

# Dr Lewis A. Jones

**NERC Independent Research Fellow**

Department of Earth Sciences  
University College London, London, UK

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## Research summary

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Palaeobiologist examining the macroecological and macroevolutionary history of reef-building organisms, and marine invertebrate biodiversity more broadly, through the integration of interdisciplinary tools and diverse sources of information, such as ecological modelling, Earth System modelling, and fossil and extant occurrence datasets. An additional significant theme of research has been evaluating the influence of data incompleteness on perceptions of the geological past, such as biodiversity trends, and the development of software tools for the research community. Current research focus is investigating the drivers of marine biodiversity hotspots throughout the Cenozoic and reconstructing their evolutionary history.

**Macroecology and biodiversity | Fossil record bias | Corals and reef ecosystems | Palaeoclimate | R programming**

## Education

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### **PhD in Palaeobiology (2016–2020)**

Department of Earth Science and Engineering, Imperial College London, London, UK

Research advisors: Prof. Philip D. Mannion & Prof. Peter A. Allison

Thesis title: On the detectability of latitudinal biodiversity gradients in deep time

### **MPhysGeog in Physical Geography (2011–2015)**

Department of Geography and Earth Science, University of Hull, Hull, UK

Research advisor: Prof. David P.G. Bond

Thesis title: The End-Triassic mass extinction. An investigation of the British Geological Record: testing for the role of volcanism and ocean anoxia

### **Chartered Management Institute (Level 5) in Management and Leadership (2012–2015)**

Leeds University Officer Training Corps, Leeds, UK

## Employment

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### **NERC Independent Research Fellow (2024–current)**

Department of Earth Sciences, University College London, London, UK

### **Juan de la Cierva Postdoctoral Research Fellow (2023–2024)**

Mapas Lab, Centro de Investigación Mariña, Universidade de Vigo, Vigo, Spain

### **European Research Council Postdoctoral Research Assistant (2021–2022)**

Mapas Lab, Centro de Investigación Mariña, Universidade de Vigo, Vigo, Spain

### **Graduate Teaching Assistant (2016–2021)**

Department of Earth Science and Engineering, Imperial College London, London, UK

**Student Hall's Pastoral Warden** (2016–2021)  
Woodward Buildings, Imperial College London, London, UK

**British Army Officer Cadet** (2012–2015)  
Leeds University Officer Training Corps, Leeds, UK

**Sales Assistant** (2010–2012)  
Republic Ltd, Grimsby and Hull, UK

**Baker** (2008–2010)  
Muffin Break, Grimsby, UK

## Research visits

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**University of Vienna, Vienna, Austria** (April–June, 2023)  
Visiting researcher in the Conservation Palaeobiology and Historical Ecology Lab (PI: Prof. Martin Zuschin)

## Publications

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### Peer-reviewed publications

