

ROSS PETER ANDERSON

Associate Professor of Natural History
Royal Society University Research Fellow
Interim Head of Research

Museum of Natural History, University of Oxford

Fifty-Pound Fellow
All Souls College, University of Oxford

Research Interests: Preserving the rise of complex life

Early life, Earth history, Geobiology, Palaeobiology, Taphonomy - Exceptional Preservation

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Date of Birth/Nationality: 13 February 1989 / British (UK)

APPOINTMENTS

Associate Professor of Natural History & Royal Society University Research Fellow	Museum of Natural History University of Oxford	2025–Present
Interim Head of Research	Museum of Natural History University of Oxford	2024–Present
Fifty-Pound Fellow	All Souls College University of Oxford	2023–Present
Senior Researcher of Natural History & Royal Society University Research Fellow	Museum of Natural History University of Oxford	2024–2025
Royal Society University Research Fellow	Dept. of Earth Sciences University of Oxford	2022–2024
Post-Doctoral Research Fellow in Life Sciences (<i>Independent early career research fellowship</i>)	All Souls College University of Oxford	2017–2022

EDUCATION

PhD Geology and Geophysics <i>Advisor: Derek E.G. Briggs</i>	Yale University	2012–2017
MPhil Geology and Geophysics <i>Advisor: Derek E.G. Briggs</i>	Yale University	2012–2014
AB Earth and Planetary Sciences <i>Magna cum laude with highest honours and French language citation, GPA 3.817</i> <i>Advisor: Andrew H. Knoll</i>	Harvard University	2008–2012
Harry Carlton Comprehensive School	Loughborough, UK	2000–2007

FELLOWSHIPS & SCHOLARSHIPS

University Research Fellowship <i>Renewal possible to 2030</i>	£ 612,620	Royal Society	2022–2027
Post-Doctoral Research Fellowship	£ ~350,000	All Souls College, Uni. of Oxford	2017–2022
Earth and Space Science Fellowship	\$ 90,000	NASA	2014–2017
University Fellowship		Yale University	2012–2017
Edwin Binney Fellowship		Yale University	2012–2015
Robert Tucker Hayes Cornerstone Scholarship		Harvard University	2010–2012
Summer Undergraduate Research Fellowship	\$ 5,000	Harvard Origins of Life Initiative	2011

RESEARCH GRANTS

University Research Fellowship Enhancement	£ 398,805	Royal Society	2022–2027
User Access SM34183 (co-I) 15 shifts Infrared beamline		Diamond Light Source	2023
Undergraduate Research Bursary (co-I/supervisor)	£ 2,188	Palaeontological Association	2023
User Access SM34019-1 (co-I) 2 shifts Infrared beamline		Diamond Light Source	2023
NEOF Proteomics Pilot Project 1502 (co-I)	£ 15,000	UKRI NERC	2022
User Access SP1630-1 (co-I) 6 shifts Microfocus beamline		Diamond Light Source	2022
John Fell OUP Fund for fieldwork	£ 3,570	University of Oxford	2019
User Access SM21059 18 shifts Infrared beamline		Diamond Light Source	2018
Research Grant for fieldwork	£ 16,670	Royal Society	2018
User Access SM15975 (co-I) 12 shifts Infrared beamline		Diamond Light Source	2017
Director's Discretionary (co-I) 6 shifts Infrared beamline		Advanced Light Source	2016
Student Research Grant for PhD research visit	\$ 800	Paleontological Society	2016
Graduate Student Research Grant for PhD research visit	\$ 1,023	Geological Society of America	2016
Daniel Pidgeon Fund for PhD research visit	\$ 1,392	Geological Society of London	2016
Dissertation Improvement Grant for PhD research	\$ 4,000	Yale Inst. for Biospheric Studies	2015
NASA Astrobiology Lewis & Clark for PhD fieldwork	\$ 3,293	American Philosophical Society	2014
Doctoral Pilot Grant for PhD research	\$ 2,500	Yale Inst. for Biospheric Studies	2014
Student Geoscience Grant for PhD fieldwork	\$ 7,500	ExxonMobil/Geol. Soc. America	2014
Fermor Fund for conference attendance	£ 1,000	Geological Society of London	2012

AWARDS

Vice-Chancellor's Outstanding Contribution Award	University of Oxford	2025
Best Lectures in Earth Sciences	University of Oxford	2020
Simpson Prize for a paper on evolution and the fossil record	Yale Peabody Museum	2020
Best Lectures in Earth Sciences	University of Oxford	2019
President's Prize for the best early career talk	Palaeontological Association	2017
Orville Prize for outstanding research and scholarship in the earth sciences	Yale University	2017
Geobiology & Geomicrobiology Student Award for best student talk	Geological Society of America	2016
Excellence in Teaching Prize	Yale University	2016
MAPS Outstanding Student Award for top 3 student research proposals	Paleontological Society	2016
Hammer Prize to an outstanding geology PhD student	Yale University	2014
Structural Geology & Tectonics Award for outstanding research proposal	Geological Society of America	2014
Geophysics Award for outstanding research proposal	Geological Society of America	2014
Hatcher Award for field-based research by an outstanding PhD student	Geological Society of America	2014
Fermor Prize for the best independent research as an undergraduate	Geological Society of London	2012
Bateman Award for outstanding undergraduate performance	Yale University	2012
Fay Prize Nominee one of only three science senior theses receiving nomination	Harvard University	2012
Hoopes Prize for outstanding scholarly work or research as an undergraduate	Harvard University	2012

Honourable Mentions: President's Prize (Palaeontological Association, 2013,2016); Jérôme H. Remick Award (Geological Association of Canada, 2015)

PROFESSIONAL EXPERIENCE

Leadership Effectiveness Course	Royal Society/Imperial College	2024
Associate Researcher	Mus. of Nat. His., Uni. of Oxford	2022–2024
Introduction to Management Course	Royal Society/Imperial College	2023
Networking and Promoting Yourself Course	Royal Society	2023
Mentoring Scheme and Workshop	Royal Society	2022–2023
Advanced Geobiology Field Course	Agouron Institute	2015
International Geobiology Course	Uni. of Southern California	2013
Harvard Origins of Life Undergraduate Research Fellowship	University of Birmingham	2011
Seismology Research Assistant	Harvard University	2010–2011
Placement Trainee/Summer Placement Trainee	E.ON Engineering UK	2007–2010

FIELD EXPERIENCE

Fieldwork:

Cango Caves Group, South Africa (7 days, <i>planned Nov 25</i>)	Tonian Geobiology	2025
Mackenzie Mountains, NW Territories, Canada (10 days)	Tonian Geobiology	2024
Svalbard, Norway (1 month)	Neoproterozoic Geobiology	2019
Svalbard, Norway (1 month)	Neoproterozoic Geobiology	2018
Khuvsgul Terrane, Khuvsgul, Mongolia (8 days)	Ediacaran/Cambrian Geobiology	2017
Zavkhan Terrane, Gobi-Altai, Mongolia (10 days)	Neoproterozoic Geobiology	2014
Avalon Terrane, Newfoundland, Canada (8 days)	Ediacaran Tectonics	2014
Zavkhan Terrane, Gobi-Altai, Mongolia (10 days)	Neoptz./Cambrian Geobiology	2013
Isle of Islay, UK (5 days)	Cryogenian Geobiology	2011

Field Trips Organised/Led:

