

**Raymond R. Rogers**  
**Professor**  
**Geology Department**  
**Macalester College**

**I. EDUCATION**

1985                      B.S., Northern Arizona University, Department of Geology  
1989                      M.S., University of Montana, Geoscience Department  
1995                      Ph.D., University of Chicago, Department of Geophysical Sciences

**II. ACADEMIC POSITIONS AND AFFILIATIONS**

9/1995-8/1997        Assistant Professor, Department of Geology, Cornell College  
9/1997-present       Assistant/Associate/Full Professor/Chair (2002-2011, 2016-2019),  
Geology Department, Macalester College  
5/2006-present       Adjunct Professor and Advising Member of the Graduate College,  
Department of Geology and Geophysics, University of Minnesota  
9/2016-present       Research Associate, Department of Earth Sciences, Denver  
Museum of Nature and Science

**III. PUBLICATIONS**

**(Articles in Peer-Reviewed Journals - 46)**

*\*red denotes student author (past or present advisee)*

- Rogers, R.R. 1990. Taphonomy of three dinosaur bone beds in the Upper Cretaceous Two Medicine Formation, northwestern Montana: Evidence for drought-related mortality: *Palaios* 5: 394-413.
- Rogers, R.R. 1992. Non-marine borings in dinosaur bones from the Upper Cretaceous Two Medicine Formation, northwestern Montana: *Journal of Vertebrate Paleontology* 12: 528-531.
- Sereno, P.C., C.A. Forster, R.R. **Rogers**, and A.M. Monetta. 1993. Primitive dinosaur skeleton from Argentina and the early evolution of Dinosauria: *NATURE* 361: 64-66.
- Rogers, R.R., C.C. Swisher III, P.C. Sereno, A.M. Monetta, C.A. Forster, and R.N. Martinez. 1993. The Ischigualasto tetrapod assemblage (Late Triassic, Argentina) and the  $^{40}\text{Ar}/^{39}\text{Ar}$  dating of dinosaur origins: *SCIENCE* 260: 794-797.
- Rogers, R.R., and M. LaBarbera. 1993. Contribution of internal bony trabeculae to the mechanical properties of the humerus of the pigeon (*Columba livia*): *Journal of Zoology, London* 230: 433-441.
- Rogers, R.R., C.C. Swisher, and J.R. Horner. 1993.  $^{40}\text{Ar}/^{39}\text{Ar}$  age and correlation of the non-marine Two Medicine Formation (Upper Cretaceous), northwestern Montana: *Canadian Journal of Earth Sciences*, 30: 1066-1075.
- Rogers, R.R. 1994. Nature and origin of through-going discontinuities in nonmarine foreland basin deposits, Upper Cretaceous, Montana: Implications for sequence analysis: *Geology* 22: 1119-1122.
- Rogers, R.R. 1998. Sequence analysis of the Upper Cretaceous Two Medicine and Judith River formations, Montana: nonmarine response to the Claggett and Bearpaw marine cycles: *Journal of Sedimentary Research* 68: 615-631.
- Krause, D.W., **R.R. Rogers**, C.A. Forster, J.H. Hartman, G.A. Buckley, and S.D. Sampson, 1999. The Late Cretaceous vertebrate fauna of Madagascar: Implications for Gondwanan Paleobiogeography: *GSA TODAY* 9: 1-7.
- Schweitzer, M.H., J.A. Watt, R. Avci, C.A. Forster, D.W. Krause, L. Knapp, **R.R. Rogers**, I. Beech, and M. Marshall. 1999. Keratin immunoreactivity in the Late Cretaceous bird *Rahonavis ostromi*: *Journal of Vertebrate Paleontology* 19: 712-722.

- Rogers, R.R., and S.M. Kidwell, 2000. Associations of vertebrate skeletal concentrations and discontinuity surfaces in nonmarine and shallow marine records: A test in the Cretaceous of Montana: *Journal of Geology* 108: 131-154.
- Rogers, R.R., J.H. Hartman, and D.W. Krause. 2000. Stratigraphic analysis of Upper Cretaceous Rocks in the Mahajanga Basin, northwestern Madagascar: Implications for ancient and modern faunas: *Journal of Geology* 108: 275-301.
- Fricke, H.C., and **R.R. Rogers**. 2000. A multiple taxon/multiple locality approach to providing oxygen isotope evidence for endothermic homeothermy in theropod dinosaurs: *Geology* 28: 799-802.
- Blob, R., M. Carrano, **R.R. Rogers**, C. Forster, and L. Espinoza, 2001. A new fossil frog from the Upper Cretaceous Judith River Formation of Montana: *Journal of Vertebrate Paleontology* 21: 190-194.
- Fricke, H.C., and **R.R. Rogers**. 2001. A multiple taxon/multiple locality approach to providing oxygen isotope evidence for endothermic homeothermy in theropod dinosaurs: Comment and Reply: *Geology* 29: 566-567.
- Rogers, R.R., J.H. Hartman, and D.W. Krause. 2001. Stratigraphic analysis of Upper Cretaceous Rocks in the Mahajanga Basin, northwestern Madagascar: Implications for ancient and modern faunas: REPLY: *Journal of Geology* 109(5): 674-676.
- Rogers, R.R., A.B. Arcucci, F. Abdala, P.C. Sereno, C.A. Forster, and C.L. May. 2001. Paleoenvironment and taphonomy of the Chañares Formation tetrapod assemblage (Middle Triassic), Northwestern Argentina: Spectacular preservation in volcanogenic concretions: *Palaios* 16(5): 461-481.
- Rogers, R.R., D.W. Krause, and K. Curry Rogers, 2003. Cannibalism in the Madagascan dinosaur *Majungatholus atopus*. *NATURE* 422: 515-518.
- Rogers, R.R., K.A. Curry Rogers, D. Munyikwa, D., **R.C. Terry**, B.S. Singer. 2004. Sedimentology and taphonomy of the Karoo-equivalent Mpandi Formation in the Tuli Basin of Zimbabwe, with a new  $^{40}\text{Ar}/^{39}\text{Ar}$  age for the Tuli basalts. *Journal of African Earth Sciences* 40: 147-161.
- Behrensmeyer, A.K., F.T. Fürsich, R.A. Gastaldo, S.M. Kidwell, M.A. Kosnik, M.Kowalewski, R.E. Plotnick, **R.R. Rogers**, J. Alroy. 2005. Are the most durable shelly taxa also the most common in the marine fossil record? *Paleobiology* 31: 607-623.
- Rogers, R.R. 2005. Fine-grained debris flows and extraordinary vertebrate burials in the Late Cretaceous of Madagascar. *Geology* 33: 297-300.
- Krause, D.W., P.M. O'Connor, K. Curry Rogers, S.D. Sampson, G.A. Buckley, **R.R. Rogers**. 2006. Late Cretaceous terrestrial vertebrates from Madagascar: Implications for Latin American biogeography. *Annals of the Missouri Botanical Garden* 93: 178-208.
- López-Arbarello, A., **R. Rogers**, and P. Puerta. 2006. Freshwater actinopterygians of the Los Rastros Formation (Triassic), Bermejo Basin, Argentina. *Fossil Record* 9: 238-258.
- Roberts, E.M., R.R. Rogers**, and **B.Z. Foreman**. 2007. Continental insect borings in dinosaur bone: examples from the Late Cretaceous of Madagascar and Utah. *Journal of Paleontology* 81: 201-208.
- Rogers, R.R., D.W. Krause, K. Curry Rogers, A.H. Rasoamiaramanana, L. Rarahantarisoa. 2007. Paleoenvironment and paleoecology of *Majungasaurus crenatissimus* (Theropoda: Abelisauridae) from the Late Cretaceous of Madagascar. *Journal of Vertebrate Paleontology* 27, supplement to no. 2, Memoir 8: 21-31.

