Raymond R. Rogers
DeWitt Wallace Professor
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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, 2016-2022, 15 yrs total as chair), 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 CHAPTERS (ALL ARE PUBLISHED unless marked IN PRESS)

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

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My contributions include:

•Preface

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"DINOSAURS OF MONTANA" BOOK PROJECT (IN PRODUCTION)

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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

2024: Invited Speaker, Montana State University, Museum of the Rockies, "Dinosaurs and MOR" event
2023: Invited Speaker, Minnesota Geological Society
2023: Invited Speaker, Carleton University (Ottawa), Dept. Earth Science, Dinosaur Taphonomy Lecture
2023: Invited Speaker, Rotary Club of Edina, Why are Dinosaurs Rare in Minnesota?
2022: Invited Speaker, Science Museum of Minnesota, Dino Fest, Expert Lecture
2022: Invited Speaker, Carleton University (Ottawa), Dept. Earth Science, Dinosaur Taphonomy Lecture
2021: Invited Speaker, Rotary Club of Edina, Amazing Fossils of Madagascar Lecture (invited back 2023)
2021: Invited Speaker, Science Museum of Minnesota, Ultimate Dinosaurs Exhibition, Expert Lecture
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 Geocrhonological 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

2022. Research Grant, Keck Consortium Gateway Project, Exploring Late Cretaceous wetland ecosystems Part 2: Dinosaurs and vertebrate microfossils in Montana
2022-2026. Research Grant, Enriching the Paleontology Experience at Macalester College. David B. Jones Foundation
2019. Endowed Professorship, DeWitt Wallace Professor of Geology
2018-2019. Research Grant, Keck Consortium Gateway Project, Exploring Late Cretaceous wetland ecosystems: Dinosaurs and vertebrate microfossils in Montana

2017-2020. Research Grant, 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, 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=41** as primary advisor, 75% grad school, 50% PhD, 25% T/TT professors)
2025 – Lily Zugschwert: Tiny modification features on tiny fossil bones from the Upper Cretaceous Judith River Formation, Montana: Indicators of feeding ecology (in progress)
2023 – Kari Myhran: *Taphonomy of the Bug Creek Anthills locality, Upper Cretaceous (Maastrichtian) Hell Creek Formation, Montana* (currently applying to graduate programs in paleontology).
2023 – Shaherazade Khan: *Using Ginkgo biloba to test the Franks method of estimating CO_2 in deep time*.
2022 – Alexander Johanson: *Subsurface tracking of a nonmarine sequence boundary in the Upper Cretaceous (Campanian) Two Medicine Formation of Montana*. Environmental Consultant, Seattle.

2022 – Logan McCutcheon: *Taphonomy of phosphatized bryozoans in the Decorah Shale, Minnesota.* MS candidate, South Dakota School of Mines.

2021 – Chloe Kahn: *Modification features on vertebrate fossils preserved in vertebrate microfossil bonebeds of the Cretaceous Hell Creek Formation, Montana*. MS candidate, Rhode Island School of Design (landscape architecture).

2020 – Sintra Reves-Sohn: *Recognition of parasequences in the Woodhawk Member of the Upper Cretaceous (Campanian) Judith River Formation, Montana*. MS candidate, U. Mass Amherst.

2019 – Max Deckman: *Stratigraphy, sedimentary petrology, and depositional environment of the Chugwater Group, near Dubois, Wyoming*. MS (2022), 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*, presently a Field Geologist, Bay West LLC.

2017 – Sierra Swenson: *Taphonomy of Late Cretaceous (Campanian) coprolites of the Two Medicine Formation of northwestern Montana.* MS (2019), University of Georgia, Research Geologist, Exxon, currently collections manager, Denver Museum of Nature and Science.

2017 – Anik Regan: *Comparative taphonomy of molluscan death assemblages from the Gulf of Mexico.* MS, University of Georgia (2021), presently Geology Lab Manager, University of St. Thomas.

2016 – Patrick Sullivan: *Feeding traces in vertebrate microfossil bonebeds from the Upper Cretaceous Judith River Formation, Montana*. MS, Colorado School of Mines, presently PhD candidate at same institution.

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*. Landscape and Portrait Photographer (http://evankartheiser.com).

2016 – Cedric Hagen: *Geological context and paleoenvironment of the Lotosaurus adentus (Archosauria: Poposauroidea) bonebed, Middle Triassic Badong Formation, China.* PhD, Oregon State University, presently a post-doc at Princeton 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, Princeton University, currently a post-doc at Princeton University.

2015 – Benjamin Faulkner: *Nonmarine turtles from the Upper Cretaceous (Campanian) Judith River Formation of North-Central Montana: Taxonomy and Paleoecology*, 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 (TT), 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, Assistant Professor (TT), University of Minnesota - Duluth.

2011 – Deirdre Ratigan: *Using experimental taphonomy to replicate bone alteration in the Judith River Formation (Upper Cretaceous, Montana)*, 83 p. MS, University of Wyoming, licensed pilot flying commercial helicopters and fixed-wing planes.

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 (TT) at the 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 (TT), 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, presently MS student, University of British Columbia.

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 (tenured), 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. MLA (2021), Harvard University.

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 (tenured), 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, Associate Professor (tenured), 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 (tenured), 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 (tenured), 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 (TT), 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=20)
2023 – Nicole Sponseller: *Sandstone petrology of the Upper Cretaceous Virgelle and basal Two Medicine formations, northwestern Montana.*
2023 – Justin Anderson: *Bone diagenesis in the Upper Cretaceous Hell Creek Formation, North Dakota.*
2023 – Zia McGarry: *Comparing the end-Permian and Late Triassic mass extinction events.*
2023 – Brooke Noonan: *Bone modification features of the Judith River Formation, Upper Cretaceous, Montana.*
2021 – Etienne Chenevert: Modification features on vertebrate fossils preserved in vertebrate microfossil bonebeds of the Cretaceous Judith River Formation, Montana. MS, Indiana University.
2020 – Joseph Baldus: *Recovering base level signals from lignite deposits, Upper Cretaceous Judith River Formation, Montana*.
2020 – Matthew Heppleston: *Comparative petrology of Cambrian sandstones.* Geologist, AECOM Environmental Services
2017 – Jamie Goodin: *Evidence for trematode parasites on freshwater bivalves in the Upper Cretaceous Judith River Formation, Montana.* MS candidate, Harvard University (landscape architecture).
2016 – Elizabeth Stutts: *An exploration of fossil laggerstatten.* Microscope Analyst at EMSL Analytical.
2015 – Julian Thies: *Documenting bryozoans in a microfossil bonebed in the Upper Cretaceous Judith River Formation, Montana.*
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 eggshell from vertebrate microfossil bonebeds in the Cretaceous Judith River Formation, Montana*. Paleontologist, Collections Organization, Smithsonian
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*. MS, University of California, Santa Barbara, Geologist, Arcadis.
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/EXAMINER)

- 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)
- Anik Regan (MS, Univ. Georgia) (Macalester grad)
- Rachel Laker (PhD, Univ. Chicago)
- Samantha Gogol (PhD, Univ. Minnesota) current
- Michael Chiappone (MS, Univ. Minnesota) current
- Isiah Newbins (PhD, Univ. Washington) current
- Lutendo Mukwevho (MS, Univ. Witwatersrand) current examiner

PROFESSIONAL AFFILIATIONS AND SERVICE

- Board Member (current Secretary), David B. Jones Foundation, 2015-present
- 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)