Isle of Arran (9 day) <i>Arran, UK for ~35 undergraduate students</i> <i>Led with C. MacNiocaill</i>	Earth Sciences, Uni. of Oxford	2025
Ediacaran England (2 one-day) <i>Leicestershire, UK for ~35 undergraduate students</i> <i>Led with F. Dunn and C. Nichols (1 trip) and D. Pyle, S. Robinson, and E. Saupe (1 trip)</i>	Earth Sciences, Uni. of Oxford	2021
Regional Perspectives on Geoscience: Alpine Europe (2 weeks) <i>Germany, Switzerland, and Italy for ~25 undergraduate and postgraduate students</i> <i>Led with M. Brandon and H. Petermann</i>	Geology and Geophysics, Yale	2015
Regional Perspectives on Geoscience: Great Britain (2 weeks) <i>England, Wales, Scotland, UK for ~25 undergraduate and postgraduate students</i> <i>Led with M. Brandon and C. Thissen</i>	Geology and Geophysics, Yale	2013

Field Trips Attended:

Canada (Alberta, British Columbia, Maritime Provinces), Italy, USA (Colorado, Death Valley, Hawaii, New England, New Mexico, Utah, Texas, Wyoming)

TEACHING, MENTORING, & MANAGEMENT EXPERIENCE

Line-management:

Direct line-management of senior researchers (3 permanent academics), Museum of Natural History, University of Oxford, with overall responsibility for Research Section of the Museum	2024–Present
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Post-Doctoral Mentor:

Dr Piyush Sriwastava (University of Oxford) <i>Post-Doctoral Research Assistant funded by Royal Society University Research Fellowship</i> <i>Project: Experimental investigation of clay-organic interactions in fossilisation</i>	2024–Present
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Doctoral Supervisor:

Charlotte Simpson (University of Oxford) <i>NERC Environmental Research Doctoral Training Partnership DPhil Student</i> <i>Project: Exploring the habitability of Precambrian Northwest Scotland</i> <i>Co-supervised with R. Palin, C. Nichols, F. Dunn</i>	2025–Present
Sanaa Mughal (University of Alberta) <i>Earth and Atmospheric Sciences PhD Student</i> <i>Project: The fossil record of early eukaryotes</i> <i>Co-supervised with K. Konhauser (U. of Alberta)</i>	2025–Present
Minxuan Zhu (University of Oxford) <i>Earth Sciences DPhil Student</i> <i>Project: Insights into early eukaryotic evolution from the Brasier Collection</i> <i>Co-supervised with F. Dunn, L. Parry</i>	2024–Present
George Wedlake (University of Oxford) <i>NERC Environmental Research Doctoral Training Partnership DPhil Student</i> <i>Project: The Tonian rise of crown eukaryotes</i> <i>Principal Supervisor</i>	2023–Present

Undergraduate/Master's Supervisor:

Ariadokht Ezaz-Nikpay (University of Oxford)	Master's	2024–2025
<i>Master's project: The origin and evolution of eukaryotes: insights from the ~1840 Ma Rove and Virginia Formations and ~850 Ma Bitter Springs Formation</i>		
<i>Now: Internships at Uppsala University, Sweden and Okinawa Institute of Science and Technology, Japan</i>		
Charlotte Simpson (University of Oxford)	Summer intern '24	2024
<i>Internship project: Tracking exceptional fossilisation environments through time with clay minerals</i>		
<i>Now: DPhil student University of Oxford, UK</i>		
Orin Lole Durbin (University of Oxford)	Summer intern '23, '24/Master's	2023–2024
<i>Internships and Master's Project: Mongolian fossils at the dawn of animal life</i>		
<i>Principal Supervisor</i>		
<i>Now: PhD student Virginia Tech, USA</i>		
Lucy Jackson (University of Oxford)	Summer intern '23/Master's	2023–2024
<i>Master's project: Homology or homoplasy in Palaeozoic echinoderm respiratory structures</i>		
<i>Internship project: Understanding the evolution of pharyngeal structures in fossil echinoderms</i>		
<i>Co-supervised with F. Dunn and I. Rahman</i>		
<i>Student won University of Oxford's Brewer-Loughman Award for Undergraduate Research</i>		
<i>Now: PhD student University of Reading/Natural History Museum (London), UK</i>		
Amy Wahab (University of Oxford)	Summer intern '23	2023
<i>Internship project: Reconstructing articulated small shelly fossils from the Cambrian of Mongolia</i>		
<i>Co-supervised with L. Parry</i>		
<i>Now: Collections Assistant, Natural History Museum (London), UK</i>		
Sanaa Mughal (University of Oxford)	Summer intern '21	2021–2023
<i>Internship project: New microfossils from the ~790-million-year-old Svanbergfjellet Formation of Svalbard: Investigating the emergence of green algae</i>		
<i>Principal Supervisor</i>		
<i>Now: PhD student University of Alberta, Canada</i>		
George Wedlake (University of Oxford)	Summer intern '21, '22/Master's	2021–2022
<i>Internships and Master's project: New microfossils from the ~850-million-year-old Veteranen Group of Svalbard: Insights into the nascent eukaryotic world</i>		
<i>Principal Supervisor</i>		
<i>Student won University of Oxford's BP Prize for Best Project, Palaeontological Association Prize for Best Project in Palaeontology, and Brewer-Loughman Award for Undergraduate Research</i>		
<i>Now: DPhil student University of Oxford, UK</i>		

Visiting Lab Researchers:

Professor Peiyun Cong (Yunnan University)	1 year	2025–2026
<i>Sabbatical leave to work on exceptionally preservation in the Ediacaran of China, co-hosted with F. Dunn and L. Parry</i>		
Fiona Anstey (MIT)	1 month	2025
<i>Project: Clumped isotope thermometry using Cambrian small shelly fossils, co-hosted with D. Murdock</i>		
Dr Shengyu Wang (Nanjing Institute of Geology and Palaeo.)	1 month	2025
<i>Project: Testing the influence of clays in exceptional preservation of Jurassic insects</i>		
Sanaa Mughal (University of Alberta)	1 term	2025
<i>Project: Microfossil evidence for the origin of eukaryotes in Palaeoproterozoic successions</i>		
Christina Woltz (University of California, Santa Barbara)	1 month	2018
<i>Project: Testing the influence of clays in the preservation of Proterozoic organic-walled microfossils</i>		

Other Mentorship:

Orin Lole Durbin (Virginia Tech)	Doctoral student committee	2024–Present
Kelly Tingle (Vanderbilt University)	Doctoral student mentor	2024–Present
Spencer Pevsner (University of Oxford)	Doctoral student co-supervisor	2023–Present

Undergraduate classes – lecturer-in-charge:

Co-evolution of Earth and Life (with J. Cosmidis, R. Rickaby, S. Robinson)	Earth Sciences, Uni. of Oxford	2022–Present
Invertebrate Palaeobiology lectures and practical	Earth Sciences, Uni. of Oxford	2018–Present
Palaeobiology (with E. Saupe 2018, N. Santodomingo 2023)	Earth Sciences, Uni. of Oxford	2018, 2023
Major Environmental Change (with J. Cosmidis, R. Rickaby, S. Robinson)	Earth Sciences, Uni. of Oxford	2020–2021

Undergraduate classes - guest lecturer:

Palaeobiology	Earth Sciences, Uni. of Oxford	2022
Major Environmental Change	Earth Sciences, Uni of Oxford	2019

Undergraduate tutorials:

Did oxygen cause the Cambrian Explosion of animals?	Earth Sciences, Uni. of Oxford	2020
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Graduate Student Teaching Fellow:

History of Life	Geology and Geophysics, Yale	2013,2014,2016
Natural Disasters	Geology and Geophysics, Yale	2013
Regional Perspectives on Geoscience: Great Britain	Geology and Geophysics, Yale	2013

SERVICE

Committees/Roles:

Research and Innovation Committee	University of Oxford	2025–Present
Higher Education Teaching Group	Mus. of Nat. His., Uni. of Oxford	2024–Present
General Purposes Committee	All Souls College, Uni. of Oxford	2024–Present
GLAM Research Committee	GLAM, Uni. of Oxford	2024–Present
Senior Leadership Team	Mus. of Nat. His., Uni. of Oxford	2024–Present
Co-Vice-Chair Earth System Science Group	Geological Society of London	2024–Present
Research Group	Mus. of Nat. His., Uni. of Oxford	2024–Present
Public Engagement Group	Mus. of Nat. His., Uni. of Oxford	2024–Present
High Street Development Project Board/Working Group	All Souls College, Uni. of Oxford	2023–Present
Governing Body Member and Trustee	All Souls College, Uni. of Oxford	2023–Present
Property Investment Sub-Committee	All Souls College, Uni of Oxford	2018–Present
REF 2029 PCE Pilot Working Group UoA 7	Earth Sciences, Uni of Oxford	2025
REF 2029 Outputs Review Panel UoA 7	Earth Sciences, Uni. of Oxford	2024
High Street Development Project Board/Working Group	All Souls College, Uni. of Oxford	2021–2022
Junior Dean and Benefices Committee	All Souls College, Uni of Oxford	2020–2022
Domestic Committee	All Souls College, Uni of Oxford	2018–2022
Governing Body Member and Trustee	All Souls College, Uni. of Oxford	2017–2022
Climate Change Working Group	All Souls College, Uni of Oxford	2019
Colloquium Committee	Geology and Geophysics, Yale	2012–2016
Dana Club Treasurer	Geology and Geophysics, Yale	2014–2015

Panels:

NERC Pushing the Frontiers July Assessment Panel 4	UKRI NERC	2025
NERC Pushing the Frontiers Internal July Sift	University of Oxford	2025
Museum Research Fellow Appointment	Mus. of Nat. His., Uni. of Oxford	2024
Chaplaincy Appointment	All Souls College, Uni. of Oxford	2024
SRF election in Life/Environ. Sciences Appointment	All Souls College, Uni of Oxford	2023–2024
Assistant Examiner for the Examination Fellowship	All Souls College, Uni of Oxford	2019, 2024
BEEP Panel for NERC Environmental Research DTP	Earth Sciences, Uni. of Oxford	2022–2023
PDRF elections in Life/Environ. Sciences	All Souls College, Uni of Oxford	2022–2023
Undergraduate Admissions	Earth Sciences, Uni. of Oxford	2021–2022
PDRF election in Theoretical Physics Appointment	All Souls College, Uni of Oxford	2020–2021
Estates Bursar Appointment	All Souls College, Uni of Oxford	2020–2021

Academic Meetings Hosted/Organised:

Palaeontological Association Annual Meeting 2026 Oxford <i>Chair of planning group</i>	Palaeontological Association	2025–Present
Life and Planet meetings <i>Member of organising committee for annual meetings</i>	Geological Society of London	2023–Present
The Past and Future of Life on Our Dynamic Planet <i>Convenor for Hilary Term weekly seminar series</i>	All Souls College, Uni. of Oxford	2024–Present
UK-Japan Frontiers of Science <i>Member of planning group</i>	Royal Society	2025

R P Anderson – CV

Legal Interests in a World of Climate Change <i>Organised with W. Ernst, A. Macdonald, M. Meyerhoff</i>	All Souls College, Uni. of Oxford	2025
Oxford Planets Day <i>Member of planning group</i>	University of Oxford	2025
Earth System Science Group Funding Workshop <i>Hosted workshop of the Geological Society Earth System Science Group</i>	All Souls College, Uni. of Oxford	2025
PalaeoClub Palaeobiology Seminar <i>Convenor for term-time weekly seminar series</i>	Palaeobio. Group, Uni. of Oxford	2019–2025
Royal Society Research Fellows Network Meeting <i>Member of planning group</i>	Royal Society	2024
Climate Protection, Energy Security, Geopolitics: Squaring the Circle <i>Organised with W. Ernst, M. Meyerhoff, S. Toppaladoddi</i>	All Souls College, Uni. of Oxford	2022
Ediacaran Taxonomy Meeting <i>Hosted meeting organised by F. Dunn and C. Kenchington</i>	All Souls College, Uni. of Oxford	2021
Palaeontological Association Annual Meeting 2020 Online <i>Member of science committee</i>	Palaeontological Association	2020
Emergence of Complex Life Meeting <i>Organised with N. Tosca</i>	All Souls College, Uni. of Oxford	2018
Northeastern Geobiology Symposium <i>Organised with E. Bellefroid</i>	Geology and Geophysics, Yale	2014

Conference Sessions Organised:

T76: Exceptional fossilization in time and space <i>Organised with L. Tarhan</i>	Geol. Soc. of America Meeting	2020
T66: Exceptionally preserved Proterozoic and early–Paleozoic fossils <i>Organised with S. McMahon and L. Tarhan</i>	Geol. Soc. of America Meeting	2017

Publication Reviewer:

Australian Journal of Earth Sciences; BioEssays; Chemical Geology; Current Biology; Earth and Planetary Science Letters; Earth Science Reviews; Ecology and Evolution; Fossils and Strata; Frontiers in Earth Science; Geobiology; Geological Magazine; Geological Society of London Books; Geology; Geoscience Frontiers; Global and Planetary Change; GSA Bulletin; iScience; Journal of the Geological Society of London; Journal of Paleontology; Nature Communications; Nature Ecology and Evolution; Oxford University Press; Palaeontologia Electronica; Palaeontology; Palaeoworld; Palaeogeography, Palaeoclimatology, Palaeoecology; Palaios; PLOS ONE; Precambrian Research; Proceedings of the Royal Society B – Biological Sciences; Science Advances; Scientific Reports; Sedimentology; Springer; Terra Nova; Trends in Ecology and Evolution

Grant Reviewer:

American Philosophical Society; Natural Sciences and Engineering Research Council Canada; Palaeontological Association; Royal Society, Schmidt AI in Science Faculty Fellowship

OUTREACH

Public Talk: “Preserving Earth’s oldest complex life”	Warks. Geol. Cons. Group	2025
Sessions at Opportunity Oxford	Earth Sciences, Uni. of Oxford	2025
Summer Science Exhibition talk (Link) and activity	Royal Society	2025
Public Talk: “Geological time and how to make a fossil”	North Lincs. Mus./Royal Society	2025
STEM Research Outreach Talks	Mus. of Nat. His., Uni. of Oxford	2024–2025
“Breaking Ground” Exhibition	Mus. of Nat. His., Uni. of Oxford	2024–2025
Sessions at UNIQ Earth Sciences Summer School	Earth Sciences, Uni. of Oxford	2020–2025
Chair: Future of Palaeontology Panel Discussion	Mus. of Nat. His., Uni. of Oxford	2024
Ideas and Evidence Event for Schools	Mus. of Nat. His., Uni. of Oxford	2024
Public Talk: “Being a Royal Society mentee”	Royal Society Mentoring	2023, 2024
Public Talk: “Preserving the rise of complex life”	Cheltenham Min. and Geol. Soc.	2023
Science Advisor: PBS/NOVA/BBC Ancient Earth Frozen	PBS/NOVA/BBC	2023
“First Animals” Exhibition	Mus. of Nat. His., Uni. of Oxford	2019–2020
Public Talk: “Digging the dirt on the world’s oldest fossils”	Oxford Geology Group	2019
Chair: Oxford Palaeontology Symposium	Oxford Geology Group	2019