- Salgado, L., R.A. Coria, C.M. Magalhaes Ribeiro, A. Garrido, **R. Rogers**, M.E. Simón, A.B. Arcucci, K. Curry Rogers, A.P. Carabajal, S. Apesteguía, M. Fernández, R.A. García, and M. Talevi. 2007. Upper Cretaceous dinosaur nesting sites of Río Negro (Salitral Ojo de Agua and Salinas de Trapalcó-Salitral de Santa Rosa), northern Patagonia, Argentina. *Cretaceous Research* 28: 392-404.
- Foreman, B.Z., R.R. Rogers**, A.L. Deino, K.R. Wirth, and J.T. Thole. 2008. Geochemical characterization of bentonite beds in the Two Medicine Formation (Campanian, Montana), including a new  $^{40}\text{Ar}/^{39}\text{Ar}$  age. *Cretaceous Research* 29: 373-385.
- Fricke, H.C., **R.R. Rogers**, R. Backlund, **C.N. Dwyer**, S. Echt. 2008. Preservation of primary stable isotope signals in dinosaur remains, and environmental gradients of the Late Cretaceous of Montana and Alberta. *Palaeogeography, Palaeoclimatology, Palaeoecology* 266: 13-27.
- Trueman, C.N., M.R. Palmer, J. Field, K. Privat, N. Ludgate, V. Chavagnac, D.A. Eberth, R. Cifelli, **R.R. Rogers**. 2008. Comparing rates of recrystallisation and the potential for preservation of biomolecules from the distribution of trace elements in bones. *Palevol* 7: 145-158.
- Fricke, H.C., **R.R. Rogers**, and T.A. Gates. 2009. Hadrosaurid migration: inferences based on stable isotope comparisons among Late Cretaceous dinosaur localities. *Paleobiology* 35: 270-288.
- Koenig, A.E., **R.R. Rogers**, and C.N. Trueman. 2009. Visualizing fossilization using laser ablation – inductively coupled plasma – mass spectrometry maps of trace elements in Late Cretaceous bones. *Geology* 37: 511-514.
- Samonds, K.E., I.S. Zalmout, M.T. Irwin, D.W. Krause, **R.R. Rogers**, and L.L. Raharivony. 2009. *Eotheroides lambondrano*, new middle Eocene seacow (Mammalia, Sirenia) from the Mahajanga Basin, northwestern Madagascar. *Journal of Vertebrate Paleontology* 29: 1233-1243.
- Rogers, R.R., and **M.E. Brady**. 2010. Origins of microfossil bonebeds: insights from the Upper Cretaceous Judith River Formation of north-central Montana. *Paleobiology* 36: 80-112.
- Rogers, R.R., H.C. Fricke, V. Addona, **R.R. Canavan**, **C.N. Dwyer**, **C.L. Harwood**, A.E. Koenig, **R. Murray**, J.T. Thole, and **J. Williams**. 2010. Using laser ablation–inductively coupled plasma–mass spectrometry (LA-ICP-MS) to explore geochemical taphonomy of vertebrate fossils in the Upper Cretaceous Two Medicine and Judith River Formations of Montana. *Palaios* 25: 183-195.
- Krause, D.W., J.J.W. Sertich, **R.R. Rogers**, **S.C. Kast**, A.H. Rasoamiaramana, and G.A. Buckley. 2010. Overview of the discovery, distribution, and geological context of *Simosuchus clarkii* (Crocodyliformes: Notosuchia) from the Late Cretaceous of Madagascar. *Journal of Vertebrate Paleontology* 30(6): 4-12.
- Kosnik, M.A., A.K. Behrensmeyer, F.T. Fürsich, R.A. Gastaldo, S.M. Kidwell, M. Kowalewski, R.E. Plotnick, **R.R. Rogers**, P.J. Wagner and J. Alroy. 2011. Changes in the shell durability of common marine taxa through the Phanerozoic: evidence for biological rather than taphonomic drivers. *Paleobiology* 37: 303-331.
- Foreman, B.Z.**, H.C. Fricke, K.C. Lohmann, and **R.R. Rogers**. 2011. Reconstructing paleocatchments by integrating stable isotope records, sedimentology, and taphonomy: A Late Cretaceous case study (Montana, United States). *Palaios* 26: 545-554.
- Curry Rogers, K., M. D’Emic, **R. Rogers**, M. Vickaryous, and **A. Cagan**. 2011. Sauropod dinosaur osteoderms from the Late Cretaceous of Madagascar. *Nature Communications* 2: 564 doi: 10.1038/ncomms1578.

- Marshall, M.S.**, and **R.R. Rogers**. 2012. Lungfish burrows from the Upper Cretaceous Maevarano Formation, Mahajanga Basin, northwestern Madagascar. *Palaios* 12: 857-866.
- Rogers, R. R., D.W. Krause, **S.C. Kast**, **M.S. Marshall**, L. Rahantarisoa, C.R. Robins, J.J.W. Sertich. 2013. A new, richly fossiliferous member comprised of tidal deposits in the Upper Cretaceous Maevarano Formation, northwestern Madagascar. *Cretaceous Research* 44: 12-29.
- Colombi, C.E., **R.R. Rogers**, and O. Alcober. 2013. Vertebrate taphonomy of the Ischigualasto Formation. *Journal of Vertebrate Paleontology* Memoir 12, Volume 32, Supplement to Number 6: 31-50.
- Krause, D. W., S. Hoffmann, J. R. Wible, E. C. Kirk, J. A. Schultz, W. v. Koenigswald, J. R. Groenke, J. B. Rossie, P. M. O'Connor, E. R. Seiffert, E. R. Dumont, W. L. Holloway, **R.R. Rogers**, L. J. Rahantarisoa, A. D. Kemp, and H. Andriamialison. 2014. First cranial remains of gondwanatherian mammal reveal remarkable mosaicism. *Nature* 515: 512–517 [doi.10.1038/nature13922].
- Krause, D.W., **R.R. Rogers**, L.J. Rahantarisoa, J.G. Groenke, and H. Anriamiason 2014. Introduction, systematic paleontology, and geological context of *Vinana sertichi* (Mammalia: Gondwanatheria) from the Late Cretaceous of Madagascar. *Journal of Vertebrate Paleontology* 34, supplement to no. 6, Memoir 6: 4-13.
- Vietti, L.**, J. Bailey, D. Fox, and R. Rogers. 2015. Rapid formation of framboidal sulfides on bone surfaces from a simulated marine carcass fall. *Palaios* 30: 327-334.
- Rogers, R.R., S.M. Kidwell, A. Deino, J.P. Mitchell, and **K. Nelson**. 2016. Age, Correlation, and Lithostratigraphic Revision of the Upper Cretaceous (Campanian) Judith River Formation in its Type Area (north-central Montana), with a Comparison of Low- and High-Accommodation Alluvial Records. *Journal of Geology* 124:99-135.
- Rogers, R.R., K.A. Curry Rogers, M.T. Carrano, **M. Perez**, and **A. Regan**. IN PRESS. Isotaphonomy in Concept and Practice: An Exploration of Vertebrate Microfossil Bonebeds in the Upper Cretaceous (Campanian) Judith River Formation, North-Central Montana. *Paleobiology*.

