

DR ADAM D. WOODHOUSE

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EDUCATION AND WORK

- **UTIG Distinguished Postdoctoral Fellow**, *University of Texas Institute for Geophysics, J.J. Pickle Research Campus*. Sep 2021 - Present
- **PhD Micropalaeontology**, *School of Earth and Environment, University of Leeds*. Thesis title: *Death in the Oceans: extinction risk in the marine realm*. Supervisors – Dr Tracy Aze, Dr Alex Dunhill & Prof Paul Wignall. Oct 2016 – Aug 2021.
- **Research Assistant**, *School of Earth and Environment, University of Leeds*. UK-IODP Post cruise research grant – *Hikurangi Trough late Pleistocene palaeoceanography, biostratigraphy, and Cretaceous Ocean Anoxia Events (OAEs)*. Supervisor – Dr Tracy Aze. May-Nov 2018
- **Foraminiferal biostratigrapher**, *International Ocean Discovery Program, Expedition 375: Hikurangi Subduction Margin*. Co-chiefs – Dr Laura Wallace & Prof Demian Saffer. Mar-May 2018
- **MSc Applied and Petroleum Micropalaeontology (Distinction)**, *School of Geography, Earth and Environmental Sciences, University of Birmingham*. Thesis title: *Biostratigraphy and evolutionary response of tropical planktonic foraminifera to the Eocene-Oligocene transition (EOT) within the Foz do Amazonas Basin, western equatorial Atlantic margin*. Supervisors – Dr Kirsty Edgar. Sep 2015 – Sep 2016
- **BSc Palaeontology (First Class with Honours)**, *School of Earth and Environmental Sciences, University of Portsmouth*, Supervisor – Prof Andy Gale. Sep 2012 – Jul 2015

AWARDS AND GRANTS

- 2nd- place: The Micropalaeontological Society AGM ECR Oral Presentation Award: - 2021
- University of Texas Institute for Geophysics Postdoctoral Fellows Program – Deciphering marine speciation in high-CO₂ worlds - \$127,000 - 2021
- Marsden Fund (Associate Investigator) – Does climate influence the frequency of volcanic activity and earthquakes? - 2020
- Yorkshire Geological Society Fearnside's Award - £500 - 2019
- The Challenger Society Travel Award - £500 - 2019
- Runner Up: UK-IODP MagellanPlus ECR Workshop Poster Prize - 2018
- Runner Up: Crossing the Palaeontological-Ecological Gap Poster Prize - 2018
- Progressive Palaeontology Travel Grant - £63 - 2018
- UK-IODP Post cruise research grant – Hikurangi Trough late Pleistocene palaeoceanography, biostratigraphy, and Cretaceous Ocean Anoxia Events (OAEs) - £29582 - 2018
- Joseph A. Cushman Award for Student Travel - \$158 - 2018
- The Micropalaeontological Society Grant-in-aid - £460 - 2018
- International Ocean Discovery Program Grant-in-aid - £135 - 2018
- Winner: The Micropalaeontological Society Image Competition - €200 - 2017
- TMS Student Travel Grant - £100 - 2017
- The Micropalaeontological Society Urbino Scholarship - £500 - 2017
- TMS Student Travel Grant - £100 - 2016
- NERC Doctoral Training Partnership Grant – 42 months “*Death in the oceans: extinction risk in the marine realm*” – 2016

EXPERIENCE

SHIPBOARD EXPERIENCE

- IODP Expedition 375: Hikurangi Subduction Margin – Foraminiferal biostratigrapher

EXPERIENCE

- Programming - R programming language, statistical methods
- Data analysis – extraction and manipulation of large, global-scale datasets
- Geochemistry - Elementar IsoPrime Dual-Inlet Isotope Ratio Mass Spectrometer
- Taxonomy - Cenozoic and Late Cretaceous planktonic and benthic foraminiferal taxonomy
- Morphometry - Image Pro Premier software
- Sedimentology – turbidites, active margins, deep ocean carbonates
- Marine coring – sampling, analysis, processing, core description
- XRF scanning – Avaatech XRF Core Scanner at the IODP Gulf Coast Repository, TX, USA
- CoreIDRAW – professional image creation