"Bacterial World" Exhibition	Mus. of Nat. His., Uni. of Oxford	2018–2019
Public Talk: "Digging the dirt on the world's oldest fossils"	Mus. of Nat. His., Uni. of Oxford	2018
Public Talk: "Digging the dirt on the world's oldest fossils"	British Science Festival	2018
Dinosaur Days Meet the Scientist	Yale Peabody Museum	2014,2016,2017
Gallery Talk: "The Peabody's Oldest Fossils"	Yale Peabody Museum	2017
Behind the Scenes Tours	Yale Peabody Museum	2016–2017
Duxbury Middle School Interview	Yale Peabody Museum	2016
EVOLUTIONS After School Program	Yale Peabody Museum	2016

AFFILIATIONS

Geological Society of America
 Geological Society of London (Fellow, FGS)
 Palaeontological Association
 Paleontological Society

RESEARCH PUBLICATIONS

*h-index 15, citations 830 (Google Scholar, 25/09/25), *Oxford student/post-doc contribution*

1. **Anderson, R.P.**, Fairchild, I.J., Tosca, N.J., Knoll, A.H., 2013. Microstructures in metasedimentary rocks from the Neoproterozoic Bonahaven Formation, Scotland: Microconcretions, impact spherules, or microfossils? *Precambrian Research* **233**, 59–72. ([Link](#))
2. **Anderson, R.P.**, McCoy, V.E., McNamara, M.E., Briggs, D.E.G., 2014. What big eyes you have: The ecological role of giant pterygotid eurypterids. *Biology Letters* **10**, 20140412. ([Link](#))
3. McCoy, V.E., Lamsdell, J.C., Poschmann, M., **Anderson, R.P.**, Briggs, D.E.G., 2015. All the better to see you with: Eyes and claws reveal the evolution of divergent ecological roles in giant pterygotid eurypterids. *Biology Letters* **11**, 20150564. ([Link](#))
4. McCoy, V.E., Saupe, E.E., Lamsdell, J.C., Tarhan, L.G., McMahon, S., Lidgard, S., Mayer, P., Whalen, C.D., Soriano, C., Finney, L., Vogt, S., Clark, E.G., **Anderson, R.P.**, Petermann, H., Locatelli, E.R., Briggs, D.E.G., 2016. The 'Tully Monster' is a vertebrate. *Nature* **532**, 496–499. ([Link](#))
5. Darroch, S.A.F., Locatelli, E.R., McCoy, V.E., Clark, E.G., **Anderson R.P.**, Tarhan, L.G., Hull, P., 2016. Taphonomic disparity in foraminifera as a paleo-indicator for seagrass. *Palaios* **31** (5), 242–258. ([Link](#))
6. **Anderson, R.P.**, Tarhan, L.G., Cummings, K.E., Planavsky, N.J., Bjørnerud, M., 2016. Macroscopic structures in the 1.1 Ga continental Copper Harbor Formation: Concretions or fossils? *Palaios* **31** (7), 327–338. ([Link](#))
7. McMahon, S., **Anderson, R.P.**, Saupe, E.E., Briggs, D.E.G., 2016. Experimental evidence that clay inhibits bacterial decomposers: Implications for preservation of organic fossils. *Geology* **44** (10), 867–870. ([Link](#))
8. **Anderson, R.P.**, McMahon, S., Bold, U., Macdonald, F.A., Briggs, D.E.G., 2017. Palaeobiology of the early Ediacaran Shuurgat Formation, Zavkhan Terrane, south-western Mongolia. *Journal of Systematic Palaeontology* **15** (11), 947–968. ([Link](#))
9. **Anderson, R.P.**, Macdonald, F.A., Jones, D.S., McMahon, S., Briggs, D.E.G., 2017. Doushantuo-type microfossils from latest Ediacaran phosphorites of northern Mongolia. *Geology* **45** (12), 1079–1082. ([Link](#))
10. **Anderson, R.P.**, Tosca, N.J., Gaines, R.R., Mongiardino Koch, N., Briggs, D.E.G., 2018. A mineralogical signature for Burgess Shale-type fossilization. *Geology* **46** (4), 347–350. ([Link](#))
11. Fairchild, I.J., Spencer, A.M., Ali, D.O., **Anderson, R.P.**, Anderton, R., Boomer, I., Dove, D., Evans, J. D., Hambrey, M.J., Howe, J., Sawaki Y., Shields, G.A., Skelton, A., Tucker, M.E., Wang, Z., Zhou, Y., 2018. Tonian–Cryogenian boundary sections of Argyll, Scotland. *Precambrian Research* **319**, 37–64. ([Link](#))
12. **Anderson, R.P.**, McMahon, S., Macdonald, F.A., Jones, D.S., Briggs, D.E.G., 2019. Palaeobiology of latest Ediacaran phosphorites from the upper Khesen Formation, Khuvs gul Group, northern Mongolia. *Journal of Systematic Palaeontology* **17** (6), 501–532. ([Link](#))