1. Christopher D. Dean, Alfio A. Chiarenza, Jeffrey W. Doser, Alexander Farnsworth, **Lewis A. Jones**, Sinéad J. Lyster, Charlotte L. Outhwaite, Paul J. Valdes, Richard J. Butler, and Philip D. Mannion (2025). The structure of the end-Cretaceous dinosaur fossil record in North America. *Current Biology* 35 (9), 1973–1988 . DOI: [10.1016/j.cub.2025.03.025](https://doi.org/10.1016/j.cub.2025.03.025).
2. Theres Koch, Angelina Ivkić, **Lewis A. Jones**, Victor S. Scharnhorst, Constanze M. Stix, Antonia Auer, Theda Schöchtner, Gözde Özer, Simon Steinwender, Joseph W. Daurella, and Martin Zuschin (2025). Quantifying diversity and growth form distribution of scleractinian corals, in Mangrove Bay, El Qoseir, Egypt. *Biodiversity Data Journal* 13, e134282. DOI: [10.3897/BDJ.13.e134282](https://doi.org/10.3897/BDJ.13.e134282).
3. **Lewis A. Jones**, Christopher D. Dean, William Gearty, and Bethany J. Allen (2024). rmacrostrat: An R package for accessing and retrieving data from the Macrostrat geological database. *Geosphere* 20(6), 1456–1467. DOI: [10.1130/GES02815.1](https://doi.org/10.1130/GES02815.1).
4. **Lewis A. Jones** and Mathew Domeier (2024). A Phanerozoic gridded dataset for palaeogeographic reconstructions. *Scientific Data* 11 (710), 1–7. DOI: [10.1038/s41597-024-03468-w](https://doi.org/10.1038/s41597-024-03468-w).
5. Alfio A. Chiarenza, Juan L. Cantalapiedra, **Lewis A. Jones**, Sara Gamboa, Sofía Galván, Alexander Farnsworth, Paul J. Valdes, Graciela Sotelo, and Sara Varela (2024). Early Jurassic origin of avian endothermy and thermophysiological diversity in dinosaurs. *Current Biology* 34 (11), 2518–2527. DOI: [10.1016/j.cub.2024.04.051](https://doi.org/10.1016/j.cub.2024.04.051).
6. Kilian Eichenseer and **Lewis A. Jones** (2024). Bayesian multi-proxy reconstruction of early Eocene latitudinal temperature gradients. *Climate of the Past* 20, 349–362. DOI: [10.5194/cp-20-349-2024](https://doi.org/10.5194/cp-20-349-2024).
7. Lucas Buffan, **Lewis A. Jones**, Mathew Domeier, Christopher R. Scotese, Sabin Zahirovic and Sara Varela (2023). Mind the uncertainty: Global Plate Model choice impacts deep-time palaeobiological studies. *Methods in Ecology and Evolution* 14 (12), 3007–3019. DOI: [10.1111/2041-210X.14204](https://doi.org/10.1111/2041-210X.14204).
8. William Gearty and **Lewis A. Jones** (2023). rphylopic: An R package for fetching, transforming, and visualising PhyloPic silhouettes. *Methods in Ecology and Evolution* 14 (11), 2700–2708. DOI: [10.1111/2041-210X.14221](https://doi.org/10.1111/2041-210X.14221).
9. **Lewis A. Jones**, William Gearty, Bethany J. Allen, Kilian Eichenseer, Christopher D. Dean, Sofía Galván, Miranta Kouvari, Pedro L. Godoy, Cecily Nicholl, Lucas Buffan, Erin M. Dillon, Joseph T. Flannery-Sutherland and A. Alessandro Chiarenza (2023). palaeoverse: A community-driven R package to support palaeobiological analysis. *Methods in Ecology and Evolution* 14 (9), 2205–2215. DOI: [10.1111/2041-210X.14099](https://doi.org/10.1111/2041-210X.14099).
10. **Lewis A. Jones**, Philip D. Mannion, Alexander Farnsworth, Fran Bragg, and Daniel J. Lunt (2022). Climatic and tectonic drivers shaped the tropical distribution of coral reefs. *Nature Communications* 13 (3120), 1–10. DOI: [10.1038/s41467-022-30793-8](https://doi.org/10.1038/s41467-022-30793-8).

11. **Lewis A. Jones** and Kilian Eichenseer (2022). Uneven spatial sampling distorts reconstructions of Phanerozoic seawater temperature. *Geology* 50 (2), 238–242. DOI:[10.1130/G49132.1](https://doi.org/10.1130/G49132.1).
12. **Lewis A. Jones**, Christopher D. Dean, Philip D. Mannion, Alexander Farnsworth, and Peter A. Allison (2021). Spatial sampling heterogeneity limits the detectability of deep time latitudinal biodiversity gradients. *Proceedings of the Royal Society B* 288 (1945), 20202762. DOI:[10.1098/rspb.2020.2762](https://doi.org/10.1098/rspb.2020.2762).
13. **Lewis A. Jones**, Philip D. Mannion, Alexander Farnsworth, Paul Valdes, Sarah-Jane Kelland, and Peter A. Allison (2019). Coupling of palaeontological and neontological reef coral data improves forecasts of biodiversity responses under global climatic change. *Royal Society Open Science* 6 (4), 182111. DOI:[10.1098/rsos.182111](https://doi.org/10.1098/rsos.182111).
14. Alfio Alessandro Chiarenza, Philip D. Mannion, Daniel Lunt, Alexander Farnsworth, **Lewis A. Jones**, Sarah-Jane Kelland, and Peter A. Allison (2019). Ecological niche modelling does not support climatically-driven dinosaur diversity decline before the Cretaceous/Paleogene mass extinction. *Nature Communications* 10 (1091), 1–14. DOI:[10.1038/s41467-019-08997-2](https://doi.org/10.1038/s41467-019-08997-2).

