

Raymond R. Rogers
DeWitt Wallace Professor and Chair
Geology Department
Macalester College

EDUCATION

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

ACADEMIC POSITIONS AND AFFILIATIONS

- 9/1997-present Assistant/Associate/Professor/DeWitt Wallace Professor, Chair (2002-2011, 2016-2020), Geology Department, Macalester College, St. Paul, MN
9/2016-present Research Associate, Department of Earth Sciences, Denver Museum of Nature and Science, Denver, CO
5/2006-present Adjunct Professor and Advising Member of the Graduate College, Department of Geology and Geophysics, University of Minnesota, Minneapolis, MN
1/2001-present Research Associate, Department of Geology, Field Museum of Natural History, Chicago, IL
4/2001-9/2005 Member Taphonomy Working Group, Paleobiology Database, National Center for Ecological Analysis and Synthesis, University of California, Santa Barbara, CA
9/1995-8/1997 Assistant Professor, Department of Geology, Cornell College, Mt. Vernon, IA

PUBLISHED PEER-REVIEWED ARTICLES (and submitted IN REVIEW)

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

- Rogers, R.R., A.K. Behrensmeyer, and E.M. Roberts, **IN PRESS**. On the Taphonomy of the Dinosauria. In *The Dinosauria, 3rd Edition*, eds. D. Weishampel, P. Barrett, M. Carrano, and P. Makovicky. Cambridge University Press.
- Krause, D.W., P.M. O'Connor, J.W. Sertich, K. Curry Rogers, R.R. Rogers, and B. Rakotozafy. **IN REVIEW**. Late Cretaceous Vertebrates of Madagascar: A window into Gondwanan biogeography. in *The New Natural History of Madagascar*, ed. S. Goodman. Princeton University Press.
- Taylor, P.D., and R.R. Rogers. 2021. A new species of cheilostome bryozoan from the Upper Cretaceous (Campanian) Judith River Formation, Montana. *Journal of Paleontology*. doi: 10.1017/jpa.2021.34
- Krause, D.W., J.R. Groenke, S. Hoffman, R.R. Rogers, and L.J. Rahantarisoa. 2020. Introduction to *Adaltherium hui* (Gonodwanatheria, Mammalia) from the Late Cretaceous of Madagascar. *Journal of Vertebrate Paleontology* 40, supplement to no. 2, Memoir 21:4-18.
- O'Connor, P.M., A.H. Turner, J.R. Groenke, R.N. Felice, R.R. Rogers, D.W. Krause, and L.J. Rahantarisoa. 2020. Late Cretaceous bird from Madagascar reveals unique development of beaks. *NATURE* 588: 272-276.
- Rogers, R.R., **A.K. Regan***, **L.N. Weaver***, J.T. Thole, H.C. Fricke. 2020. Tracking authigenic mineral cements in fossil bones from the Upper Cretaceous (Campanian) Two Medicine and Judith River formations of Montana. *PALAIOS* 35:135-150.
- Krause, D.W., S. Hoffmann, Y. Hu, J.R. Wible, G.W. Rougier, E.C. Kirk, J.R. Groenke, R.R. Rogers, J.B. Rossie, J.A. Schultz, A.R. Evans, W. von Koenigswald, and L.J. Rahantarisoa. 2020. Skeleton of Cretaceous mammal from Madagascar reflects long-term insularity. *NATURE* 581:421-427.
- Krause, D.W., J.W. Sertich, P.M. O'Connor, K.A. Curry Rogers, and R.R. Rogers. 2019. The Mesozoic biogeographic history of Gondwanan terrestrial vertebrates: Insights from Madagascar's fossil record. *Annual Reviews of Earth and Planetary Sciences* 47:519-553.