13. Wiemann, J., de Queiroz, K., Rowe, T.B., Planavsky, N.J., **Anderson, R.P.**, Gogarten, J.P., Turner, P.E., Gauthier, J.A., 2020. Pan-Biota in Phylonyms: A companion to the Phylocode, eds. De Queiroz, K., Cantino, P., Gauthier, J.A. CRC Press. ([Link](#))
14. Wiemann, J., de Queiroz, K., Rowe, T.B., Planavsky, N.J., **Anderson, R.P.**, Gogarten, J.P., Turner, P.E., Gauthier, J.A., 2020. Biota in Phylonyms: A companion to the Phylocode, eds. De Queiroz, K., Cantino, P., Gauthier, J.A. CRC Press. ([Link](#))
15. **Anderson, R.P.**, 2020. Intrinsic iron may have promoted ancient nervous tissue fossilization. *BioEssays* **42**, 2000070. (Invited article) ([Link](#))
16. **Anderson, R.P.**, Tosca, N.J., Cinque, G., Frogley, M.D., Lekkas, I., Akey, A., Hughes, G.M., Bergmann, K.D., Knoll, A.H., Briggs, D.E.G., 2020. Aluminosilicate haloes preserve complex life approximately 800 million years ago. *Interface Focus* **10**, 20200011. (Invited article) ([Link](#))
17. Cohen, P.A., Vizcaíno, M., **Anderson, R.P.**, 2020. Oldest fossil ciliates from the Cryogenian glacial interlude reinterpreted as possible red algal spores. *Palaeontology* **63** (6), 941–950. ([Link](#))
18. Wen, B., Evans, D.A.D., **Anderson, R.P.**, McCausland, P.J.A., 2020. Late Ediacaran paleogeography of Avalonia and the Cambrian assembly of West Gondwana. *Earth and Planetary Science Letters* **552**, 116591. ([Link](#))
19. **Anderson, R.P.**, Tosca, N.J., Saupe, E.E., Wade, J., Briggs, D.E.G., 2021. Early formation and taphonomic significance of kaolinite associated with Burgess Shale fossils. *Geology* **49** (4), 355–359. ([Link](#))
20. Gibson, T.M., Millikin, A.E.G., **Anderson, R.P.**, Myrow, P.M., Rooney, A.D., Strauss, J.V., 2021. Tonian deltaic and storm-influenced marine sedimentation on the edge of Laurentia: The Veteranen Group of northeastern Spitsbergen, Svalbard. *Sedimentary Geology* **426**, 106011. ([Link](#))
21. Jing, Y., Chen, Z.-Q., **Anderson, R.P.**, Wang, X., Zheng, Z., 2022. Microscopic and geochemical analyses of the Tonian Longfengshan biota from the Luotuling Formation (Hebei Province, North China) with taphonomic implications. *Precambrian Research* **382**, 106899. ([Link](#))
22. **Anderson, R.P.**, Woltz, C.R., Tosca, N.J., Porter, S.M., Briggs, D.E.G., 2023. Fossilisation processes and our reading of animal antiquity. *Trends in Ecology and Evolution* **38** (11), 1060–1071. ([Link](#))
23. Woltz, C.R., **Anderson, R.P.**, Tosca, N.J., Porter, S.M., 2023. The role of clay minerals in the preservation of Precambrian organic-walled microfossils. *Geobiology* **21** (6), 708–724. ([Link](#))
24. Etemad-Saeed, N., **Anderson, R.P.**, Tosca, N.J., Bergmann, K.D., Knoll, A.H., 2024. Stratigraphic occurrence and taphonomy of *Sabellidites* in Terreneuvian rocks of the Soltanieh Formation, Soltanieh Mountains, Northern Iran. *Palaeogeography, Palaeoclimatology, Palaeoecology* **639**, 112084. ([Link](#))
25. Morton-Hayward, A.L., **Anderson, R.P.**, Saupe, E.E., Larson, G., Cosmidis, J.G., 2024. Human brains preserve in diverse environments for at least 12,000 years. *Proceedings of the Royal Society B—Biological Sciences* **291**, 20232606. ([Link](#))
26. Lei, X., Cong, P., Zhang, S., Wei, F., **Anderson, R.P.**, 2024. Unveiling an ignored taphonomic window in the early Cambrian Chengjiang Biota. *Geology*. ([Link](#))
27. **Anderson, R.P.**, *Mughal, S., *Wedlake, G.O., 2024. Proterozoic microfossils continue to provide new insights into the rise of complex eukaryotic life. *Royal Society Open Science* **11** (8), 240154. (Invited article) ([Link](#))
28. *Mughal, S., Millikin, A.E.G., Zhang, T., Gibson, T.M., Rooney, A.D., Tosca, N.J., Bergmann, K.D., Strauss, J.V., **Anderson, R.P.**, 2025. The Svanbergfjellet Formation: Eukaryotic life in a Tonian sea. *Journal of the Geological Society of London* **182** (3), jgs2024-083. (Lagerstätten Series Article) ([Link](#))
29. Millikin, A.E.G., Gibson, T.M., Strauss, J.V., Bergmann, K.D., Tosca, N.J., **Anderson, R.P.**, Halverson, G.P., Zhang, T., Rooney, A.D., 2025. Geochemistry and mineralogy of Neoproterozoic strata in northeastern Svalbard: re-evaluating the prevalence of basalt weathering during the early Neoproterozoic. *Geological Society of America Bulletin*. ([Link](#))
30. Tingle, K.E., **Anderson, R.P.**, Kelley, N.P., Darroch, S.A.F., 2025. Sustained shift in the morphology of organic-walled microfossils over the Ediacaran–Cambrian transition. *Royal Society Open Science* **12** (6), 241966. ([Link](#))

31. Li, G., Wei, F., Wen, W., Wang, X., Lei, X., **Anderson, R.P.**, Zhao, Y., Dunn, F.S., Parry, L.A., Cong, P., in review. The dawn of the Phanerozoic: A transitional fauna from the late Ediacaran of Southwest China. *Science*.
32. Farrell, U., ... **Anderson, R.P.**, ... Sperling, E.A., in review. The Sedimentary Geochemistry and Palaeoenvironments Project phase 2 data release: An open data resource for the study of Earth's environmental history. *Chemical Geology*.
33. *Lole Durbin, O. Anttila, E.S.C., Briggs, D.E.G., Macdonald, F.A., **Anderson, R.P.**, in review. Maximum age constraints on animal evolution: Insights from the Kheseen Formation, Mongolia. *Geobiology*.

OTHER PUBLICATIONS

1. **Anderson, R.P.**, 2013. Britain's oldest eukaryotes? *Geoscientist* **23** (6), 10-15. (*Invited article*) ([Link](#))
2. **Anderson, R.P.**, 2023. Scientists can't agree on when the first animals evolved – our research hopes to end the debate. *The Conversation* ([Link](#)).

RESEARCH PRESENTATIONS

*Oxford student/post-doc contribution

Invited Seminars:

1. **Anderson, R.P.**, 2015. The rise of eukaryotes: Environmental controls during the Neoproterozoic-Cambrian transition. University of Bristol Palaeobiology Seminar, Bristol, UK.
2. **Anderson, R.P.**, 2017. Fossilisation of the earliest eukaryotes. Diamond Light Source Seminar, Didcot, UK.
3. **Anderson, R.P.**, 2018. The rise of eukaryotes: Environmental controls on the early fossil record. Labatoire de Géologie de Lyon Seminar, Lyon, France.
4. **Anderson, R.P.**, 2018. The rise of eukaryotes: Environmental controls on the early fossil record. University of Cambridge Palaeobiology Seminar, Cambridge, UK.
5. **Anderson, R.P.**, 2018. A new Doushantuo-style fossil Lagerstätte from latest Ediacaran phosphorites of northern Mongolia. The Precambrian–Cambrian Phosphogenic Event Working Group Meeting, University of Science and Technology of China, Hefei, China.
6. **Anderson, R.P.**, 2018. The rise of eukaryotes: Environmental controls on the early fossil record. University of Leicester Department of Geology Seminar, Leicester, UK.
7. **Anderson, R.P.**, 2019. Clay minerals and the fossilisation of early complex life. The origin and rise of complex life: Integrating models, geochemical and palaeontological data, Royal Society Discussion Meeting, London, UK.
8. **Anderson, R.P.**, 2021. The importance of fossilisation to our reading of animal antiquity. KU Leuven Department of Earth and Environmental Sciences Seminar, Leuven, Belgium.
9. **Anderson, R.P.**, 2022. Darwin's Dilemma: The importance of fossilization to our reading of animal antiquity. Texas A&M Department of Geology and Geophysics Seminar, College Station, USA.
10. **Anderson, R.P.**, 2022. Darwin's Dilemma: The importance of fossilization to our reading of animal antiquity. UC Riverside Virtual Seminar in Precambrian Geology, Riverside, USA, online. ([Video](#))
11. **Anderson, R.P.**, 2022. The rise of complex life: Environmental controls on the early fossil record. Department of Earth Sciences and Department of Genetics, Evolution, and Environment Seminar, University College London, London, UK.
12. **Anderson, R.P.**, 2023. The rise of complex life: Environmental controls on the early fossil record. Department of Earth Sciences, University of Oxford, Oxford, UK.
13. **Anderson, R.P.**, 2023. The rise of complex life: Environmental controls on the early fossil record. School of Earth and the Environment, University of Leeds, Leeds, UK.
14. **Anderson, R.P.**, 2023. Preserving the rise of complex life: Environmental controls on the early fossil record. Department of Earth Sciences, University of Cambridge, Cambridge, UK.

