; DCF (50%), PDG (50%); currently Professor, University of California, Santa Cruz  
 1987 - 1990      Brian E. Bodenbender, Crystallographic axis orientations in edrioasteroid skeletal elements; DCF (100%); currently Associate Professor, Hope College  
 1993 - 1995      David L. Fox, Growth increments in *Gomphotherium* tusks and implications for Miocene climate change; DCF (100%); currently Assistant Professor, University of Minnesota  
 1993 - 1995      Talia M. Sher, Sexual dimorphism of late Pleistocene mastodons (*Mammot americanum*); Department of Biology; DCF (100% ); currently staff writer for the New England Journal of Medicine  
 1996 - 1999      Joshua A. Trapani, The Schreger pattern in mastodon, gomphothere, and mammoth tusk dentin; DCF (100%); completed UM Ph.D. in 2002  
 2000 - 2002      Mark Nabong, Sexual dimorphism in Siberian mammoths, *Mammuthus primigenius*; DCF (50%), TKB (50%) [withdrew without degree]  
 2002 - 2004      Sarah Jarvis, Strontium isotope evidence of migration in woolly mammoths; DCF (100%) [withdrew without degree]  
 2003 - 2006      Adam Rountrey, Stable isotope analyses (C, O, N) of juvenile woolly mammoth tusks; DCF (100%)  
 2014 - 2015      **Jordan Hood, Tooth structure, development, and season of death of Snowmass mastodons; DCF (100%)**

*Member of M.S. thesis committee for:*

1986 - 1988      Gabrielle Kardon - Geological Sciences  
 1986 - 1988      Elisabeth E. Culotta - Geological Sciences  
 1991 - 1993      Mark Uhen - Geological Sciences  
 1993 - 1994      Lisa Churchill - Geological Sciences

1998 - 1999 Kristina Rhode - School of Natural Resources and the Environment  
 1999 - 2001 Alexander Bradley - Geological Sciences  
 2010 - 2011 Mairin Balisi - Ecology and Evolutionary Biology

*Ph.D. Students*

1979 - 1981 R. E. Chapman, Morphologic evolution in the North American Upper Cambrian pterocephaliid trilobites; SUNY Stony Brook; co-chaired with A. R. Palmer(80%), DCF (20%); currently IT manager, Smithsonian Institution, Washington, D.C.  
 1979 - 1980 Liudmila Voskov, Ordovician and Lower Silurian bivalves of the Upper Peninsula of Michigan; DCF (50%), R. V. Kesling (50%); no current information  
 1980 - 1983 Roy E. Plotnick, Pattern and process in the evolution of the Eurypterida; University of Chicago; J. J. Sepkoski (75%), DCF (25%); currently Professor, University of Illinois at Chicago  
 1981 - 1986 Sandra J. Carlson, Ontogenetic and evolutionary trends in the articulate brachiopod hinge mechanism; DCF (100%); currently Professor, University of California, Davis  
 1983 - 1988 R. S. Cox, Morphological and molecular approaches to the phylogeny of the Deuterostomata; DCF (100%); currently Research Curator, American Philosophical Society, Philadelphia, Pennsylvania  
 1984 - 1989 Heyo Van Iten, Paleobiology and evolutionary affinities of the Conulariida; DCF (100%); currently Associate Professor, Hanover College  
 1986 - 1989 Paul L. Koch, Accretionary banding, stable isotopes, and the paleobiology of mastodonts and mammoths; DCF (100%); currently Professor, University of California, Santa Cruz  
 1986 - [1992] Bret S. Beall, Phylogenetic analysis of the Arachnida, with emphasis on Paleozoic forms; DCF (100%); [did not complete degree] currently business manager for a professional society, Chicago, Illinois  
 1990 - 1994 Brian E. Bodenbender, Skeletal crystallography in cladistic and stratocladistic investigations of blastoid phylogeny; DCF (100%); currently Associate Professor, Hope College  
 1994 - [1995] Talia M. Sher, Sexual dimorphism of late Pleistocene mastodons (*Mammuth americanum*); Department of Biology [did not complete degree]; DCF (100%); currently staff writer for the New England Journal of Medicine  
 1995 - 1999 David L. Fox, Carbon and oxygen isotope composition of *Gomphotherium* tusks: reconstructing diet and climate change in North America during the Late Miocene; DCF (100%); currently Associate Professor, University of Minnesota  
 1995 - 1999 Lindsey R. Leighton, Functional and evolutionary morphology of productidine (Brachiopoda) spines; DCF (67%), TKB (33%); currently Associate Professor, University of Edmonton  
 2005 - 2009 Adam N. Rountrey, Life history analyses of juvenile woolly mammoths; DCF (100%); currently Research Assistant Professor, University of Western Australia, Perth  
 2006 - 2010 Kathlyn M. Smith, Life history analyses of female mastodons; DCF (100%); currently Assistant Professor, University of South Georgia  
 2011 - **date** **Michael D. Cherney, Paleobiology of Snowmass mastodons and Siberian woolly mammoths; DCF (100%)**  
 2012 - **date** **Joseph El Adli, Paleobiology and extinction of Wrangel mammoths; DCF (100%)**