- Rogers, R.R., K.A. Curry Rogers, B.C. Bagley, J.J. Goodin*, J.H. Hartman, J.T. Thole, and M. Zatoń. 2018. Pushing the record of trematode parasitism of bivalves upstream and back to the Cretaceous. *GEOLOGY* 46:431-434.
- Obrist-Farner, J., P. Ball, T. McGilvery, and R. Rogers. 2017. A prograding margin during global sea-level maxima: an example from Mahajanga Basin, northwest Madagascar. *Basin Research* doi: 10.1111/bre.12270.
- Rogers, R.R., K.A. Curry Rogers, M.T. Carrano, M. Perez*, and A. Regan*. 2017. Isotaphonomy in concept and practice: an exploration of vertebrate microfossil bonebeds in the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana. *Paleobiology* 43:248-273.
- 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.
- 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.
- Krause, D.W., R.R. Rogers, L.J. Rahantarisoa, J.G. Groenke, and H. Anriamiason. 2014. Introduction, systematic paleontology, and geological context of *Vintana sertichi* (Mammalia: Gondwanatheria) from the Late Cretaceous of Madagascar. *Journal of Vertebrate Paleontology* 34, supplement to no. 6, Memoir 6:4-13.
- Krause, D. W., S. Hoffmann, J. R. Wible, E. C. Kirk, J. A. Schultz, W. von 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].
- 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.
- 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.
- Marshall, M.S.*, and R.R. Rogers. 2012. Lungfish burrows from the Upper Cretaceous Maevarano Formation, Mahajanga Basin, northwestern Madagascar. *PALAIOS* 27:857-866.
- 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.
- 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.
- 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.
- Romero, A., R.R. Rogers, and L.A. Gershwil. 2011. Medusoid cnidarians from the Montral-Alcover lagerstätten (Triassic), northeastern Spain. *Batalleria* 16:50-57.
- Krause, D.W., J.J.W. Sertich, R.R. Rogers, S.C. Kast*, A.H. Rasoamiamanana, 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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, 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.
- 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.
- 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.
- Rogers, R.R., D.W. Krause, K. Curry Rogers, A.H. Rasoamiamanana, 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.
- 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.
- Lopéz-Arbarello, A., R. Rogers, and P. Puerta. 2006. Freshwater actinopterygians of the Los Rastros Formation (Triassic), Bermejo Basin, Argentina. *Fossil Record* 9:238-258.
- 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.
- Rogers, R.R. 2005. Fine-grained debris flows and extraordinary vertebrate burials in the Late Cretaceous of Madagascar. *GEOLOGY* 33:297-300.
- 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.
- 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., 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.
- 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., 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., 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.
- 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.
- 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. 2000. A multiple taxon/multiple locality approach to providing oxygen isotope evidence for endothermic homeothermy in theropod dinosaurs. *GEOLOGY* 28:799-802.
- 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.
- 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.
- Schweitzer, M.H., J.A. Watt, R. Avci, C.A. Forster, D.W. Krause, L. Knapp, R.R. Rogers, Beech, and M. Marshall. 1999. Keratin immunoreactivity in the Late Cretaceous bird *Rahonavis ostromi*. *Journal of Vertebrate Paleontology* 19:712-722.
- 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.
- 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.
- 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. 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., 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., 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 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.

- 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. 1992. Non-marine borings in dinosaur bones from the Upper Cretaceous Two Medicine Formation, northwestern Montana. *Journal of Vertebrate Paleontology* 12:528-531.
- 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.

ARTICLES IN PREPARATION

Rogers, R.R., E.M. Roberts, D.A. Eberth, and J. Ramezani. **IN PREP.** New CA-TIMS U-Pb ages advance correlation of the Upper Cretaceous (Campanian) Judith River Formation from central Montana into the plains of southern Canada. Planned submission to *Journal of Geology*.

L.N. Weaver*, R. R. Rogers, J.T. Thole. **IN PREP.** Authigenic mineral cements in fossil bones spanning the K-Pg boundary (Hell Creek vs. Tullock), eastern Montana. Planned submission to *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, FIELD GUIDES, ENCYCLOPEDIA ENTRIES, POPULAR ARTICLES

- Rogers, R.R., 2019. Foundations in Paleoecology, Commentary for Chapter 39. University of Chicago Press.
- Rogers, R.R., and D.W. Krause. 2007. Tracking an Ancient Killer. *SCIENTIFIC AMERICAN* (feature article in February 2007 issue):42-51.
- Rogers, R.R. 2006. Meat eating dinosaurs: Teeth marks tell of cannibalism. *Dig* (an archaeology magazine for children) 8:22-23.
- Rogers, R.R. 2003. *How Old is Old: The Evolution of Life on Earth*. Random House Children's Books, USA
- Rogers, R.R. 2001. Paleontology. *Biology*. Macmillan Science Library (R. Robinson, ed.), Macmillan Reference USA.
- Rogers, R.R. 2001. The Cambrian Explosion. *Biology*. Macmillan Science Library (R. Robinson, ed.), Macmillan Reference USA.
- Rogers, R.R. 1997. Ischigualasto Formation, in P. Currie and K. Padian (eds.), *The Dinosaur Encyclopedia*, Academic Press:372-374.
- Rogers, R.R. 1997. Two Medicine Formation, in P. Currie and K. Padian (eds.), *The Dinosaur Encyclopedia*, Academic Press:760-765.
- 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. 1993. Marine facies of the Judith River Formation (Campanian) in the type area, north-central Montana. *Montana Geological Society, 1993 Fieldguide*:61-69.