***(In Preparation/In Review)***

- Obrist-Farner, J., P. Ball, T. McGilvery, and **R. Rogers**. IN REVIEW. A prograding margin during global sea level maxima - an example from Mahajanga Basin, northwest Madagascar. *Journal of African Earth Sciences*.
- Rogers, R., and B. Bagley. IN PREP. An Insider's View of the Vertebrate Fossil Record: XRCT Analysis of Vertebrate Microfossil Bonebeds. *GEOLOGY*.
- Smith, J. A.**, and **R. R. Rogers**. IN PREP. Evidence of crayfish predation in Late Cretaceous wetlands, Judith River Formation (Campanian), Montana. *PALAIOS*.

***(Bonebeds Book Project: University of Chicago Press)***

- Rogers, R.R., D.A. Eberth, and A.R. Fiorillo (editors). 2007. *Bonebeds: Genesis, Analysis, and Paleobiological Significance*. University of Chicago Press. Chicago. *My contributions include:*
- Preface
  - Rogers, R.R., and S.M. Kidwell. Chapter 1: A conceptual framework for the genesis and analysis of vertebrate skeletal concentrations. (pages 1-63)
  - Eberth, D.A., **R.R. Rogers**, A.R. Fiorillo. Chapter 5: A practical approach to the study of bonebeds. (pages 265-332)

**(Book Chapters / Invited Contributions / Field Guides /  
Encyclopedia Contributions / Popular Articles - 11)**

- Rogers, R.R. 1993. Systematic patterns of time-averaging in the terrestrial vertebrate record: A Cretaceous case study, *in* S. M. Kidwell and A. K. Behrensmeyer (eds.), *Taphonomic Approaches to Time Resolution in Fossil Assemblages*, Short Courses in Paleontology Number 6:228-249.
- Rogers, R.R. 1993. Marine facies of the Judith River Formation (Campanian) in the type area, north-central Montana. *Montana Geological Society, 1993 Fieldguide*:61-69.
- Rogers, R.R. 1994. Collecting taphonomic data from vertebrate localities, *in* P. Leiggi and P. May (eds.), *Vertebrate Paleontological Techniques*, Cambridge University Press: 47-58.
- Rogers, R.R. 1997. Two Medicine Formation, *in* P. Currie and K. Padian (eds.), *The Dinosaur Encyclopedia*, Academic Press:760-765.
- Rogers, R.R. 1997. Ischigualasto Formation, *in* P. Currie and K. Padian (eds.), *The Dinosaur Encyclopedia*, Academic Press:372-374.
- Rogers, R.R. 2001. The Cambrian Explosion. *Biology*, Macmillan Science Library (R. Robinson, ed.), Macmillan Reference USA.
- Rogers, R.R. 2001. Paleontology. *Biology*, Macmillan Science Library (R. Robinson, ed.), Macmillan Reference USA.
- Rogers, R.R. 2003. *How Old is Old: The Evolution of Life on Earth*. Random House Children's Books, USA
- Gottfried, M.D., K. Curry Rogers, and **R. Rogers**. 2004. First record of Late Cretaceous coelacanths from Madagascar. *In: Recent advances in the origin and early radiation of vertebrates* (G. Arratia, ed.) (Festschrift volume for H.-P. Schultze). F. Pfeil, Berlin:687-691.
- Rogers, R.R. 2006. Meat eating dinosaurs: Teeth marks tell of cannibalism. *Dig* (an archaeology magazine for children) 8:22-23.
- Rogers, R.R., and D.W. Krause. 2007. Tracking an Ancient Killer. *SCIENTIFIC AMERICAN* (feature article in February 2007 issue):42-51.

**(Book Reviews - 4)**

- Rogers, R.R. 1991. review of J. Weigelt, 1989, *Recent Vertebrate Carcasses and their Paleobiological Implications* [translated by Judith Schaefer], University of Chicago Press. *Journal of Geology* 99:893.
- Rogers, R.R. 1993. review of D.D. Gillette and M.G. Lockley, 1991, *Dinosaur Tracks and Traces*, Cambridge University Press. *Journal of Geology* 101:128-129.
- Rogers, R.R., 2003. review of D.R. Carter and G.S. Beaupré, 2001, *Skeletal Function and Form: Mechanobiology of Skeletal Function, Aging, and Regeneration*, Cambridge University Press. *Palaios* 18(1):79.
- Rogers, R.R., 2011. Review of S. Sampson, 2009, *Dinosaur Odyssey*, University of California Press. *Journal of Vertebrate Paleontology* 31:726.

**(Abstracts - 93 – All Linked to Conference Presentations/Posters)**

- Sears, J.W., C.P. Weiss, S. Buckley, L. Angeloni, R. Kell, J. Kruger, P. Murphy, P. Reynolds, **R. Rogers**, and L. Strayer. 1987. Strain balance through a 25 km thick thrust system and problems in plunge projection over long distances, west-central Montana thrust belt: Geological Society of America, Abstracts with Programs, 1987 Annual Meeting:837.
- Rogers, R.R. 1988. Taphonomy of a hadrosaur bonebed, Two Medicine Formation, northwestern Montana: *Journal of Vertebrate Paleontology* 8, Supplement to Number 3:24A.

- Rogers, R.R., and S.D. Sampson. 1989. A drought-related mass death of ceratopsian dinosaurs (Reptilia: Ornithischia) from the Two Medicine Formation (Campanian) of Montana: *Journal of Vertebrate Paleontology* 9, Supplement to Number 3:36A.
- Gyllenhaal, E.D., M.E. Patzkowsky, and **R.R. Rogers**. 1991. Gradients in paleo-precipitation in the Mesozoic and Cenozoic of the United States inferred from the distribution of climate-sensitive sediments and paleosols: Geological Society of America, Abstracts with Program, Annual Meeting:A342.
- Rogers, R.R., J.R. Horner, and C.C. Swisher. 1991. First radiometric dates from the Upper Cretaceous Two Medicine Formation, Montana: Geological Association of Canada Annual Meeting, Program with Abstract 16:A107.
- Rogers, R.R., C.A. Forster, C.L. May, A.M. Monetta, and P.C. Sereno. 1992. Paleoenvironment and taphonomy of the dinosaur-bearing Ischigualasto Formation (Upper Triassic, Argentina): Fifth North American Paleontological Convention, Abstracts and Program:249.
- Rogers, R.R. 1993. Systematic patterns of time-averaging in the terrestrial vertebrate record: Two Medicine-Judith River interval, Montana: *Journal of Vertebrate Paleontology* 13, Supplement to Number 3:54A.
- Rogers, R.R. 1993. Sequence stratigraphy of an alluvial to marine transect: Cretaceous Two Medicine-Judith River interval, Montana: Geological Society of America, Abstracts with Programs, 1993 Annual Meeting:A404.
- Arcucci, A.B., F. Abdala, **R. Rogers**, and P. Sereno. 1994. Tafonomia de la Formacion Chañares (Triasico Medio) Provincia de la Rioja, Argentina. VI Congreso Argentino de Paleontologia y Biostratigraphia, Trelew-Chubut: Resumenes Museo Paleontologico Edigio Feruglio:16.
- Rogers, R.R., A.B. Arcucci, C.A. Forster, F. Abdala, and P.C. Sereno. 1994. Stratigraphic context and taphonomy of the Middle Triassic Los Chañares fauna, La Rioja Province, Argentina: *Journal of Vertebrate Paleontology* 14, Supplement to Number 3:43A.
- Rogers, R.R. 1994. Regressive-transgressive turnaround in the marginal marine to nonmarine Judith River Formation (Campanian), Montana: From the obvious to the obscure: Geological Society of America, Abstracts with Programs, 1994 Annual Meeting:A431.
- Rogers, R.R., C.A. Forster, R.W. Blob, and M.T. Carrano. 1995. Late Cretaceous vertebrates by the sea: Diverse nonmarine assemblages in coastal facies of the Campanian Judith River Formation, north-central Montana: Geological Society of America, Rocky Mountain Section, Abstracts with Programs:52.
- Rogers, R.R. 1995. Allostratigraphy of the Judith River Formation (Campanian) in the type area (Missouri Breaks), north-central Montana: Geological Society of America, Rocky Mountain Section. Abstracts with Programs:53.
- Carrano, M.T., R.W. Blob, J.J. Flynn, C.A. Forster, and **R.R. Rogers**. 1995. Additions to the fauna of the Judith River Formation (Campanian) type area, north-central Montana, with possible range extensions of two genera of eutherian mammals: *Journal of Vertebrate Paleontology* 15, Supplement to Number 3:21A.
- Rogers, R.R., and C.C. Swisher, 1996. The Claggett and Bearpaw transgression revisited: New  $^{40}\text{Ar}/^{39}\text{Ar}$  data and a review of possible drivers: Geological Society of America, North-Central Section, Abstracts with Program, 28 (6):62.
- Rogers, R.R. 1996. A nonmarine perspective on the sedimentology of the Claggett and Bearpaw transgressions: Geological Society of America, Rocky Mountain Section. Abstracts with Program, 28(4):36-37.