TRAINING/WORKSHOPS

- UK-IODP MagellanPlus ECR Workshop, Southampton, UK (Sep 24-26, 2018)
- Operation Earth: Scientist Training Academy, NHM, UK (Feb 6, 2018)
- Introduction to Practical Experiment Geochemistry, University of Leeds, UK (Jan 31-Feb 1, 2018)
- Introduction to Palaeoclimate Modelling for Palaeodata Specialists, University of Reading, UK (Jan 22-27, 2018)
- Urbino Summer School on Paleoclimatology, Urbino, Italy (July 12-28, 2017)
- Urbino International School on Foraminifera, Urbino, Italy (Jun 12-30, 2017)
- R4All – Getting started with R, University of Lancaster, UK (Apr 2017)
- Introduction to Ecological Niche Modelling, Barcelona, Spain (Mar 27-31, 2017)
- ECORD Training Course – The Virtual Drillship Experience, Universität Bremen, Germany (Mar 5-10, 2017)
- Taxonomy and Biostratigraphy of Cenozoic Planktonic Foraminifera, NHM, UK (Feb 13-17, 2017)
- NERC Software Carpentry NOVICE, University of Bristol, UK (Jan 18-20, 2017)
- Tree of Life Workshop, University of York, UK (Dec 19-20, 2016)

TEACHING RESPONSIBILITIES

CO-SUPERVISION

- Jake Herman (BSc Environmental Science) Dissertation – *Latitudinal extirpation precedes extinction in Cenozoic planktonic foraminifera*
- Megan Murphy (BSc Environmental Science) Dissertation – *Tectonic tracking of the Hikurangi Plateau with planktonic foraminifera*
- Sophie Jackson (BSc Environmental Science) Dissertation – *Morphometric change in *Dentoglobigerina altispira* prior to extinction*
- Bridget Warren (BSc Environmental Science) Dissertation – *Incorporation of sulphate in foraminiferal calcite and its use as an ocean tracer*

TEACHING

- Level 4: Exploration Geophysics and Geology Field Trip – Dr Phillip Murphy
- Level 2: Sedimentology – Dr Nigel Mountney
- Level 3: Applied Micropalaeontology – Dr Tracy Aze
- Level 2: Palaeoecology & Evolution – Prof Paul Wignall
- Level 1: Geology 1- Dr Crispin Little
- Level 1: Ice age environments and the Quaternary evolution of the British Isles- Dr Phillip Murphy
- Level 1: Introduction to chemistry – Dr Robert Chapman

CONFERENCE ATTENDANCE

2021

- The Micropalaeontological Society Annual General Meeting, Online, (Nov 18-19)
- The Geological Society of America Annual Meeting, Portland, OR, USA (Oct 10-13)

2020

- American Geophysical Union 2020 Fall Meeting, Online (Dec 1-17) – **Invited Presenter**
- The Micropalaeontological Society Annual General Meeting, Online (Nov 11-13)
- UK-IODP Annual Meeting 2020 (Aug 27-28)
- Progressive Palaeontology 2020 (Jun 11-13)
- IODP Expedition 372/375 Post-cruise meeting, Wellington, New Zealand (Mar 16-17)

2019

- Palaeontological Association Annual Meeting, Valencia, Spain (Dec 18-20)
- The Micropalaeontological Society Annual General Meeting, BGS, UK (Nov 13-14)
- Progressive Palaeontology 2019, Birmingham, UK (Jun 6-8)
- PROCEED – Expanding Frontiers of Scientific Ocean Drilling, Vienna, Austria (Apr 6-7)

2018

- The Micropalaeontological Society Annual General Meeting, Leeds, UK (Nov 14-15)
- The Geological Society of America Annual Meeting, Indianapolis, IN, USA (Nov 4-7)
- UK-IODP 50 Years of Scientific Ocean Drilling, London, UK (Sep 27-28)
- Crossing the Palaeontological-Ecological Gap, Leeds, UK (Aug 30-31)
- FORAMS 2018, Edinburgh, UK (Jun 17-22)
- Progressive Palaeontology 2018, Manchester, UK (Jun 7-9)

2017

- The Micropalaeontological Society Annual General Meeting, London, UK (Nov 15-16)
- Cioppino 2017 (USSP), Urbino, Italy (July 24)
- Progressive Palaeontology 2017, Leicester, UK (Jun 1-3)

2016

- The Micropalaeontological Society Annual General Meeting, Lille, France (Nov 17-18)

2015

- The Micropalaeontological Society Annual General Meeting, Liverpool, UK (Nov 16-17)