BOOK REVIEWS

Rogers, R.R., 2011. Review of S. Sampson, 2009, *Dinosaur Odyssey*, University of California Press. *Journal of Vertebrate Paleontology* 31:726.

- 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. 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. 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.

ABSTRACTS LINKED TO PROFESSIONAL CONFERENCES

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

- Reves-Sohn, S.M.* , J.A. Baldus*, and R.R. Rogers. 2019. Recognition of parasequences in the Woodhawk Member of the Upper Cretaceous (Campanian) Judith River Formation, Montana. Geological Society of America Annual Meeting, Paper no. 281-5.
- Zimmermann, P.K.* , A.D. Lang*, G.E. Roat*, K.R. Velasquez*, S.M. Tun*, K.I. Irving*, S.P. Gomez*, N.D. Clark*, K.A. Curry Rogers, and R.R. Rogers. 2019. Taphonomic comparison of vertebrate microfossil bonebeds from the Upper Cretaceous Judith River and Hell Creek formations of Montana. Geological Society of America Annual Meeting, Paper no. 38-23.
- Roat, G.E.* , S.P. Gomez*, S.M. Tun*, K.I. Irving*, A.D. Lang*, N.D. Clark*, P.K. Zimmerman*, K.R. Velasquez*, R.R. Rogers, and K.A. Curry Rogers. 2019. Capturing a Late Cretaceous paleofauna: A new vertebrate microfossil bonebed in the Upper Cretaceous (Campanian) Judith River Formation, Montana. Geological Society of America Annual Meeting, Paper no. 271-11.
- Deckman, M.E.* , D.M. Lovelace, and R.R. Rogers. 2019. Stratigraphy, sedimentary petrology, and depositional environment of the Chugwater Group, near Dubois, Wyoming. Geological Society of America Annual Meeting, Paper no. 202-9.
- Groenke, J.R., P.M. O'Connor, L. Dougan, S.H. Burch, and R.R. Rogers. 2019. Digital and mechanical preparation of delicate skeletal remains from an Upper Cretaceous bonebed in Madagascar. Society of Vertebrate Paleontology Annual Meeting Abstracts, p. 111.
- O'Connor, P.M., A.H. Turner, J.R. Groenke, R.N. Felice, and R.R. Rogers. 2019. A new avialan fossil from the Maevarano Formation, Mahajanga Basin, NW Madagascar expands cranial shape disparity among Mesozoic birds via an expanded maxilla contributing to enhanced rostralization. Society of Vertebrate Paleontology Annual Meeting Abstracts, p. 162.
- Buckley, G.A., and R.R. Rogers. 2018. Paleomagnetic analysis of the Upper Cretaceous (Campanian) Claggett and Judith River formations in north-central Montana. Geological Society of America Annual Meeting, Paper no. 266-4.
- Rogers, R.R. D.W. Krause, K.A. Curry Rogers, P.M. O'Connor, J. Sertich, J. Groenke, and S. Burch. 2018. Taphonomy of the Maevarano Formation vertebrate assemblage: life and death in the Late Cretaceous of Madagascar. Abstracts, 5th International Paleontological Congress p. 714, Paris France.
- Surprenant, R.L.* , R.R. Rogers, K. Curry Rogers. 2018. Taphonomy of a vertebrate microfossil bonebed in the Upper Cretaceous (Campanian) Two Medicine Formation of Montana – A Comparative Approach. Society of Vertebrate Paleontology Annual Meeting, Abstracts. p. 22.
- Deckman, M.E.* , R.R. Rogers, K. Curry Rogers. 2018. Taphonomy of vertebrate fossils on a marine sequence boundary in the Upper Cretaceous (Campanian) Judith River Formation, Montana. Society of Vertebrate Paleontology Annual Meeting Abstracts, p. 114.
- Weaver, L.N.* , R.R. Rogers, and J.T. Thole. 2017. Authigenic mineralogy and element distributions of vertebrate microfossils from the Hell Creek (latest Cretaceous) and Tullock (Paleocene) formations of eastern Montana. Geological Society of America Annual Meeting, Paper no. 272-9.