15. **Anderson, R.P.**, 2023. Preserving the rise of complex life: Environmental controls on the early fossil record. Department of Earth and Environmental Sciences, Vanderbilt University, Nashville, USA.
16. **Anderson, R.P.**, 2023. Preserving the rise of complex life: Environmental controls on the early fossil record. Department of Earth Science, University of California Santa Barbara, Santa Barbara, USA.
17. **Anderson, R.P.**, 2023. Preserving the rise of complex life: Environmental controls on the early fossil record. Department of Environment and Geography, University of York, York, UK.
18. **Anderson, R.P.**, 2024. Digging the dirt: Preserving Earth's first complex life. Breakthrough Discuss 2024, Oxford, UK. ([Video](#))
19. **Anderson, R.P.**, 2025. Digging the dirt: Preserving Earth's first multicellular eukaryotes. American Association for the Advancement of Science Annual Meeting (Scientific Breakthroughs session), Boston, USA.

Conference Oral Presentations:

1. Corsetti, F.A., **Anderson, R.P.**, Bird, J.T., Meneske, M., Trower, E.J., Petryshyn, V.A., Tripathi, A., Stamps, B.W., Stevenson, B.S., Spear, J.S., 2013. Ooid formation in the Great Salt Lake, Utah: Insights from clumped isotope paleothermometry and molecular biology. Geological Society of America Annual Meeting, Denver, USA. (*Presentation given by F.A. Corsetti*)
2. **Anderson, R.P.**, McCoy, V.E., McNamara, M.E., Briggs, D.E.G., 2013. The mode of life of pterygotid eurypterids: Insights from their visual system. Palaeontological Association Annual Meeting, Zürich, Switzerland. (*Honourable mention for President's Prize*)
3. Locatelli, E.R., Darroch, S.A.F., McCoy, V.E., **Anderson, R.P.**, Clark, E.G., Hull, P., 2014. Experimental taphonomy of foraminifera. North American Paleontological Convention, Gainesville, USA. (*Presentation given by E.R. Locatelli*)
4. McCoy, V.E., Lamsdell, J.C., Poschmann, M., **Anderson, R.P.**, Briggs, D.E.G., 2015. Eyes and claws reveal the evolution of divergent ecological roles in giant pterygotid eurypterids. Geological Society of America Annual Meeting, Baltimore, USA. (*Presentation given by V.E. McCoy*)
5. McMahon, S., **Anderson, R.P.**, Briggs, D.E.G., 2015. Clay-microbe interactions and implications for exceptional preservation. Palaeontological Association Annual Meeting, Cardiff, UK. (*Presentation given by S. McMahon*)
6. **Anderson, R.P.**, Tosca, N.J., Gaines, R.R., Briggs, D.E.G., 2016. Sediment composition of Burgess Shale-type Lagerstätten: Implications for soft-tissue preservation. Geological Society of America Annual Meeting, Denver, USA. (*Won GSA Geobiology and Geomicrobiology Student Award*)
7. **Anderson, R.P.**, Tosca, N.J., Kearns, S.L., Briggs, D.E.G., 2016. Mineralogical insights into the tissues of Burgess Shale animals. Palaeontological Association Annual Meeting, Lyon, France. (*Honourable mention for President's Prize*)
8. **Anderson, R.P.**, Macdonald, F.A., Jones, D.S., McMahon, S., Briggs, D.E.G., 2017. A latest Ediacaran Doushantuo-type Lagerstätte from northern Mongolian phosphorites. Geological Society of America Annual Meeting, Seattle, USA.
9. **Anderson, R.P.**, Tosca, N.J., Gaines, R.R., Mongiardino Koch, N., Briggs, D.E.G., 2017. A mineralogical signature for Burgess Shale-type preservation. Palaeontological Association Annual Meeting, London, UK. (*Won President's Prize*)
10. **Anderson, R.P.**, Tosca, N.J., Kearns, S.L., Briggs, D.E.G., 2018. Taphonomic significance of the mineralogy of Burgess Shale fossils. 4th International Palaeontological Congress, Paris, France.
11. **Anderson, R.P.**, 2018. Clay mineral controls on the early fossil record. Emergence of Complex Life Meeting, All Souls College, Oxford, UK.
12. **Anderson, R.P.**, Tosca, N.J., Cinque, G., Frogley, M., Lekkas, I., Akey, A., Hughes, G.M., Butterfield, N.J., Knoll, A.H., Briggs, D.E.G., 2019. Aluminosilicate haloes preserve complex life over 800 million years ago. Palaeontological Association Annual Meeting, Valencia, Spain.
13. **Anderson, R.P.**, Tosca, N.J., Cinque, G., Frogley, M., Lekkas, I., Akey, A., Hughes, G.M., Bergmann, K.D., Knoll, A.H., Briggs, D.E.G., 2020. Aluminosilicate haloes preserve complex life over 800 million years ago. Circum-Arctic Structural Events Meeting, Hannover, Germany.