*Member of Ph.D. dissertation committees for:*

1979 - 1980 Dave Liddell - Geological Sciences  
 1979 - 1981 David W. Krause - Geological Sciences  
 1979 - 1980 David Wight - Biology  
 1979 - 1981 Ruth Elder - Geological Sciences  
 1986 - 1988 B. Lundrigan - Biology  
 1980 - 1981 Garland Upchurch - Biology  
 1980 - 1981 David Blake - Geological Sciences

1988 - 1990 Johannes G. M. Thewissen - Geological Sciences  
 1988 - 1991 Paulo Buckup - Biology  
 1988 - 1992 Jeffrey L. Boore - Biology  
 1989 - 1990 Ralph F. Stearley - Geological Sciences  
 1989 - 1991 Lisa Vawter - Biology  
 1989 - 1995 James S. Albert - Biology  
 1990 - 1994 Robert K. Carr - Geological Sciences  
 1990 - 1995 Xiao-Yuan Zhou - Geological Sciences  
 1991 - 1994 David L. Dettman - Geological Sciences  
 1991 - 2001 Jill A. McMahon - Geological Sciences (ABD)  
 1993 - 1996 Mark D. Uhen - Geological Sciences  
 1993 - 1996 Benjamin Fitzhugh - Anthropology  
 1994 - 1997 William C. Clyde - Geological Sciences  
 1994 - 2000 Aaron J. Stutz - Anthropology  
 1994 - 1998 Brad R. Moon - Biology  
 1994 - 1998 Christine Thacker - Biology  
 1994 - 1998 Shane A. Webb - Biology  
 1995 - 1996 Robert T. Klein - Geological Sciences  
 1996 - 2002 Jennifer Ast - Ecology and Evolutionary Biology  
 1996 - 1999 Benjamin Salisbury - Biology  
 1997 - 2000 Matthew Julius - School of Natural Resources and the Environment  
 1997 - 2001 Jonathon I. Bloch - Geological Sciences  
 1999 - 2004 Ross Secord - Geological Sciences  
 2001 - 2006 Heok Hee Ng - Ecology and Evolutionary Biology  
 2001 - 2004 Eugene Morin - Anthropology  
 2002 - 2004 Forest Gahn - Geological Sciences  
 2002 - 2008 Iyad Zalmout - Geological Sciences  
 2002 - 2009 Eladio Marquez - Ecology and Evolutionary Biology  
 2003 - 2006 Prosanta Chakrabarty - Ecology and Evolutionary Biology  
 2003 - 2010 Maria Marcano - Geological Sciences  
 2003 - 2004 Tawny Seaton - Geological Sciences [withdrew with M.S. only]  
 2003 - 2004 Heather Ray - Physics  
 2003 - 2006 Amanda Ash Dasch - Geological Sciences  
 2005 - 2006 Liz Smith - Geological Sciences [withdrew with M.S. only]  
 2005 - 2009 Aaron Wood - Geological Sciences  
 2005 - 2009 Jamie Clark - Anthropology  
 2005 - 2012 Lucia Luna Wong - Ecology and Evolutionary Biology  
 2006 - 2011 Ryan Bebej - Ecology and Evolutionary Biology  
 2006 - 2008 Jeremy DeSilva - Anthropology  
 2006 - 2009 Devapriya Chattopadhyay - Geological Sciences  
 2008 - 2011 Michael D'Emic - Geological Sciences  
 2008 - 2011 Alex Janevski - Geological Sciences  
 2009 - 2012 Kevin Uno – Geology & Geophysics, University of Utah  
 2011 - **2014** **Valerie Syverson – Earth and Environmental Sciences**  
 2011 - **2014** **Alex Voorhies – Earth & Environmental Sciences**  
 2012 - **date** **Tara Smiley – Earth & Environmental Sciences**  
 2012 - **date** **Ashley Lemke – Anthropology**  
 2013 - **2014** **Matthew Kroot -- Anthropology**  
 2013 - **date** **John Fronimos – Earth & Envirnomental Sciences**  
**2014 - date** **Jeff Shi – Ecology & Evolutionary Biology**  
**2014 - date** **Katie Loughney – Earth & Environmental Sciences**