- Rogers, R.R., K.A., Curry Rogers, M.P. Zatoń, J.T. Thole, B.C. Bagley, and J. Goodin*. 2017. Evidence for trematode parasitism in Late Cretaceous (Campanian) freshwater bivalves from the Judith River Formation, Montana. Geological Society of America Annual Meeting, Paper no. 272-46.
- Beveridge, T., E. Roberts, J. Ramezani., D. Eberth, and R. Rogers. 2017. A new approach to correlating vertebrate faunas by combining high-precision U-Pb geochronology with geochemical tephrostratigraphy: a case example from the Campanian Western Interior. Journal of Vertebrate Paleontology, Abstracts Volume (77th Annual Meeting), p. 81.
- Swenson, S.K.* , K. Chin, K. Curry Rogers, and R.R. Rogers. 2017. Taphonomy of dinosaur coprolites from the Upper Cretaceous (Campanian) Two Medicine Formation, northwestern Montana. Journal of Vertebrate Paleontology, Abstracts Volume (77th Annual Meeting), p. 201.
- Behrensmeyer, A.K. and R.R. Rogers. 2017. The tyranny of transport in taphonomy - how far do bones really move and how much does it matter? Journal of Vertebrate Paleontology, Abstracts Volume (77th Annual Meeting), p. 79.
- Rogers, R.R., D.W. Krause, K. Curry Rogers, J.R. Groenke, P.M. O'Connor, and J. Sertich. 2017. Twenty years of taphonomic observations and insights in the Upper Cretaceous Maevarano Formation, Madagascar. Journal of Vertebrate Paleontology, Abstracts Volume (77th Annual Meeting), p. 186.
- 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, Monana, 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.
- 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, Monana, using new CA-TIMS U-Pb geochronology. Geological Society of America Annual Meeting, Paper no. 193-9.
- 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. 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 19th Biennial Conference of the Palaeontological Society of Southern Africa, Stellenbosch, p. 55.
- Rogers, R.R. 2016. Twenty years of paleontological adventure and discovery on the Great Red Island, Madagascar. Proceedings of the 19th Biennial Conference of the Palaeontological Society of Southern Africa, Stellenbosch, p. 6 (keynote address of conference).
- 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., 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.
- Colombi, C. and R. Rogers. 2014. Fossil-diagenesis as an indicator of paleoenvironmental conditions: Indications of aridity at the Triassic-Jurassic boundary. 4th International Palaeontological Congress, Mendoza, Argentina, Abstract Volume: 166.

- 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. 4th International Palaeontological Congress, Mendoza, Argentina, Abstract Volume: 160.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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., 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.
- 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. 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.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.*, 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.
- Brady, M.*, and R. Rogers. 2007. Exploring the origins of microfossil bonebeds. *Abstracts of Papers, Journal of Vertebrate Paleontology*, vol. 27, suppl. No. 3:52A.
- Fricke, H., and R. Rogers. 2006. Stable isotope comparisons among Late Cretaceous dinosaur localities: Can inferences related to hadrosaur habitat preference and migration be drawn in light of diagenesis? *Abstracts of Papers, Journal of Vertebrate Paleontology*, vol. 26, suppl. No. 3:106A.
- 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.
- Harwood, C.*, and R. Rogers, 2006. Authigenesis of vertebrate fossils on a marine sequence boundary in the Upper Cretaceous Judith River Formation of north- central Montana, U.S.A. *Geophysical Research Abstracts*, vol. 8:04901.
- 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
- 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.
- 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.
- 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.
- 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.

- Rogers, R. R. 2005. Fine-grained debris flows and extraordinary vertebrate burials in the Late Cretaceous of Madagascar. Abstracts with Program, Geological Society of America 37:24.
- 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.
- Brady, M.* , R. Rogers, and B. Sheets. 2004. An experimental approach to bone concentration. Journal of Vertebrate Paleontology 24 (suppl. to no. 3):41A.
- Dwyer, C.N.* , R.R. Rogers, H. Fricke, and J.T. Thole. 2004. A comparative investigation of diagenesis in fossil teeth: A case study from the Upper Cretaceous Two Medicine and Judith River formations of Montana. Geological Society of America Abstracts with Programs, Vol. 36, no. 5:64.
- 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.
- 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.
- Roberts, E.* , R. Rogers, and B. Foreman*. 2003. An experimental approach to identifying and interpreting dermestid (Insecta, Coleoptera) bone modification. Journal of Vertebrate Paleontology 23 (suppl. to 3):89A.
- Gates, T., E. Roberts*, and R. Rogers. 2003. Drought in the vertebrate fossil record: a review of fossil and modern drought-related assemblages. Journal of Vertebrate Paleontology 23 (suppl. to 3):53A.
- 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.
- 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.
- 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.
- 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.
- Gottfried, M., R. Rogers, and K. Curry Rogers, 2002. Coelacanth and amiid fishes present in the Late Cretaceous of Madagascar. Journal of Vertebrate Paleontology 22, Supplement to Number 3:60A.
- 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.
- Terry, R.C.* , R.R. Rogers, K.R. Wirth, 2001. Geochemical characterization and origin of the Mpandi silcrete (Late Jurassic?), Limpopo Valley, Zimbabwe: Geological Society of America, Annual Meeting, Abstracts and Program, v. 33:A446.
- Rogers, R.R., A.B. Arcucci, and F. Abdala. 2001. Taphonomy of the Chañares Formation tetrapods (Triassic, Argentina): Spectacular preservation in volcanogenic concretions: Journal of Vertebrate Paleontology 21, Supplement to Number 3.
- Rogers, R. R., A.B. Arcucci, and F. Abdala. 2001. Taphonomy of the Chañares Formation tetrapod assemblage (Middle Triassic), northwestern Argentina: Spectacular preservation in volcanogenic concretions: XVII Jornadas Argentinas de Paleontología de Vertebrados, Esquel – Chubut:32.