RESEARCH

PUBLICATIONS

- **Woodhouse, A.D.**, Jackson, S.L., Jamieson, R.A., Newton, R.J., Sexton, P.F., and Aze, T. Adaptive ecological niche migration does not negate extinction susceptibility, *Scientific Reports*, 11, 15411. DOI: 10.1038/s41598-021-94140-5
- **Fenton, I.F., & Woodhouse, A.D***, Aze, T., Lazarus, D., Renaudie, J., Young, J., Dunhill, A., and Saupe, E.E. Triton: a new database of Cenozoic Planktonic Foraminifera, *Scientific Data*, 8, 160. DOI: 10.1038/s41597-021-00942-7 ***co-first authorship**
- P.M. Barnes, D.M. Saffer, L.M. Wallace and the **IODP Expedition 372/375 Scientists**. (2020). Slow slip source characterized by lithological and geometric heterogeneity. *Science Advances*, 6. DOI: 10.1126/sciadv.aay3314
- Gray, M., Bell, R.E., Morgan, J.V., Henrys, S., Barker, D.H.N., and the **IODP Expedition 372/375 Scientists**. (2019). Imaging the shallow subsurface structure of the North Hikurangi Subduction Zone, New Zealand, using 2-D full-waveform inversion. *Journal of Geophysical Research: Solid Earth*, 124(8):9049–9074.
- Å. Fagereng, H.M. Savage, J.K. Morgan, M. Wang, F. Meneghini, P.M. Barnes, R. Bell, H. Kitajima, D.D. McNamara, D.M. Saffer, L.M. Wallace, K. Petronotis, L. LeVay, and the **IODP Expedition 372/375 Scientists**. (2019). Mixed

deformation styles observed on a shallow subduction thrust, Hikurangi margin, New Zealand. *Geology*, 47, 872-876. DOI: 10.1130/G46367.1

- Fenton, I.S., Baranowski, U., Boscolo-Galazzo, F., Cheales, H., Kerr, K., King, D., Larkin, C., Latas, M., Liebrand, D., Miller, G., Piga, E., Pugh, H., Rimmelzwaal, S., Roseby, Z., Smith, Y.M., Stukins, S., Taylor, B., **Woodhouse, A.D.**, Worme, S., Fox, L., Pearson, P.N., Poole, C., Wade, B.S., and Purvis, A. (2018). Factors affecting consistency and accuracy in identifying modern macroperforate planktonic foraminifera. *Journal of Micropalaeontology*, 37, 431-443.

MANUSCRIPTS IN PREPARATION

- **Woodhouse, A.D.**, Fenton, I.F., Herman, J., Saupe, E.E., Dunhill, A.M., and Aze, T. The higher they rise, the harder they fall: biogeographic dynamics of Cenozoic planktonic foraminifera.
- **Woodhouse, A.D.**, Barnes, P., Shorrock, A., Strachan, L.J., Crundwell, M.P., Hopkins, J., Bostock, H.C., Kutterolf, S., Pank, K., Greve, A., Cook, A., Petronotis, K., Levay, L., Underwood, M., Bell, R., Jamieson, R.A., Aze, T., Wallace, L., Saffer, D., Pecher, I. Depositional response to glacio-eustatic changes over the last 45 ka, northern Hikurangi subduction margin, New Zealand