- Rogers, R.R., and S.M. Kidwell. 1996. Comparative taphonomy of a nonmarine-marine transect: skeletal signatures of discontinuity surfaces in the Campanian Judith River-Bearpaw sequence, Montana: Sixth North American Paleontological Convention, Abstracts of Papers, Special Publication - The Paleontological Society 8:326.
- Rogers, R.R., and D.A. Eberth. 1996. Stratigraphic utility of vertebrate microfossil assemblages in the Campanian of Montana and Alberta: *Journal of Vertebrate Paleontology* 16, Supplement to Number 3:61A.
- Rogers, R.R., and C.L. May. 1996. Cyclic lacustrine sedimentation and volcanism in the Triassic Los Rastros Formation, La Rioja Province, Argentina: Geological Society of America, Annual Meeting, Abstracts and Program 28(7):473.
- Benner, J.S.**, P.L. Garvin, and **R.R. Rogers**, 1997. Sedimentology and taphonomy of Pennsylvanian paleokarst deposits in the Middle Devonian Davenport Member, Wapsipinicon Fm., Scott Co., Iowa: Geological Society of America, North-Central Section, Abstracts with Programs, 29 (4):4-5.
- Rogers, R.R., S.D. Sampson, and **E.M. Roberts**, 1997. Taphonomy of semi-arid depositional settings: A case study from the subtropical Late Cretaceous of Madagascar: *Journal of Vertebrate Paleontology* 17, Supplement to Number 3:71A.
- Roberts, E.M.**, and **R.R. Rogers**, 1997. Insect modification of dinosaur bones from the Upper Cretaceous of Madagascar: *Journal of Vertebrate Paleontology* 17, Supplement to Number 3:71A.
- Carrano, M.T., J.J. Flynn, **R.R. Rogers**, and C.A. Forster, 1997. The mammalian fauna of the Judith River Formation type area (Campanian, central Montana) revisited: *Journal of Vertebrate Paleontology* 17, Supplement to Number 3:36A.
- Blob, R.W., M.T. Carrano, **R.R. Rogers**, C.A. Forster, and N.R. Espinoza, 1997. New taxonomic and taphonomic data from the herpetofauna of the Judith River Formation (Campanian), Montana: *Journal of Vertebrate Paleontology* 17, Supplement to Number 3:32A.
- Fricke, H.C., and **R.R. Rogers**, 1997. Atmospheric water content in the Late Cretaceous relative to the present as determined by the oxygen isotope composition of phosphate from freshwater fish scales: Geological Society of America, Annual Meeting, Abstracts and Program, v. 29 (6):A-395.
- Rogers, R.R., and J.H. Hartman, 1998. Revised age of the dinosaur-bearing Maevarano Formation (Upper Cretaceous), Mahajanga Basin, Madagascar: *Journal of African Earth Sciences* 27:160-162.
- Munyikwa, D., S.D. Sampson, **R.R. Rogers**, C.A. Forster, K.A. Curry, and B.D. Curtice, 1998. Vertebrate paleontology and geology of the Gokwe Formation, Zimbabwe: *Journal of African Earth Sciences* 27:142-143.
- Rogers, R.R., and S.M. Kidwell, 1998. Testing the association between skeletal lags and discontinuity surfaces: a case study from the Upper Cretaceous of Montana: *Journal of Vertebrate Paleontology* 18, Supplement to Number 3:72A.
- Fricke, H.C., and **R.R. Rogers**, 1998. Oxygen isotope ratios of dinosaur tooth enamel and fish body scales: insights into climate during the Late Cretaceous: *Journal of Vertebrate Paleontology* 18, Supplement to Number 3:43A.
- Fricke, H.C., and **R.R. Rogers**, 1998. Oxygen isotope microanalysis of dinosaur tooth enamel using UV-laser techniques and investigating terrestrial paleoclimate during the Mesozoic: Geological Society of America, Annual Meeting, Abstracts and Program, v. 30 (6):A-273.
- Sandler, L.J.**, K. Chin, and **R.R. Rogers**, 1998. White River herbivore coprolites re-evaluated: Taphonomic and paleoecological implications: Geological Society of America, Annual Meeting, Abstracts and Program, v. 30 (6):A-31.

- Rogers, R.R., and S.M. Kidwell, 1999. Geological Origins of Bonebeds: Journal of Vertebrate Paleontology 19, Supplement to Number 3:71A.
- Fiorillo, A.R., and **R.R. Rogers**, 1999. Bonebeds: A nomenclatural and historical overview: Journal of Vertebrate Paleontology 19, Supplement to Number 3:44A.
- Eberth, D.A., **R.R. Rogers**, and D.B. Brinkman, 1999. The collecting and significance of data from mono-, pauci-, multi-taxic, and microfossil bonebeds: Journal of Vertebrate Paleontology 19, Supplement to Number 3:43A.
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- Fricke, H.C., and **R.R. Rogers**. 1999. A multiple taxon/multiple locality approach to providing oxygen isotope evidence for endothermic homeothermy in theropod dinosaurs: Geological Society of America, Annual Meeting, Abstracts and Program, V. 31.
- Miller, J.H., R.R. Rogers**, K.R. Wirth, and R.K. Dunn. 2000. Preliminary analyses of paleosols in the Upper Cretaceous Maevarano Formation (Mahajanga Basin), northwestern Madagascar: Paleoclimatic implications: Geological Society of America, Annual Meeting, Abstracts and Program, v. 32:A305.
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- Rogers, R.R., 2001. The stratigraphy of vertebrate skeletal concentrations: Insights gained from the Upper Cretaceous of Montana: Geological Society of America, Annual Meeting, Abstracts and Program, v. 33:A30.
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- Arcucci, A., A. Lopez-Albarellos, and **R. Rogers**, 2002. Freshwater fishes of the Los Rastros Formation (Middle Triassic) Ischigualasto Basin, Argentina. Journal of Vertebrate Paleontology 22, Supplement to Number 3:33A.
- Rogers, R.R., and J. Miller, 2002. Paleoenvironmental and taphonomic perspectives on the Late Cretaceous world of the abelisaurid theropod *Majungatholus atopus*. Journal of Vertebrate Paleontology 22, Supplement to Number 3:100A.
- Hajek, E.A., R.R. Rogers**, D.R. Setterholm, and S. Gooler, 2002. Large lakes and tidally-influenced rivers in the Late Cretaceous of southwestern Minnesota. Geological Society of America, Abstracts with Program, v. 34, no. 6:279.
- Casey, M., R.R. Rogers**, M.J. Jackson, and G.A. Buckley, 2003. Magnetic stratigraphy of the Upper Cretaceous Maevarano Formation (Campanian(?) – Maastrichtian), Northwestern Madagascar. Journal of Vertebrate Paleontology 23 (suppl. to 3):39A.