- Rogers, R., K. Curry Rogers, D. Munyikwa, and R. Terry. 2000. The beginning of the age of dinosaurs in southern Zimbabwe: A geological and paleontological overview: *Journal of Vertebrate Paleontology* 20, Supplement to Number 3:64A.
- 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.
- 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.
- Rogers, R.R., and J.H. Hartman, 1999. Depositional setting and paleoclimate of the Maevarano Formation, Madagascar: Paleoenvironment of a remarkable Late Cretaceous vertebrate fauna: *Abstracts VII International Symposium on Mesozoic Terrestrial Ecosystems, Buenos Aires*:56.
- 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.
- Fiorillo, A.R., and R.R. Rogers, 1999. Bonebeds: A nomenclatural and historical overview: *Journal of Vertebrate Paleontology* 19, Supplement to Number 3:44A.
- Rogers, R.R., and S.M. Kidwell, 1999. Geological Origins of Bonebeds: *Journal of Vertebrate Paleontology* 19, Supplement to Number 3:71A.
- 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.
- 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.
- 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.
- 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.
- 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 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.
- 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.
- 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.
- 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.
- 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.

- 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.
- 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., 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.
- 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 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. 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 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.
- 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. 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.
- 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. 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., 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.
- 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 Paleontología y Biostratigraphia, Trelew-Chubut: Resumenes Museo Paleontologico Edigio Feruglio:16.
- 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.
- 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., 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., 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.
- 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., 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.
- Rogers, R.R. 1988. Taphonomy of a hadrosaur bonebed, Two Medicine Formation, northwestern Montana: Journal of Vertebrate Paleontology 8, Supplement to Number 3:24A.
- 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.

INVITED LECTURES

- 2021: Invited Speaker, Carleton University (Ottawa), Dept. Earth Science, Dinosaur Taphonomy Lecture
- 2020: Invited Speaker, J. Kruschnitt Lecture Series, James Cook University, Australia [COVID-19 cancel]
- 2019: Invited Speaker, Great Plains Dinosaur Museum, Judith River Formation Symposium
- 2019: Invited Speaker, Minnesota Herpetological Society, Monthly Colloquium
- 2019: Invited Speaker, Science Museum of Minnesota, Dino Fest
2018. Invited Speaker, Palaeobiodiversity and Evolutionary History of Vertebrates in Africa, 5th International Palaeontological Congress, Paris
2018. Invited Speaker, Minnesota Geological Society
2017. Invited Speaker, University of Georgia, Geology Department Weekly Colloquium
2017. Invited Speaker, Denver Museum of Nature and Science, Museum Colloquium
2016. Invited Speaker, University of Washington, PaleoLunch Speaker Series
2016. Invited Speaker, Geological Society of America, High-Precision Geochronological Constraints on the Geologic History of Dinosaur Evolution, Annual Meeting, Denver
2016. Invited Keynote Speaker, Palaeontological Society of Southern Africa, 19th Biennial Meeting, Stellenbosch University, South Africa
2015. Invited Speaker, University of Mauritius (Réduit, Mauritius)
2015. Invited Speaker, University of Colorado (Boulder), Department of Geological Sciences
2014. Invited Speaker, Symposium of Vertebrate Taphonomy, 4th International Palaeontological Congress, Mendoza, Argentina
2013. Invited Participant, Cretaceous-Paleocene Food Web Workshop, University of California Museum of Paleontology, Berkeley
2011. Invited Speaker/Convener, Symposium of Vertebrate Taphonomy, IV Latin American Congress of Vertebrate Paleontology, San Juan, Argentina
2010. Invited Speaker, Virginia Tech, Department of Geosciences
2009. Invited Speaker, University of Michigan, Department of Geological Sciences
2008. Invited Speaker, Minnesota Geological Society
2008. Invited Speaker, Eastern Tennessee State University, Department of Biology