## POSTDOCTORAL/RESEARCH FELLOWS

2009 - 2011 Adam Rountrey – “Developmental dynamics of enamel formation”

## VISITING SCHOLARS HOSTED

None

## PUBLICATIONS

*Peer-reviewed Papers and Chapters* [h = 27; computed using Google Scholar “My Citations”; better coverage than ISI, though still incomplete; orchid.org/0000-0001-5378-0520; student coauthors indicated by \*]

- Fisher, D.C. 1975. Swimming and borrowing in *Limulus* and *Mesolimulus*. *Fossils and Strata* No. 4: 281-290. Proceedings of a NATO Advanced Study Institute: Evolution and Morphology of the Trilobita, Trilobitoidea, and Merostomata. [27 citations]
- Fisher, D.C. 1977. Functional significance of spines in the Pennsylvanian horseshoe crab *Euproops danae*. *Paleobiology* 3(2): 175-195. [27 citations]
- Fisher, D.C. and M.H. Nitecki. 1978. Morphology and arrangement of meromes in *Ischadites dixonensis*, an Ordovician receptaculid. *Fieldiana: Geology* 39(2):17-31. [5 citations]
- Fisher, D.C. 1979. Evidence for subaerial activity of *Euproops danae* (Merostomata, Xiphosurida). In: *Mazon Creek Fossils* (M.H. Nitecki, editor), Academic Press, New York, pp. 379-447. [40 citations]
- Fisher, D.C. 1981. The role of functional analysis in phylogenetic inference: examples from the history of the Xiphosura. *American Zoologist* 21: 62-77. [33 citations]
- Fisher, D.C. 1981. Crocodylian scatology, microvertebrate concentrations, and enamel-less teeth. *Paleobiology* 7(2): 262-275. [101 citations]
- Fisher, D.C. 1981. Mode of preservation of the Shotgun local fauna (Paleocene, Wyoming) and its implication for the taphonomy of a microvertebrate concentration. *Contributions from the Museum of Paleontology, University of Michigan* 25(12): 247-257. [11 citations]
- Fisher, D.C. 1981. Taphonomic interpretations of enamel-less teeth in the Shotgun local fauna (Paleocene, Wyoming). *Contributions from the Museum of Paleontology, University of Michigan* 25(13): 259-275. [20 citations]
- Fisher, D.C. and M.H. Nitecki. 1982. Standardization of the anatomical orientation of receptaculids. *Paleont. Soc. Mem. 13, Journal of Paleontology* 56 (1, Supp.): 1- 40. [6 citations]
- Fisher, D.C. 1982. Phylogenetic and macroevolutionary patterns within the Xiphosurida. *Third North American Paleontological Convention, Proceedings* 1: 175-180. [35 citations]
- Fisher, D.C. and M.H. Nitecki. 1982. Problems in the analysis of receptaculid affinities. *Third North American Paleontological Convention, Proceedings* 1: 181-186.
- Fisher, D.C. 1984. Mastodon butchery by North American Paleo-Indians. *Nature* 308(5956): 271-272. [37 citations]
- Fisher, D.C. 1984. The Xiphosurida: archetypes of bradytely? In: *Living Fossils* (N. Eldredge and S. M. Stanley, editors), Springer-Verlag, New York, pp. 196-213. [47 citations]
- Fisher, D.C. 1984. Taphonomic analysis of late Pleistocene mastodon occurrences: evidence of butchery by North American Paleo-Indians. *Paleobiology* 10(3): 338-357. [51 citations]
- Shipman, P., D.C. Fisher, and J.J. Rose. 1984. Mastodon butchery: microscopic evidence of carcass processing and bone tool use. *Paleobiology* 10(3): 358-365. [63 citations]
- Fisher, D.C. 1985. Evolutionary morphology: beyond the analogous, the anecdotal, and the ad hoc. *Paleobiology* 11(1): 120-138. [65 citations]
- Essene, E.J. and D.C. Fisher. 1986. Lightning strike fusion: extreme reduction and metal-silicate liquid immiscibility. *Science* 234(4773): 189-193. [36 citations]
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