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- Steele, E., H. Fricke, and **R. Rogers**, 2003. Carbon isotope evidence for ecological niche partitioning among herbivorous dinosaurs of the Judith River Formation, Montana. *Journal of Vertebrate Paleontology* 23 (suppl. to no. 3):100A.
- Casey, M.M.**, **R.R. Rogers**, M.J. Jackson, and G.A. Buckley. 2004. Continuing research on the magnetic stratigraphy of the Upper Cretaceous (Campanian(?)-Maastrichtian) Maevarano Formation of northwestern Madagascar. *Geological Society of America, Abstracts with Programs*, vol. 36, no.2:113.
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- Brady, M.**, **R. Rogers**, and B. Sheets. 2004. An experimental approach to bone concentration. *Journal of Vertebrate Paleontology* 24 (suppl. to no. 3):41A.
- Foreman, B.**, **R. Rogers**, and K. Wirth. 2004. Geochemical correlation and characterization of Two Medicine Formation bentonites, northwestern Montana. *Journal of Vertebrate Paleontology* 24 (suppl. to No. 3):59A.
- Rogers, R. R. 2005. Fine-grained debris flows and extraordinary vertebrate burials in the Late Cretaceous of Madagascar. *Abstr. with Prog., Geological Society of America* 37:24.
- Rogers, R., H. Fricke, A. Koenig, **C. Dwyer**, **C. Harwood**, and **J. Williams**. 2005. A comparative study of diagenesis in fossil bones and teeth: A case-study from the Upper Cretaceous Two Medicine and Judith River Formations of Montana. *Abstracts of Papers, Journal of Vertebrate Paleontology* 25, suppl. no. 3:106A.
- Brady, M.**, **R. Rogers**, and B. Sheets, 2005. An experimental and field-based approach to microvertebrate bonebed taphonomy in the Judith River Formation of north-central Montana. *Abstracts with Programs, Geological Society of America* 37, no. 5:24.
- Williams, J.**, **C. Harwood**, **R. Rogers**, K. Wirth, and J. Thole. 2005. Authigenic cements in fossil bones from the Upper Cretaceous Two Medicine and Judith River Formations, Montana. *Abstracts with Programs, Geological Society of America* 37, no.5:33.
- Dwyer, C.**, **R. Rogers**, H. Fricke, K. Wirth, and J. Thole. 2005. A comparative study of REE signatures and authigenic cements in dinosaur teeth and gar scales from the Upper Cretaceous Two Medicine and Judith River Formations of Montana. *Abstracts with Programs, Geological Society of America* 37, no. 5:81.
- Harwood, C.**, **R. Rogers**, H. Fricke, and J. Thole. 2005. A comparative study of authigenic mineralization and rare earth element geochemistry of vertebrate microfossil assemblages in the Campanian Judith River Formation of Montana. *Abstracts with Programs, Geological Society of America* 37, no. 7: 01
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- Jankowski, K.**, **C. Harwood**, **D. Patel**, **A. Ashley**, **D. Bell**, J. Thole, and **R. Rogers**, 2006. Sedimentology and taphonomy of the Dakota Rose bonebed of the Cretaceous Carlile Shale near Milbank, South Dakota. *Geological Society of America Abstracts with Programs* 38( 4):68.

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- Foreman, B.**, K. Lohmann, H. Fricke, and **R. Rogers**. 2007. Paleohydrologic conditions across a Late Cretaceous foreland basin inferred from oxygen isotope records, Montana, U.S.A. Geological Society of America Abstracts with Program 39(6):303.
- Canavan, R.**, **R. Rogers**, A. Koenig, **M. Brady**, **C. Harwood**. 2008. A geochemical approach to deciphering the origins of microfossil bonebeds in the Upper Cretaceous Judith River Formation, Montana. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3:60A.
- Foreman, B.**, H. Fricke, and **R. Rogers**. 2008. A multi-proxy, multi-depositional environment approach to reconstructing paleohydrologic conditions using stable isotopes across the Late Cretaceous (Campanian) foreland basin of Montana. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3:79A.
- Kast, S.**, **R. Rogers**, K. Curry Rogers. 2008. Reconstructing Late Cretaceous climate in the Mahajanga Basin of northwestern Madagascar. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3:99A.
- Koenig, A., **R. Rogers**, and C. Trueman. 2008. Visualizing fossilization histories in bones using high resolution elemental mapping. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3:101A.
- Nelson, K.D.**, and **R.R. Rogers**. 2009. Trends in clay mineralogy across a terrestrial sequence boundary in the Campanian Judith River Formation of Montana. Geological Society of America Abstracts with Program 41(7):126.
- Marshall, M.S.**, and **R.R. Rogers**. 2010. Lungfish burrows in the Upper Cretaceous Maevarano Formation, Mahajanga Basin, Northwestern Madagascar. Geological Society of America Abstracts with Program 42(5):253.
- Ratigan, D.**, **A. Lund**, and **R. Rogers**. 2010. Comparative taphonomy of two vertebrate microfossil bonebeds in the Campanian Judith River Formation, northwestern Montana. Geological Society of America Abstracts with Program 42(5):252.
- Rogers, R. and D. Krause. 2010. New insights into the geological context of the Late Cretaceous vertebrate assemblage from the Maevarano Formation, Mahajanga Basin, Madagascar. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 30, suppl. No. 3:153A.
- Marshall, M.S.**, and **R.R. Rogers**. 2011. Exceptional lungfish burrows in the Upper Cretaceous Maevarano Formation, Mahajanga Basin, Northwestern Madagascar. Geological Society of America Abstracts with Program 43(5):310.
- Rogers, R.R., P.M. O'Connor, J.R. Groenke, and S.H. Burch. 2011. Exploring burial dynamics in Cretaceous bonebeds in the Maevarano Formation (Maastrichtian, Madagascar) using field-based data and high-resolution x-ray computed tomography. IV Congreso Latino Americano Paleontologia de Vertebrados, Abstracts with Program.
- Smith, J.A.**, and **R.R. Rogers**. 2012. Surface alteration of fish and mammal bone in the burial environment: A comparative study. Geological Society of America Abstracts with Program 44(7):275.