2007. Invited Speaker, Michigan State University, Department of Geological Sciences
2006. Invited Speaker, Royal Tyrrell Museum, Alberta, Heaton Lecture Series
2006. Invited Speaker, California State University, Fresno, Department of Geology Seminar Series
2005. Invited Speaker, University of Utah, Geology Department Seminar Series
2005. Invited Speaker, University of Minnesota, Department of Geology and Geophysics Seminar Series
2005. Invited Speaker, Minnesota Geological Survey, Visiting Lecturer Series
2005. Invited Speaker, McGill University, Geology Department Seminar Series
2004. Invited Speaker, University of Wyoming, Geology Department Seminar Series
2004. Invited Speaker, University of Minnesota – Duluth, Geology Department Seminar Series
2004. Invited Speaker, Norwich University, Geology Department Seminar Series
2002. Invited Speaker, Linda Hall Library of Science, Linda Hall Lecture Series
2001. Invited Speaker, Minnesota Geological Society
2001. Invited Speaker, Geological Society of America, Topical Session at the National Meeting (Boston), Stratigraphic Paleobiology
2000. Invited Speaker, Minnesota Geological Society
1998. Invited Keynote Speaker, Annual Pew Research Symposium, Washington University
1997. Invited Speaker, State University of New York, Stony Brook, Department of Anatomy Lecture Series
1996. Invited Speaker, University of Nebraska, Geology Lecture Series
1996. Invited Speaker, University of Iowa, 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"
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
1994. Invited Speaker, Montana Geological Society, Billings, Montana
1994. Invited Speaker, Evolutionary Morphology Lecture Series, University of Chicago
1993. Invited Speaker/Author. "Taphonomic Approaches to Time Resolution in Fossil Assemblages", a short course of the Paleontological Society, Geological Society of America Meeting, Boston
1991. Invited Speaker, Cretaceous Nonmarine Paleogeography and Paleobiology of Laurasia, Geological Association of Canada, Toronto

AWARDS AND EXTERNAL GRANTS

- 2018-2019. Keck Consortium Gateway Project, Exploring Late Cretaceous wetland ecosystems: Dinosaurs and vertebrate microfossils in Montana
- 2017-2020. Building a Sustainable Program in Paleontology at Macalester College. David B. Jones Foundation
- 2015-2018. Research Grant, National Science Foundation (EAR 1528273), Cretaceous Vertebrates from Madagascar: A Window into the Biogeographic and Plate Tectonic History of Gondwana
- 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
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
2012. Jack and Marty Rossmann Excellence in Teaching Award, Macalester College

- 2011-2017. 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
- 2011-2014. Research Grant, National Science Foundation (EAR 1123642), Cretaceous Vertebrates from Madagascar: A Window into the Biogeographic and Plate Tectonic History of Gondwana
2009. Equipment Grant, National Science Foundation, variable pressure scanning electron microscope for Science Division (Keck Lab)
- 2009-2013. Research Grant, Bureau of Land Management – This grant funds research in the Upper Missouri River Breaks National Monument
2005. Equipment Grant, National Science Foundation (EAR 0520870), X-Ray diffractometer (XRD) for the Science Division (Keck Lab)
- 2005-2010. Research Grant, National Science Foundation (EAR-0446488), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography"
- 2003-2006. Research Grant, National Science Foundation (EAR-0319041), Collaborative/RUI Research: Stable Isotope Reconstruction of North American Terrestrial Environments During the Late Cretaceous
- 2001-2004. Research Grant, National Science Foundation (EAR-106477), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography"
1998. Research Grant, National Geographic Society, "Paleontology and Geology of the Limpopo Valley, Zimbabwe: Exploring Early Dinosaur Evolution in Southern Africa"
1998. Research Experiences for Undergraduates Supplement, National Science Foundation, "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography"
- 1997-2001. Research Grant, National Science Foundation (EAR-9706302), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography"
1993. Romer Prize, best student paper, national meeting of the Society of Vertebrate Paleontology, Albuquerque
1991. Outstanding Mention, Geological Society of America student award for grant proposal

ROGERS LAB MEMBERS (CURRENT STUDENTS AND ALUMS)

SENIOR HONORS THESES (n=37)