14. **Anderson, R.P.**, Tosca, N.J., Saupe, E.E., Wade, J., Briggs, D.E.G., 2020. Resolving a taphonomic role for kaolinite-organic interactions in the Burgess Shale. Geological Society of America Annual Meeting, online.
15. Woltz, C.R., **Anderson, R.P.**, Porter, S.M, Tosca, N.J., 2020. The role of clay minerals in the preservation of Precambrian organic-walled microfossils. Geological Society of America Annual Meeting, Montréal, Canada, online. (*Presentation given by C.R. Woltz*)
16. **Anderson, R.P.**, Tosca, N.J., Saupe, E.E., Wade, J., Briggs, D.E.G., 2020. Confirming the importance of kaolinite-organic interactions in Burgess Shale-type fossilisation. TaphCon, online.
17. Millikin, A.E.G., Strauss, J.V., Halverson, G.P., Bergmann, K.D., Tosca, N.J., Gibson, T.M., **Anderson, R.P.**, Rooney, A.D., 2021. New Re-Os ages from the Neoproterozoic Hecla Hoek succession, Svalbard, Norway. Goldschmidt Meeting, online. (*Presentation given by A.E.G. Millikin*)
18. **Anderson, R.P.**, Woltz, C.R., Tosca, N.J., Porter, S.M., Briggs, D.E.G., 2021. Darwin's Dilemma: Taphonomic studies help constrain the origin of animals. Geological Society of America Annual Meeting, Portland, USA, online.
19. **Anderson, R.P.**, Woltz, C.R., Tosca, N.J., Porter, S.M., Briggs, D.E.G., 2021. Darwin's Dilemma: Constraints on the origin of animals from taphonomic studies. Palaeontological Association Annual Meeting, Manchester, UK, online.
20. Morton-Hayward, A.L., **Anderson, R.P.**, Cosmidis, J.C., 2022. Nerves of steel: The role of iron in the preservation of the central nervous system. Progressive Palaeontology, Lincoln, UK. (*Presentation given by A.L. Morton-Hayward, Won best flash talk*)
21. **Anderson, R.P.**, *Wedlake, G.O., Gibson, T.M., Millikin, A.E.G., Piepjohn, K., Tosca, N.J., Rooney, A.D., Strauss, J.V., 2022. New multicellular eukaryotes from the ca. 950–820-million-year-old Veteranen Group of Svalbard. Geological Society of America Annual Meeting, Denver, USA.
22. Woltz, C.R., **Anderson, R.P.**, Tosca, N.J., Porter, S.M., 2023. Environmental controls on the preservation of Precambrian organic-walled microfossils. Palaeo Down Under 3, Perth, Australia. (*Presentation given by C.R. Woltz*)
23. **Anderson, R.P.**, *Wedlake, G.O., Parry, L.A., Gibson, T.M., Millikin, A.E.G., Piepjohn, K., Tosca, N.J., Rooney, A.D., Strauss, J.V., 2023. New multicellular eukaryotes from the ca. 930–820-million-year-old Veteranen Group of Svalbard. Palaeontological Association Annual Meeting, Cambridge, UK.
24. **Anderson, R.P.**, 2024. Preserving the rise of eukaryotes. Royal Society Research Fellows Network Meeting, Sheffield, UK.
25. *Jackson, L., Dunn, F.S., Rahman, I.A., **Anderson, R.P.**, 2024. Testing the evidence for gill slits in early echinoderms. Progressive Palaeontology, Bristol, UK. (*Presentation given by L. Jackson*)
26. **Anderson, R.P.**, 2024. Targeting exceptional preservation of crown eukaryotes in Tonian strata. ECORD MagellanPlus Workshop: Drilling the Tonian-Cryogenian boundary of the Inner Hebrides, Scotland, London, UK.
27. Tingle, K.E., **Anderson, R.P.**, Darroch, S.A.F., Kelly, N.P., 2024. Sustained shift in acritarch morphology over the Ediacaran-Cambrian transition. Geological Society of American Annual Meeting, Anaheim, USA. (*Presentation given by K.E. Tingle*)
28. *Lole Durbin, O., Anttila, E.S.C., Briggs, D.E.G., Macdonald, F.A., **Anderson, R.P.**, 2025. Early Cambrian Doushantuo-type microfossils from Mongolia: Implications for calibrating animal molecular clocks. Geobiology Society Conference, Banff, Canada. (*Presentation given by O. Lole Durbin*)
29. Mughal, S., Jouault, C., Cribb, A.T., Stockey, R.G., Saupe, E.E., **Anderson, R.P.**, Konhauser, K.O., 2025. The Precambrian microfossil record: A lens for understanding the ancient biosphere through time and space. Geobiology Society Conference, Banff, Canada. (*Presentation given by S. Mughal*)
30. Tingle, K.E., **Anderson, R.P.**, Schiffbauer, J.D., Czaja, A.D., Belanger, B.K., Manning-Berg, A., Oster, J.L., Darroch, S.A.F., 2025. Buried alive: Extracellular polymeric substances promote clay templating of live eukaryotic algae. Geobiology Society Conference, Banff, Canada. (*Presentation given by K.E. Tingle*)
31. *Wedlake, G.O., Cohen, P.A., Nadalin, C.C., Mehra, A.K., Strauss, J.V., **Anderson, R.P.**, 2025. New microfossil eukaryotes from the Tonian Little Dal Group, northwestern Canada. Geobiology Society Conference, Banff, Canada. (*Presentation given by G.O. Wedlake*)

32. *Jackson, L., Rahman, I.A., **Anderson, R.P.**, Dunn, F.S., 2025. Preserved internal respiratory system of an Ordovician hemicosmitoid rhombiferan provides new insight into the physiology of extinct echinoderms. *Progressive Palaeontology*, Edinburgh, UK. (*Presentation given by L. Jackson*)
33. Mughal, S., Jouault, C., Cribb, A.T., Stockey, R.G., Saupe, E.E., **Anderson, R.P.**, Konhauser, K.O., 2025. The Proterozoic biosphere through time and space. Geological Society of America Annual Meeting, San Antonio, USA. (*Presentation submitted to be given October 2025 by S. Mughal*)
34. *Sriwastava, P., Bolla, J.R., Khare, S.D., Cosmidis, J.G., Tosca, N.J., **Anderson, R.P.**, 2025. Controlling mineral nucleation and growth by de novo protein design: Implication for biomineralization, fossil preservation, and future material synthesis. Geomicrobiology Network Meeting, Mineralogical Society of the UK and Ireland, Natural History Museum, London, UK. (*Presentation submitted to be given October 2025 by P. Sriwastava*)
35. Millikin, A.E.G., Gibson, T.M., Strauss, J.V., Bergmann, K.D., Tosca, N.J., **Anderson, R.P.**, Halverson, G.P., Zhang, T. Rooney, A.D., 2025. Geochemistry and mineralogy of Neoproterozoic strata in northeastern Svalbard: Re-evaluating the prevalence of basalt weathering during the early Neoproterozoic. American Geophysical Union Annual Meeting, New Orleans, USA. (*Presentation submitted to be given December 2025 by A.E.G. Millikin*)
36. *Sriwastava, P., Tosca, N.J., Cosmidis, J.G., **Anderson, R.P.**, 2025 Post-mortem biochemical evolution may control kaolinite formation: Implications for exceptional preservation. Palaeontological Association Annual Meeting, Portsmouth, UK. (*Presentation submitted to be given December 2025 by P. Sriwastava*)

Conference Poster Presentations:

1. **Anderson, R.P.**, Fairchild, I.J., Tosca, N.J., Knoll, A.H., 2012. Probable testate microfossils in the Neoproterozoic Bonahaven Formation, Scotland. The Neoproterozoic Era—Evolution, Glaciation, Oxygenation, Fermor Meeting of the Geological Society of London, London, UK.
2. **Anderson, R.P.**, Fairchild, I.J., Tosca, N.J., Knoll, A.H., 2012. Probable testate microfossils in the Neoproterozoic Bonahaven Formation, Scotland. Palaeontological Association Annual Meeting, Dublin, Ireland.
3. **Anderson, R.P.**, McCoy, V.E., McNamara, M.E., Briggs, D.E.G., 2013. The visual system of pterygotid eurypterids: Implications for their mode of life. Geological Society of America Annual Meeting, Denver, USA.
4. Bird, J.T., Trower, E.J., **Anderson, R.P.**, Meneske, M., Berelson, W., Sessions, A.L., Osburn, M., Spear, J.S., Stamps, B.W., Stevenson, B.S., Shapiro, R.S., Torres, M., Corsetti, F.A., 2013. Evaluating the biological influences on ooid formation in the Great Salt Lake, Utah. American Geophysical Union Fall Meeting, San Francisco, USA. (*Presentation given by J.T. Bird*)
5. **Anderson, R.P.**, Bird, J.T., Meneske, M., Trower, E.J., Berelson, W., Petryshyn, V.A., Shapiro, R.S., Sessions, A.L., Tripathi, A., Corsetti, F.A., 2013. Ooid formation in the Great Salt Lake, Utah: Insights from clumped isotope paleothermometry. American Geophysical Union Fall Meeting, San Francisco, USA.
6. **Anderson, R.P.**, Macdonald, F.A., Tosca, N.J., Bosak, T., Bold, U., Briggs, D.E.G., 2014. Taphonomy of eukaryotic microfossils between Cryogenian ice ages explored in the Zavkhan Terrane, southwestern Mongolia. Geological Society of America Annual Meeting, Vancouver, Canada.
7. **Anderson, R.P.**, Wen, B., McCausland, P.J.A., Evans, D.A.D., 2014. Quantifying late Ediacaran tectonics and plate motions of the Avalonia Terrane: Regional and global implications. Geological Society of America Annual Meeting ExxonMobil Student Geoscience Grant Special Poster Session, Vancouver, Canada.
8. **Anderson, R.P.**, Macdonald, F.A., Tosca, N.J., Bosak, T., Bold, U., Briggs, D.E.G., 2014. Apparent diversity drop after the Cryogenian (Sturtian) ice age in southwestern Mongolia—a product of extinction or taphonomy? Palaeontological Association Annual Meeting, Leeds, UK.
9. **Anderson, R.P.**, Macdonald, F.A., Tosca, N.J., Bosak, T., Bold, U., Briggs, D.E.G., 2015. The role that clay minerals play in organic fossil preservation: Insights from the Zavkhan Terrane, southwestern Mongolia. Mud, glorious mud, and why it is important for the fossil record, Lyell Meeting of the Geological Society of London, London, UK.
10. **Anderson, R.P.**, Evans, D.A.D., McCausland, P.J.A., Wen, B., 2015. Uncovering late Ediacaran kinematics of the Avalonia Terrane using paleomagnetism. Joint Assembly of the American Geophysical Union, Montréal, Canada. (*Honourable mention for GAC Remick Award*)