PUBLISHED REPORTS

- D.M. Saffer, and the **IODP Expedition 372/375 Scientists** (2019). Expedition 372B/375 summary. *Proceedings of the International Ocean Discovery Program*, Volume 372B/375
- P.M. Barnes, and the **IODP Expedition 372/375 Scientists** (2019). Site U1520. *Proceedings of the International Ocean Discovery Program*, Volume 372B/375
- I.A. Pecher, M.P. Crundwell, A. Greve, H. Kitajima, K.E. Petronotis, C.L. Shepherd, M.B. Underwood, **A.D. Woodhouse**, and the IODP Expedition 372 Scientists (2019). Expedition 372A methods. *Proceedings of the International Ocean Discovery Program*, Volume 372B/375
- L.M. Wallace, and the **IODP Expedition 372/375 Scientists** (2019). Expedition 372B/375 methods. *Proceedings of the International Ocean Discovery Program*, Volume 372B/375
- P.M. Barnes, and the **IODP Expedition 372/375 Scientists** (2019). Site U1519. *Proceedings of the International Ocean Discovery Program*, Volume 372B/375
- L.M. Wallace, and the **IODP Expedition 375 Scientists**. (2019). Site U1526. *Proceedings of the International Ocean Discovery Program*, Volume 372B/375
- D.M. Saffer, and the **IODP Expedition 372/375 Scientists** (2019). Site U1518. *Proceedings of the International Ocean Discovery Program*, Volume 372B/375
- P.M. Barnes, M.P. Crundwell, A. Greve, H. Kitajima, K.E. Petronotis, C.L. Shepherd, M.B. Underwood, **A.D. Woodhouse**, and the IODP Expedition 372 Scientists (2019). Expedition 372A Summary. *Proceedings of the International Ocean Discovery Program*, Volume 372A.
- P.M. Barnes, M.P. Crundwell, A. Greve, H. Kitajima, K.E. Petronotis, C.L. Shepherd, M.B. Underwood, **A.D. Woodhouse**, and the IODP Expedition 372 Scientists (2019). Site 1517. *Proceedings of the International Ocean Discovery Program*, Volume 372A.
- Saffer, D., and the **IODP Expedition 375 Scientists**. (2018). International ocean discovery program Expedition 375 preliminary report: Hikurangi subduction margin coring and observatories unlocking the secrets of slow slip through drilling to sample and monitor the forearc and subducting plate. *Integrated Ocean Drilling Program: Preliminary Reports*, 375.

SELECTED PRESENTATIONS

- **Woodhouse, A.D.**, Dunhill, A., Saupe, E.E., Wignall, P.B., Fenton, I., and Aze, T. (2021). Cenozoic climate regime drove spatial patterns in speciation and dispersal dynamics of planktonic foraminifera. *Geological Society of America 133rd Annual Meeting*, Portland, OR, USA.
- **Woodhouse, A.D.**, Fenton, I.F., Jackson, S., Saupe, E., Dunhill, A., Lazarus, D., Renaudie, J., Sexton, P., Young, J., Pearson, P., Wignall, P., and Aze, T. (2020). Can the Cenozoic marine micropaleontological record be used to predict extinction? *American Geophysical Union 2020 – Session: Paleobiological Impacts of Past Climate Events*, Online - **Invited Speaker**
- **Woodhouse, A.D.**, Fenton, I.F., Jackson, S., Saupe, E., Dunhill, A., Lazarus, D., Renaudie, J., Sexton, P., Young, J., Pearson, P., Wignall, P., and Aze, T. (2020). Can the Cenozoic marine micropaleontological record be used to predict extinction? *Birmingham Palaeo Discussion Group November Series*, Online – **Invited Speaker**
- **Woodhouse, A.D.**, Jackson, S., Jamieson, R., Newton, R., Sexton, P., and Aze, T. Adaptive ecological niche migration does not negate extinction susceptibility. *The Micropalaeontological Society Annual General Meeting 2020*, Online.
- **Woodhouse, A.D.**, Fenton, I.F., Aze, T., Lazarus, D., Renaudie, J., Young, J., Dunhill, A., and Saupe, E.E. (2020). Triton: the new extension of the Neptune Database. *Progressive Palaeontology 2020*, Online.

- **Woodhouse, A.D.**, Jackson, S., Sexton, P.F., Pearson, P.N., Knott, S., Dunhill, A.M., Wignall, P.B., and Aze, T. (2019). To the bitter end: do planktonic foraminifera change their ecological niche prior to extinction? *63rd Palaeontological Association Annual Meeting, University of Valencia, Spain*
- **Woodhouse, A.D.**, Aze, T., Dunhill, A.M., Wignall, P.B., Saupe, E.E., Fenton, I.S., Young, J., Mills, B.J.W. (2018). How have macroperforate planktonic foraminifer biogeographies varied through the Cenozoic. *Geological Society of America 130th Annual Meeting, Indianapolis, USA*.
- **Woodhouse, A.D.**, Malić, P., Crundwell, M.P., Shepherd, C.L., Rabinowitz, H.S., Hollis, C.J., Aze, T., Wallace, L.M., Saffer, D.M., Pecher, I., Barnes, P., Petronotis, K., LeVay, L., IODP Expedition 372B/375 Scientists. (2018). Mid-Cretaceous organic-rich sedimentation in the Hikurangi Plateau – Preliminary Results. *Geological Society of America 130th Annual Meeting, Indianapolis, IN, USA*.