- 2022 – Alexander Johanson: Subsurface tracking a nonmarine sequence boundary in the Upper Cretaceous (Campanian) Two Medicine Formation of Montana. In progress.
- 2021 – Chloe Kahn: Modification features on vertebrate fossils preserved in vertebrate microfossil bonebeds of the Cretaceous Hell Creek Formation, Montana.
- 2020 – Sintra Reves-Sohn: *Recognition of parasequences in the Woodhawk Member of the Upper Cretaceous (Campanian) Judith River Formation, Montana.*
- 2019 – Max Deckman: *Stratigraphy, sedimentary petrology, and depositional environment of the Chugwater Group, near Dubois, Wyoming.* MS candidate, University of Georgia.
- 2018 – Rachel Surprenant: *Taphonomy of a vertebrate microfossil bonebed in the Upper Cretaceous Two Medicine Formation, Montana.* MS (completed), PhD candidate, University of California, Riverside.
- 2017 – Ted Toegel: *Characterization of phosphorite nodules in the Phosphoria Formation, SE Idaho.*
- 2017 – Sierra Swenson: *Taphonomy of Late Cretaceous (Campanian) coprolites of the Two Medicine Formation of northwestern Montana.* MS (2019), University of Georgia, presently a Research Geologist at Exxon.
- 2017 – Anik Regan: *Comparative taphonomy of molluscan death assemblages from the Gulf of Mexico.* MS candidate, University of Georgia.

- 2016 – Patrick Sullivan: *Feeding traces in vertebrate microfossil bonebeds from the Upper Cretaceous Judith River Formation, Montana*. MS candidate, Colorado School of Mines.
- 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*. Logistics Coordinator, Outward Bound California
- 2016 – Cedric Hagen: *Geological context and paleoenvironment of the *Lotosaurus adentus* (Archosauria:Poposauroidae) bonebed, Middle Triassic Badong Formation, China*. PhD candidate, Oregon State University.
- 2015 – Bolton Howes: *Characterization of a regionally significant terrestrial bounding surface in the Upper Cretaceous Two Medicine Formation, Montana*, 28 p. MS University of Georgia, PhD candidate, Princeton University.
- 2015 – Benjamin Faulkner: *Nonmarine turtles from the Upper Cretaceous (Campanian) Judith River Formation of North-Central Montana: Taxonomy and Paleocology*, 29 p., Public Programs Presenter, California Academy of Sciences, presently a PhD candidate, University of California, Davis.
- 2012 – Madeline Marshall: *Exceptional Record of Lungfish Burrows from the Upper Cretaceous Maevarano Formation, Mahajanga Basin, Northwestern Madagascar*, 70 p. PhD, University of Chicago, Assistant Professor, Albion College.
- 2012 – Jansen Smith: *Confamilial predation on naticid gastropods through a pulsed extinction in the Plio-Pleistocene of the Carolinas*, 155 p. PhD, Cornell University, Postdoctoral Researcher at Friedrich Alexander University of Erlangen-Nuremberg.
- 2011 – Deirdre Ratigan: *Using experimental taphonomy to replicate bone alteration in the Judith River Formation (Upper Cretaceous, Montana)*, 83 p. MS, University of Wyoming.
- 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. PhD (2017), Iowa State University, Research Scientist, USGS.
- 2010 – Jeffrey Dobbins: *A geochemical analysis of the volcanic ash bed deposit at Ashfall Fossil Beds, Nebraska*, 41 p. MS, New Mexico Institute of Mining and Technology, Environmental Consultant.
- 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), PhD, University of California Los Angeles, presently Assistant Professor at University of Oregon.
- 2009 – Rachel Murray: *Characterizing environments of fossilization in the Two Medicine and Judith River Formations, Upper Cretaceous, Montana*, 46 p. MS, University of Arizona, PhD (2018), Southern Cross University (Australia).
- 2009 – Ken Nelson: *Clay and framework mineralogy of the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana*, 61 p.
- 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. PhD, University of Alberta (Edmonton), Assistant Professor, College of Charleston.
- 2008 – Sophia Kast: *Reconstructing Late Cretaceous climate in the Mahajanga Basin of northwestern Madagascar*, 92 p. Biological Scientist, U.S. Forest Service.
- 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. MS, University of Wyoming, PhD, Yale University, presently a post-doc at Univ. Massachusetts Amherst.
- 2006 - Cara Harwood: *Authigenic mineralization and geochemical taphonomy of vertebrate microfossils from the Upper Cretaceous Judith River Formation of Montana*, 107 p. PhD, University of California, Davis, Director of Professional Development and Teaching, University of Wisconsin.