- Rogers, R.R., M.T. Carrano, K. Curry Rogers, **B. Faulkner**, **A. Lawrence**, **M.S. Marshall**, and **M. Perez**. 2012. Taphonomy of vertebrate microfossil bonebeds in the Upper Cretaceous (Campanian) Judith River Formation of central Montana. Geological Society of America Abstracts with Program 44(7):397.
- Lawrence, A.S.**, F. Jackson, and **R.R. Rogers**. 2014. A diverse assemblage of fossil eggshell from the Upper Cretaceous Judith River Formation of north-central Montana. Geological Society of America Abstracts with Program, Vol. 46, No. 5:99.
- Faulkner, B.**, D. Brinkman, and **R.R. Rogers**. 2014. Terrestrial turtles from the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana. Geological Society of America Abstracts with Program. Vol. 46, No. 5:90.
- Brinkman, D., and **R.R. Rogers**. 2014. Teleosts from the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana – Evidence from vertebrate microfossil localities. Geological Society of America Abstracts with Program. Vol. 46, No. 5:98.
- Perez, M.**, and **R.R. Rogers**. 2014. Comparative taphonomy of surface collected and bulk sampled fossil collections from the Upper Cretaceous Judith River Formation, north-central Montana. Geological Society of America Abstracts with Program. Vol. 46, No.5:89.
- Rogers, R.R., S.M. Kidwell, and J.P. Mitchell. 2014. Stratigraphic analysis of the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana: Lithostratigraphic updates and refined regional correlations. Geological Society of America Abstracts with Program. Vol. 46, No. 5:98.
- Sullivan, P.**, and R. Rogers. 2014. Evidence of feeding ecology in vertebrate microfossil bonebeds: A case study from the Upper Cretaceous Judith River Formation of north-central Montana. Geological Society of America Abstracts with Programs. Vol. 46, No. 6:135.
- Howes, B.**, and **R. Rogers**. 2014. Revisiting a regionally significant terrestrial bounding surface in the Upper Cretaceous (Campanian) Two Medicine Formation, northwestern Montana. Geological Society of America Abstracts with Programs. Vol. 46, No. 6: 775.
- Rogers R. R., 2014. Patterns of preservation in ancient coastal wetlands: Taphonomy of vertebrate microfossil bonebeds in the Upper Cretaceous (Campanian) Judith River Formation, Montana, U.S.A. 4<sup>th</sup> International Palaeontological Congress, Mendoza, Argentina, Abstract Volume: 160.
- Colombi, C. and **R. Rogers**. 2014. Fossil-diagenesis as an indicator of paleoenvironmental conditions: Indications of aridity at the Triassic-Jurassic boundary. 4<sup>th</sup> International Palaeontological Congress, Mendoza, Argentina, Abstract Volume: 166.
- Rogers, R.R., K.A. Curry Rogers, M.T. Carrano. 2015. Patterns of preservation in ancient coastal wetlands: taphonomy of vertebrate microfossil bonebeds in the Upper Cretaceous (Campanian) Judith River Formation, Montana. Journal of Vertebrate Paleontology, Abstracts Volume, p. 204.
- Carrano, M.T., **R.R. Rogers**, M.P.J. Oreska, and K.A. Curry Rogers. 2015. Vertebrate microfossil bonebeds as benchmarks for terrestrial vertebrate diversity and paleoecology through time. Geological Society of America Annual Meeting, Paper no. 98-2.
- Rogers, R.R. 2016. Twenty years of paleontological adventure and discovery on the Great Red Island, Madagascar. Proceedings of the 19<sup>th</sup> Biennial Conference of the Palaeontological Society of Southern Africa, Stellenbosch, p. 6 (keynote address of conference).

- Rogers, R.R. K. A. Curry Rogers, M.T. Carrano. 2016. Isotaphonomy in concept and practice: an exploration of vertebrate microfossil bonebeds in the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana. Proceedings of the 19<sup>th</sup> Biennial Conference of the Palaeontological Society of Southern Africa, Stellenbosch, p. 55.
- Bagley, B., and **R. Rogers**. 2016. An insider's view of the vertebrate fossil record: X-Ray computed tomography of vertebrate bonebeds from the Upper Cretaceous Judith River Formation, Montana. Geological Society of America Annual Meeting, Paper no. 162-32.
- Rogers, R.R., Ramezani, J., **Roberts, E.M.**, Eberth, D.A., Spanjers, M.C., Bowring, S.A. 2016. Testing correlations and refining frameworks for paleobiological reconstructions in the Upper Cretaceous Two Medicine and Judith River formations, Montana, using new CA-TIMS U-Pb geochronology. Geological Society of America Annual Meeting, Paper no. 193-9.
- Roberts, E.M.**, J. Ramezani, D.A. Eberth, **R.R. Rogers**, and T. Beveridge. 2016. High-precision U-Pb TIMS geochronology for correlation of upper Campanian continental faunas across the Western Interior Basin: An update on the Kaiparowits Formation, southern Utah. Geological Society of America Annual Meeting, Paper no. 193-12.

#### **IV. INVITED LECTURES**

1991. Invited Speaker, Cretaceous Nonmarine Paleogeography and Paleobiology of Laurasia, Geological Association of Canada, Toronto
1993. Invited Speaker/Author. "Taphonomic Approaches to Time Resolution in Fossil Assemblages", a short course of the Paleontological Society given at the 1993 Geological Society of America Meeting, Boston
1994. Invited Speaker, Evolutionary Morphology Lecture Series, University of Chicago
1994. Invited Speaker, Montana Geological Society, Billings, Montana (of the Montana Group)
1995. Invited Speaker, Geological Society of America, Symposium of the Rocky Mountain Section, Late Cretaceous-Early Paleogene Paleofaunas and Paleoenvironments of the Northern Rocky Mountains
1996. Invited Speaker, University of Nebraska, Geology Lecture Series
1996. Invited Speaker, Geological Society of America, Symposium of the Rocky Mountain Section, Perspectives on the Cretaceous Western Interior Basin
1996. Invited Speaker, Geological Society of America, Symposium of the North-Central Section, Mesozoic Paleoenvironments of North America
1996. Invited Discussant, Field Museum of Natural History, Spring Systematics Symposium, "The Andes"
1996. Invited Speaker, University of Iowa, Geology Lecture Series
1997. Invited Speaker, State University of New York, Stony Brook, Department of Anatomy Lecture Series
1998. Invited Keynote Speaker, Annual Pew Research Symposium, Washington University
2000. Invited Speaker, Minnesota Geological Society
2001. Invited Speaker, Minnesota Geological Society
2001. Invited Speaker, Geological Society of America, Topical Session at the National Meeting (Boston), Stratigraphic Paleobiology
2002. Invited Speaker, Linda Hall Library of Science, Linda Hall Lecture Series
2004. Invited Speaker, University of Minnesota – Duluth, Geology Department Seminar Series
2004. Invited Speaker, University of Wyoming, Geology Department Seminar Series

- 2004. Invited Speaker, Norwich University, Geology Department Seminar Series
- 2005. Invited Speaker, University of Utah, Geology Department Seminar Series
- 2005. Invited Speaker, McGill University, Geology Department Seminar Series
- 2005. Invited Speaker, Minnesota Geological Survey, Visiting Lecturer Series
- 2005. Invited Speaker, University of Minnesota, Department of Geology and Geophysics Seminar Series
- 2006. Invited Speaker, California State University, Fresno, Department of Geology Seminar Series
- 2006. Invited Speaker, Royal Tyrrell Museum, Alberta, Heaton Lecture Series
- 2007. Invited Speaker, Michigan State University, Department of Geological Sciences
- 2008. Invited Speaker, Eastern Tennessee State University, Department of Biology
- 2008. Invited Speaker, Minnesota Geological Society
- 2009. Invited Speaker, University of Michigan, Department of Geological Sciences
- 2010. Invited Speaker, Virginia Tech, Department of Geosciences
- 2011. Invited Speaker/Convener, Symposium of Vertebrate Taphonomy, IV Latin American Congress of Vertebrate Paleontology, San Juan, Argentina
- 2013. Invited Participant, Cretaceous-Paleocene Food Web Workshop, University of California Museum of Paleontology, Berkeley
- 2014. Invited Speaker, Symposium of Vertebrate Taphonomy, 4<sup>th</sup> International Palaeontological Congress, Mendoza, Argentina
- 2015. Invited Speaker, University of Colorado (Boulder), Department of Geological Sciences
- 2015. Invited Speaker, University of Mauritius (Réduit, Mauritius)
- 2016. Invited Speaker, University of Washington, PaleoLunch Series
- 2016. Invited Keynote Speaker, Palaeontological Society of Southern Africa, 19<sup>th</sup> Biennial Meeting, Stellenbosch University, South Africa
- 2016. Invited Speaker, Geological Society of America, High-Precision Geochronological Constraints on the Geologic History of Dinosaur Evolution, Annual Meeting, Denver
- 2017. Invited Speaker, University of Georgia, Geology Department Weekly Colloquium