SELECTED CONFERENCE POSTERS

- **Woodhouse, A.D.**, Malić, P., Crundwell, M.P., Shepherd, C.L., Crundwell, M., Williams, O., Hollis, C.J., Wallace, L.M., Saffer, D.M., Pecher, I., Barnes, P. IODP Expedition 372B/375 Scientists. (2020). Mid-Cretaceous organic-rich sedimentation in the Hikurangi Plateau – UKIODP Annual Meeting 2020
- **Woodhouse, A.D.**, Aze, T., Dunhill, A.M., Wignall, P.B., Saupe, E.E. (2018). How have macroperforate planktonic foraminifer biogeographies varied through the Cenozoic? *UK-IODP MagellanPlus ECR Workshop, NOC, UK*
- **Woodhouse, A.D.**, Aze, T., Dunhill, A.M., Wignall, P.B., Saupe, E.E. (2018). How have macroperforate planktonic foraminifer biogeographies varied through the Cenozoic? *FORAMS 2018, Edinburgh, UK*.
- **Woodhouse, A.D.**, Aze, T., Dunhill, A.M., Wignall, P.B. (2017). Death in the oceans: extinction risk in the marine realm. *The Micropalaeontological Society Annual General Meeting, Natural History Museum, UK*.
- **Woodhouse, A.D.**, Edgar, K.M. (2016). Biostratigraphy and evolutionary response of tropical planktonic foraminifera to the Eocene-Oligocene transition (EOT) within the Foz do Amazonas Basin, western equatorial Atlantic margin. *The Micropalaeontological Society Annual General Meeting, Université de Lille, France*.

ADDITIONAL EXPERIENCE

- Co-organizer Progressive Palaeontology 2020 (Jun 11-13, 2020)
- Yorkshire Fossil Festival 2019 (Sep 13-15, 2019)
- Session Chair: NERC DTP Conference Session: Oceans (May 30-31, 2019)
- Session Chair: The Micropalaeontological Society AGM Session 3: Foraminifera (Nov 15, 2018)
- Co-organizer: The Micropalaeontological Society AGM (Nov 14-15, 2018)
- Yorkshire Fossil Festival 2018 (Sep 15-16, 2018)
- Co-organizer: Crossing the Palaeontological-Ecological Gap (Aug 30-31, 2018)
- Environmental Sciences Academy: Ocean Acidification Lecture (5 Jul 2018)
- Session Chair: NERC DTP Conference Session: Oceans and Ice (May 31-Jun 1, 2018)
- Yorkshire Fossil Festival 2017 (Sep 22-24, 2017)

WORKING GROUPS/SOCIETIES

- Cushman Foundation for Foraminiferal Research (Board of Directors)
- Neogene Planktonic Foraminiferal Working Group (Founding Member)

PROFESSIONAL MEMBERSHIPS

- American Geophysical Union
- The Micropalaeontological Society
- Craven and Pendle Geological Society
- The UK Paleoclimate Society
- The Palaeontological Society
- The Geological Society of America
- The Challenger Society

SOCIETY CONTRIBUTIONS

- Theissen, R., and **Woodhouse, A.D.** (2018). TMS Grant-in-aid Reports: FORAMS 2018 (UK), 22nd – 24th September 2017, Newsletter of Micropalaeontology, v. 98, p. 80-84.
- **Woodhouse, A.D. (2018).** The Palaeontological Association Meeting Reports: Progressive Palaeontology 2018 Manchester, UK. 7-9 June 2018. Palaeontology Newsletter No. 99, p. 57-59.
- **Woodhouse, A.D. (2018).** TMS Grant-in-aid Reports: The Yorkshire Fossil Festival, Scarborough (UK), 22nd – 24th September 2017, Newsletter of Micropalaeontology, v. 97, p. 53-55.
- Piga, E., and **Woodhouse, A.D.** (2017). TMS Grant-in-aid Reports: The 10th International School on Foraminifera, Urbino (Italy), 11th – 30th June 2016 – Foramacarena! Newsletter of Micropalaeontology, v. 96, p. 20-22.
- Worne, S., and **Woodhouse, A.D.** (2016). TMS Meeting Reports: TMSoc Annual Conference 2015, Université de Lille 17-18th November 2016; Newsletter of Micropalaeontology, v. 95, p. 10-12.

REFERENCES

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