11. **Anderson, R.P.**, McMahon, S., Bold, U., Macdonald, F.A., Briggs, D.E.G., 2015. Microfossils from cherts of the Ediacaran Shuurgat Formation, Zavkhan Terrane, southwestern Mongolia. Geological Society of America Annual Meeting, Baltimore, USA.
12. **Anderson, R.P.**, McMahon, S., Bold, U., Macdonald, F.A., Briggs, D.E.G., 2015. Microfossil communities preserved in Ediacaran cherts of the Shuurgat Formation, Zavkhan Terrane, southwestern Mongolia. Palaeontological Association Annual Meeting, Cardiff, UK.
13. **Anderson, R.P.**, McMahon, S., Bold, U., Macdonald, F.A., Briggs, D.E.G., 2016. A new early Ediacaran microfossil Lagerstätte: The Shuurgat Formation, Zavkhan Terrane, southwestern Mongolia. Northeastern Geobiology Symposium, Harvard University, Cambridge, USA.
14. Vizcaíno, M., **Anderson, R.P.**, Macdonald, F.A., Cohen, P., 2016. Morphology and stratigraphic distribution of putative tintinnid fossils from the Tsagaan Olom Group, Mongolia. Geological Society of America Annual Meeting, Denver, USA. (*Presentation given by M. Vizcaíno*)
15. **Anderson, R.P.**, Tosca, N.J., Mongiardino Koch, N., Briggs, D.E.G., 2017. A mineralogical fingerprint of Burgess Shale-type fossilization. Northeastern Geobiology Symposium, University of Connecticut, Storrs, USA.
16. Vizcaíno, M., Cohen, P., **Anderson, R.P.**, 2017. Reinterpretation of putative tintinnid lorica fossils from the Neoproterozoic Tsagaan Olom Group, Mongolia. Northeastern Geobiology Symposium, University of Connecticut, Storrs, USA. (*Presentation given by M. Vizcaíno*)
17. **Anderson, R.P.**, Tosca, N.J., Kearns, S.L., Briggs, D.E.G., 2017. Revealing the mineralogy of Burgess Shale animals. Geobiology Society Conference, Banff, Canada.
18. **Anderson, R.P.**, Macdonald, F.A., Jones, D.S., McMahon, S., Briggs, D.E.G., 2017. Diverse Ediacaran Doushantuo-style microfossils in northern Mongolian phosphorites. International Symposium on the Ediacaran–Cambrian Transition, St John's, Canada.
19. **Anderson, R.P.**, Macdonald, F.A., Jones, D.S., McMahon, S., Briggs, D.E.G. 2018. The latest Ediacaran Khesen Formation: A new Doushantuo-style fossil Lagerstätte. Palaeontological Association Annual Meeting, Bristol, UK.
20. Gibson, T.M., Strauss, J.V., **Anderson, R.P.**, Millikin, A.E.G., Rooney, A.D., Legge, E., Mackey, T.J., Bergmann, K.D., Summons, R.E., 2019. Tonian Geobiology of Svalbard. Northeastern Geobiology Symposium, Amherst College, Amherst, USA. (*Presentation given by T.M. Gibson*)
21. Millikin, A.E.G., Rooney, A.D., Gibson, T.M., **Anderson, R.P.**, Bergmann, K., Strauss, J.V., 2019. Geochronology, geochemistry, and stratigraphy of the Neoproterozoic Hecla Hoek succession, Svalbard, Norway. Geobiology Society Conference, Banff, Canada. (*Presentation given by A.E.G. Millikin*)
22. Millikin, A.E.G., Gibson, T.M., **Anderson, R.P.**, Strauss, J.V., Rooney, A.D., 2019. Geochronology, geochemistry, and stratigraphy of the Neoproterozoic Hecla Hoek succession, Svalbard, Norway. Geological Society of America Annual Meeting, Phoenix, USA. (*Presentation given by A.E.G. Millikin*)
23. Gibson, T.M., Millikin, A.E.G., **Anderson, R.P.**, Myrow, P.M., Rooney, A.D., Strauss, J.V., 2020. Sedimentology, stratigraphy and age of the Tonian Veteranen Group, northeastern Spitsbergen, Svalbard. Geological Society of America Annual Meeting, online. (*Presentation given by T.M. Gibson*)
24. Gibson, T.M., Millikin, A.E.G., **Anderson, R.P.**, Piepjohn, K., McClelland, W.C., Crowley, J.L., Rooney, A.D., Strauss, J.V., 2021. Synthesis of the lower Hecla Hoek succession across eastern Svalbard: Early Tonian magmatism and basin formation along the northeastern margin of Laurentia. Geological Society of America Annual Meeting, Portland, USA. (*Presentation given by T.M. Gibson*)
25. *Wedlake, G.O., *Mughal, S., Gibson, T.M., Millikin, A.E.G., Strauss, J.V., Rooney, A.D., Piepjohn, K., Tosca, N.J., **Anderson, R.P.**, 2021. Microfossils from the ~850-million-year-old Veteranen Group of Svalbard: Insights into the nascent eukaryotic world. Palaeontological Association Annual Meeting, Manchester, UK, online. (*Presentation given by G.O. Wedlake*)
26. *Mughal, S., *Wedlake, G.O., Gibson, T.M., Millikin, A.E.G., Strauss, J.V., Rooney, A.D., Tosca, N.J., Bergmann, K.D., **Anderson, R.P.**, 2021. Re-exploring the exceptionally preserved fossils of the Tonian Svanbergfjellet Formation of Svalbard to understand the rise of eukaryotes. Palaeontological Association Annual Meeting, Manchester, UK, online. (*Presentation given by S. Mughal*)

27. Barnes, N.L., Cunningham, J.A., Donoghue, P.C.J, **Anderson, R.P.**, Briggs, D.E.G., 2022. The affinity of embryo-like fossils: New evidence from Mongolia. *Progressive Palaeontology*, Lincoln, UK. *(Presentation given by N.L. Barnes)*
28. Barnes, N.L., Cunningham, J.A., Donoghue, P.C.J, **Anderson, R.P.**, Briggs, D.E.G., 2022. The affinity of embryo-like fossils: New evidence from Mongolia. *Palaeontological Association Annual Meeting*, Cork, Ireland. *(Presentation given by N.L. Barnes)*
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