- 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. PhD (2012), University of Chicago, Associate Professor (with tenure), Fresno State University.
- 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. master's student at University of Wisconsin, Milwaukee.
- 2005 – Brett Dennis-Duke: *Revisiting the magnetostratigraphy of the Upper Cretaceous Berivotra and Maevarano Formations, northwestern Madagascar*, 57 p.
- 2004 – Brady Foreman: *Geochemical characterization and discrimination of bentonites in the Upper Cretaceous Two Medicine Formation, northwestern Montana*, 58 p. PhD, University of Wyoming, post-doc, University of Minnesota, Associate 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. MS (2006), Michigan State University, PhD, Uppsala University (Sweden).
- 2003 – Michelle Casey: *Magnetostratigraphy of the Upper Cretaceous Maevarano and Berivotra formations, Mahajanga Basin, northwestern Madagascar*, 130 p. MS, Virginia Tech, PhD (2011), Yale University, Assistant Professor, Towson University.
- 2002 – Elizabeth Hajek: *Comparative sedimentology of two Late Cretaceous localities near New Ulm, Minnesota*, 83 p. MS and PhD (2009), University of Wyoming, Associate Professor (with tenure), Pennsylvania State University.
- 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, Associate Professor (with tenure), Oregon State University.
- 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, 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.
- 1999 – Lillian Sandler: *Taphonomy and paleoecology of an unusually well-preserved sample of herbivore coprolites from the Chadron Formation (Eocene), South Dakota*, 96 p.

CAPSTONE PROJECTS ADVISED (n=15)

- 2021 – Etienne Chenevert: *Modification features on vertebrate fossils preserved in vertebrate microfossil bonebeds of the Cretaceous Judith River Formation, Montana.*
- 2020 – Joseph Baldus: *Recovering base level signals from lignite deposits, Upper Cretaceous Judith River Formation, Montana.*
- 2020 – Matthew Heppleston: *Comparative petrology of Cambrian sandstones.*
- 2017 – Jamie Goodin: *Evidence for trematode parasites on freshwater bivalves in the Upper Cretaceous Judith River Formation, Montana.*
- 2016 – Elizabeth Stutts: *An exploration of fossil lagerstätten.* Microscope Analyst at EMSL Analytical.
- 2015 – Victoria Lewis: *XRCT analysis of microfossil bonebeds from the Cretaceous of Montana.*
- 2014 – Magaly Perez: *Comparative taphonomy of vertebrate microfossil bonebeds in the Upper Cretaceous Judith River Formation, Montana.* MS Fresno State University, Teaching Intern, Sanger Unified School District, California.

- 2014 – Alexandra Lawrence: *Description and interpretation of fossil egg shell from vertebrate microfossil bonebeds in the Cretaceous Judith River Formation, Montana.*
- 2014 – Cove Fylpaa: *Sedimentology and taphonomy of strandline sands on the beaches of San Salvador Island, Bahamas.* Tour Mechanic/Aide, TDA Global Cycling.
- 2014 – Margo Yaravitz: *Geochemistry of paleosols from the Bighorn Basin, Wyoming.*
- 2013 – Adam McCullough: *Geochemistry of host sediments preserving vertebrate microfossils, Judith River Formation, Montana.*
- 2013 – Danny Morel: *Sedimentology and geochemistry of the volcanic ash deposit at Ashfall State Park, Nebraska.* PhD candidate, University of California, Santa Barbara.
- 2012 – Andrew Lund: *Taphonomy of vertebrate bioclasts in bonebeds of the Judith River Formation, Montana.* Logistics Manager, Laughing Monk Brewing.
- 2010 – Karanina Scheel: *Characterization and depositional history of the main volcanic ash deposit at Ashfall State Park, Nebraska.* Dog Groomer, Ollu Dog Wash.
- 2002 – Abigail Merlis: *Exploration of concretion formation in the Cretaceous sediments of western Minnesota.* MS in education and in architecture, University of Minnesota, Art Specialist, Belle Plaine School District.

GRADUATE STUDENTS ADVISED (COMMITTEE MEMBER)

- Anton Wroblewski (PhD, Univ. Wyoming)
- Eric Roberts (PhD, Univ. Utah)
- Terry Gates (PhD, Univ. Utah)
- Francois Therrien (PhD, John Hopkins Univ.)
- Cynthia Crane (MS, East Carolina University)
- Laura Vietti (PhD, Univ. Minnesota)
- David Lovelace (PhD, Univ. Wisconsin)
- Sierra Swenson (MS, Univ. Georgia) (Macalester grad)
- Luke Weaver (PhD, Univ. Washington) **current**
- Samantha Gogol (PhD, Univ. Minnesota) **current**
- Anik Regan (MS, Univ. Georgia) **current** (Macalester grad)
- Rachel Laker (PhD, Univ. Chicago) **current**

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), Paleontological Society (since 2017), Palaeontological Society of Southern Africa (since 2017)