## **V. AWARDS**

- 1991. Outstanding Mention, Geological Society of America student award for grant proposal
- 1993. Romer Prize, best student paper, national meeting of the Society of Vertebrate Paleontology, Albuquerque
- 2012. Jack and Marty Rossmann Excellence in Teaching Award, Macalester College

## **VI. GRANTS**

### ***(External Grants – Prior to Macalester)***

- 1987. Research Grant, Society of Sigma-Xi, in support of master's thesis research
- 1991. Research Grant, Society of Sigma-Xi, in support of Ph.D. research
- 1991. Research Grant, Geological Society of America, in support of Ph.D. research
- 1991. Research Grant, American Museum of Natural History (Theodore Roosevelt Fund), in support of Ph.D. research
- 1994. Research Grant, The Dinosaur Society, in support of microfaunal and taphonomic work in the Judith River Formation (co-PI's R. Rogers, C. Forster and R. Blob)

### ***(External Grants – Since Macalester)***

- 1998. Research Grant, National Geographic Society, "Paleontology and Geology of the Limpopo Valley, Zimbabwe: Exploring Early Dinosaur Evolution in Southern Africa."

- 1997-2001. Research Grant, National Science Foundation - Geology and Paleontology, (EAR-9706302), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co-PI's – D. Krause, C. Forster, S. Sampson, R. Rogers, and G. Buckley; Collaborator: J. Hartman)
1998. Research Experiences for Undergraduates Supplement, National Science Foundation - Geology and Paleontology, "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co-PI's – D. Krause and R. Rogers)
- 2001-2004. Research Grant, National Science Foundation – Geology and Paleontology (EAR-106477), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co-PI's – D. Krause, C. Forster, S. Sampson, R. Rogers, and G. Buckley)
- 2003-2006. Research Grant, National Science Foundation – Geology and Paleontology (EAR-0319041), Collaborative/RUI Research: Stable Isotope Reconstruction of North American Terrestrial Environments During the Late Cretaceous (co-PI Fricke is a geochemist at Colorado College).
- 2005-2010. Research Grant, National Science Foundation – Geology and Paleontology (EAR-0446488), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co-PI's – D. Krause, C. Forster, R. Rogers, P. O'Connor, and G. Buckley)
2005. Equipment Grant, National Science Foundation, EAR 0520870 – This grant funded the purchase of an X-Ray Diffractometer (XRD) for the Science Division (Keck Lab) (PI - K. Wirth, Co-PIs: J. Doyle, T. Varberg, R. Rogers, J. Rife).
2009. Equipment Grant, National Science Foundation – This grant funded acquisition of a variable pressure scanning electron microscope for Science Division (Keck Lab); funded by the NSF Major Research Infrastructure Program, (PI - Karl Wirth, Co-PI's: S. Boyer, J. Doyle, P. Overvoorde, R. Rogers)
- 2009-2013. Research Grant, Bureau of Land Management – This grant funds research in the Upper Missouri River Breaks National Monument (co-PI K. Curry Rogers)
- 2011-2014. Research Grant, National Science Foundation, EAR 1123642 - Cretaceous Vertebrates from Madagascar: A Window into the Biogeographic and Plate Tectonic History of Gondwana. (Co-PI's – D. Krause, R. Rogers, P. O'Connor, A. Turner, J. Sertich)
- 2011-2014. Research Grant, National Science Foundation, EAR 1052673 - RUI: Deciphering the origins of vertebrate microfossil bonebeds: A comparative taphonomic and paleoecological approach in the Late Cretaceous of Montana (co-PIs Kristi Curry Rogers, Matt Carrano, Smithsonian Institution)
2013. Research Grant, Bureau of Land Management – NLCS supplement to existing cost-share grant. This grant funds continuing research in the Upper Missouri River Breaks National Monument (co-PI K. Curry Rogers)
- 2015-2018. Research Grant, National Science Foundation, EAR 1528273: Cretaceous Vertebrates from Madagascar: A Window into the Biogeographic and Plate Tectonic History of Gondwana (co-PIs David Krause, Alan Turner, Joseph Sertich, Kristi Curry Rogers)
- 2015-2016. Research Grant, Bureau of Land Management, Documentation of Paleontology Resources in Central Montana. This grant funds continuing research in the Upper Missouri River Breaks National Monument (co-PI K. Curry Rogers)

### **(Internal Grants – Macalester)**

- 1998-99 – Wallace Research Grant – funded meeting attendance (Mesozoic Terrestrial Ecosystems) and research in Argentina and Boston
- 1999 – Beltmann Student Research Grant – funded thesis research of Joshua Miller
- 1999 – Keck Collaborative Student – Faculty Research Grant – funded thesis research of Rebecca Terry
- 2000 - Beltmann Student Research Grant – funded thesis research of Rebecca Terry
- 2001 – Beltmann Student Research Grant – funded summer project of Jonathan Beland
- 2001 – Keck Collaborative Student – Faculty Research Grant – funded thesis research of Elizabeth Hajek
- 2002 - Beltmann Student Research Grant – funded thesis research of Brady Foreman
- 2002 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Michelle Casey
- 2002-03 – Wallace Research Grant – funded my research in Cretaceous of Montana
- 2003 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Brady Foreman
- 2003 - Beltmann Student Research Grant - funded thesis research of Mara Brady
- 2003 - Beltmann Student Research Grant – funded thesis research of Anna Jerve
- 2004 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Mara Brady
- 2004 - Beltmann Student Research Grant – funded thesis research of Cara Harwood
- 2005 - Beltmann Student Research Grant – funded thesis research of Cara Harwood
- 2005-06 – Wallace Research Grant (with K. Curry Rogers) – funded research in Cretaceous of Montana and senior thesis research of Robin Canavan
- 2006 - Beltmann Student Research Grant – funded senior thesis research of Sophia Kast
- 2007 - Beltmann Student Research Grant – funded senior thesis research of Robin Canavan
- 2007 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Sophia Kast
- 2008 - Beltmann Student Research Grant – funded senior thesis research of Jeffrey Dobbins
- 2008 - Beltmann Student Research Grant – funded senior thesis research of Ken Nelson
- 2009 – Beltmann Student Research Grant – funded senior thesis research of Jeffrey Dobbins
- 2010 – Beltmann Student Research Grant – funded senior thesis research of Deirdre Ratigan
- 2010 – Student-Faculty Summer Research Collaboration Grant – funded senior thesis research of Madeline Marshall
- 2013 - Beltmann Student Research Grant – funded senior thesis research of Tori Lewis
- 2014 – Student Faculty Summer Research Grant – funded senior thesis research of Bolton Howes
- 2014 – Wallace Travel Grant – funded travel to professional meeting, 4<sup>th</sup> International Palaeontological Congress, in Mendoza, Argentina
- 2015 – Beltmann Grant – funded thesis projects of Cedric Hagen, Evan Kartheiser, and Hannah Wilson
- 2016 – Beltmann Grant – funding for thesis project of Ted Toegel

## VII. UNDERGRADUATE SENIOR HONORS THESES ADVISED (primary advisor)

- 1999 - Lillian Sandler – *Taphonomy and paleoecology of an unusually well-preserved sample of herbivore coprolites from the Chadron Formation (Eocene), South Dakota*, 96 p.
- 2000 – Joshua Miller - *Paleosols as indicators of paleoclimate in the Upper Cretaceous Maevarano Formation, Mahajanga Basin, northwestern Madagascar*, 111 p. – PhD (2009), University of Chicago, presently Assistant Professor, University of Cincinnati
- 2000 – Adrian Sutter - *A comparative taphonomic study of vertebrate fossilization in marine and terrestrial strata of the Upper Cretaceous Judith River Formation, North-Central Montana*, 65 p.
- 2001 - Rebecca Terry – *Character and significance of a silicified unconformity in Late Triassic – Early Jurassic strata of the Limpopo Valley, Southern Zimbabwe*, 123 p. – PhD (2007), University of Chicago, presently Assistant Professor, Oregon State University
- 2002 – Elizabeth Hajek - *Comparative sedimentology of two Late Cretaceous localities near New Ulm, Minnesota*, 83 p. - obtained MS and PhD (2009) from University of Wyoming, presently Assistant Professor, Pennsylvania State University
- 2003 - Michelle Casey – *Magnetostratigraphy of the Upper Cretaceous Maevarano and Berivotra formations, Mahajanga Basin, northwestern Madagascar*, 130 p. – obtained MS from Virginia Tech, received PhD (2011) from Yale University, presently post doc, University of Kansas
- 2004 - Brady Foreman – *Geochemical characterization and discrimination of bentonites in the Upper Cretaceous Two Medicine Formation, northwestern Montana*, 58 p. – received PhD, University of Wyoming, post-doc, University of Minnesota, presently Assistant Professor, Western Washington University.
- 2004 - Anna Jerve – *Geochemical analysis and characterization of paleosols from the Masorobe Member of the Upper Cretaceous Maevarano Formation, Mahajanga Basin, northwestern Madagascar*, 53 p. – obtained MS (2006), Michigan State University, PhD, Uppsala University (Sweden)
- 2005 - Brett Dennis-Duke - *Revisiting the magnetostratigraphy of the Upper Cretaceous Berivotra and Maevarano Formations, northwestern Madagascar*, 57 p.
- 2005 - Josephine Williams – *Authigenic cements and rare earth element concentrations in fossil bones from the Upper Cretaceous Two Medicine Formation, Montana*, 60 p.
- 2005 - Christopher Dwyer - *A comparative investigation of diagenesis fossil teeth from the Upper Cretaceous Two Medicine and Judith River Formations of Montana*, 78 p.
- 2005 - Mara Brady – *An experimental and field-based approach to the taphonomy of microvertebrate assemblages: a case study in the Judith River Formation of north-central Montana*, 135 p. – received PhD (2012) from the University of Chicago, presently Assistant Professor, California State University - Fresno
- 2006 - Cara Harwood – *Authigenic mineralization and geochemical taphonomy of vertebrate microfossils from the Upper Cretaceous Judith River Formation of Montana*, 107 p. – completed PhD, University of California, Davis
- 2008 – Walter Persons – *A field and laboratory study of the Ediacaran fossils of Hewitt's Cove: Evidence of tectonic deformation and consideration of paleobiology*, 57 p. – currently PhD candidate, University of Alberta (Edmonton)
- 2008 – Sophia Kast – *Reconstructing Late Cretaceous climate in the Mahajanga Basin of northwestern Madagascar*, 92 p.

- 2008 – Robin Canavan – *Authigenic cements and rare earth element signatures in microfossil bonebeds from the Upper Cretaceous Judith River Formation, north-central Montana*, 74 p. – completed masters degree, University of Wyoming, presently PhD candidate, Yale University
- 2009 – Ken Nelson – *Clay and framework mineralogy of the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana*, 61 p.
- 2009 – Rachel Murray – *Characterizing environments of fossilization in the Two Medicine and Judith River Formations, Upper Cretaceous, Montana*, 46 p. – completed masters, University of Arizona, presently PhD candidate, Southern Cross University (Australia)
- 2010 – Madeline Mette – *Stable carbon isotope stratigraphy and magnetic susceptibility of the Upper Ordovician Daravgai and Gashuunovoo Formations, Gobi-Altai Terrane, Shine Jinst area, Southern Mongolia*, 50 p. – presently PhD candidate, Iowa State University
- 2010 – Jeffrey Dobbins – *A geochemical analysis of the volcanic ash bed deposit at Ashfall Fossil Beds, Nebraska*, 41 p. – currently masters candidate, New Mexico Institute of Mining and Technology
- 2010 – Anne Brown - *Mapping the Mahajanga Basin: using GIS to explore spatial relationships in Madagascar's geology and paleontology*, 219 p. (shared advising with Holly Barcus, Geography) – currently masters candidate (geography), University of California Los Angeles
- 2011 – Deirdre Ratigan – *Using experimental taphonomy to replicate bone alteration in the Judith River Formation (Upper Cretaceous, Montana)*, 83 p. – completed masters degree, University of Wyoming
- 2012 – Madeline Marshall – *Exceptional Record of Lungfish Burrows from the Upper Cretaceous Maevarano Formation, Mahajanga Basin, Northwestern Madagascar*, 70 p. – presently PhD candidate, University of Chicago
- 2012 – Jansen Smith – *Confamilial predation on naticid gastropods through a pulsed extinction in the Plio-Pleistocene of the Carolinas*, 155 p. - presently PhD candidate, Cornell University
- 2015 – Bolton Howes – *Characterization of a regionally significant terrestrial bounding surface in the Upper Cretaceous Two Medicine Formation, Montana*, 28 p. - presently masters student at University of Georgia, about to transition to PhD.
- 2015 – Benjamin Faulkner – *Nonmarine turtles from the Upper Cretaceous (Campanian) Judith River Formation of North-Central Montana: Taxonomy and Paleoecology*, 29 p.
- 2016 – Patrick Sullivan – *Feeding traces in vertebrate microfossil bonebeds from the Upper Cretaceous Judith River Formation, Montana.*
- 2016 – Evan Kartheiser – *Comparative sedimentology in the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana: A transect from the terrestrial to the shallow marine realm.*
- 2016 – Cedric Hagen – *Geological context and paleoenvironment of the *Lotosaurus adentus* (Archosauria:Poposauroidae) bonebed, Middle Triassic Badong Formation, China.* – presently PhD candidate, Oregon State University
- 2017 – *Sierra Swenson* – *Dinosaur coprolites from Montana* – in progress
- 2017 – *Ted Toegel* – *Comparative study of phosphorite nodules* – in progress
- 2017 – *Anik Regan* – *Conservation Paleobiology of Gulf Coast mollusks* – in progress

### **VIII. GRADUATE STUDENTS ADVISED (Ph.D. committee member)**

- A. Wroblewski (Univ. Wyoming)
- E. Roberts (Univ. Utah)
- T. Gates (Univ. Utah)
- F. Therrien (John Hopkins Univ.)
- L. Vietti (Univ. Minnesota)
- D. Lovelace (Univ Wisconsin)
- L. Weaver (Univ. Washington) current
- K. Yezzi-Woodley (Univ. Minnesota) current

### **IX. PROFESSIONAL AFFILIATIONS AND SERVICE**

- Associate Editor, *Palaios*, 2002 – 2015
- Distinguished Lecturer – Paleontological Society (2003 – 2005)
- Judge, Romer Prize Award Committee, Society of Vertebrate Paleontology, 1999 – 2011
- Judge, Paleontological Society Grant-in-Aid Committee, 1998 – 2000
- Member – Geological Society of America (since 1995), Society of Vertebrate Paleontology (since 1987)
- Member – Palaeontological Society of Southern Africa (since 2017)