## In-press and submitted manuscripts

1. **Lewis A. Jones**, Christopher D. Dean, Bethany J. Allen, Harriet B. Drage, Joseph T. Flannery-Sutherland, William Gearty, Alfio A. Chiarenza, Erin M. Dillon, Bruna M. Farina, and Pedro L. Godoy (In press). Ten simple rules to follow when cleaning occurrence data in palaeobiology. *Palaeontology*. Preprint DOI: [10.32942/X2FS8M](https://doi.org/10.32942/X2FS8M).
2. **Lewis A. Jones**, Danijela Dimitrijević, Markus Aretz, Francesca R. Bosellini, Juan C. Braga, Clara Diaz, Elizabeth Dowding, Kenneth Johnson, Wolfgang Kiessling, Bernard Lathuilière, Anna Merkel, Kyle Morgan, Michele Morsilli, John M. Pandolfi, Miłoj K. Zapalski, and Nadia Santodomingo (In review). The potential of mesophotic environments to provide refugia for coral communities during times of crises. *Nature Communications*.
3. **Lewis A. Jones**, William Gearty, Lucas Buffan, and Bethany J. Allen (In review). Global plate model choice impacts reconstructions of the latitudinal biodiversity gradient. *Global Change Ecology*. Preprint DOI: [10.1101/2025.01.09.632144](https://doi.org/10.1101/2025.01.09.632144).
4. Angelina Ivkić, **Lewis A. Jones**, Andreas Kroh, Abbas Mansour, Mohamed Osman, Mohamed Hassan, and Martin Zuschin (In review). Reconstructing ecosystem baselines using Pleistocene data: insights from an Egyptian coral reef. *Coral Reefs*.
5. Miranta Kouvari, Kateryn Pino, **Lewis A. Jones**, Juan Carrillo, Grace Varnham, Alexander Farnsworth, Anjali Goswami, and Philip Mannion (In review). The impact of Andean uplift and climate on eutherian mammal diversification and the emergence of the present-day latitudinal biodiversity gradient in South America. *Current Biology*.

## Theses

1. **Lewis A. Jones** (2020). On the detectability of latitudinal biodiversity gradients in deep time. PhD Thesis. Imperial College London. Supervisors: Prof. Philip D. Mannion and Prof. Peter A. Allison. DOI:[10.25560/100239](https://doi.org/10.25560/100239).
2. **Lewis A. Jones** (2015). The end-Triassic mass extinction. An investigation of the British geological record: testing for the role of volcanism and ocean anoxia. Master Thesis. Supervisor: Prof. David Bond.

## Other works

1. **Lewis A. Jones**, Christopher D. Dean, and Harriet B. Drage (2025). [Introducing the Palaeoverse](#). *The Palaeontological Association Newsletter* 118.
2. **Lewis A. Jones** (2024). [Meeting report: R for Palaeobiologists: Workshop and Hackathon](#). *The Palaeontological Association Newsletter* 116.
3. **Lewis A. Jones** (2023). [Palaeontology's greatest ever graphs: The absence of evidence: spatial sampling bias in the fossil record](#). *The Palaeontological Association Newsletter* 114.
4. **Lewis A. Jones** (2022). [Book review: Timefulness: How thinking like a geologist can help save the world](#). *The Palaeontological Association Newsletter* 110.

5. Michael Stevens, Yiqiao Chen, Alex Stringer, Caitlin Clemmow, and **Lewis A. Jones** (2020). **Key factors driving obesity in the UK**. *GISRUK* 2020.
6. **Lewis A. Jones** (2020). **Meeting report: 13<sup>th</sup> International Symposium of Fossil Cnidaria and Porifera**. *The Palaeontological Association Newsletter* 102.

## Published software

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1. **palaeoverse**: A community-driven R package to support data preparation and exploration for palaeobiological analyses. CRAN: <https://cran.r-project.org/web/packages/palaeoverse/>. GitHub: <https://github.com/palaeoverse/palaeoverse>.
2. **rphylopic**: An R package for fetching, transforming, and visualising PhyloPic silhouettes. CRAN: <https://cran.r-project.org/web/packages/rphylopic/>. GitHub: <https://github.com/palaeoverse/rphylopic>.
3. **sepkoski**: A data R package of Sepkoski's Fossil Marine Animal Genera Compendium (Sepkoski, 2002). CRAN: <https://cran.r-project.org/web/packages/sepkoski/>. GitHub: <https://github.com/lewisajones/sepkoski>.
4. **rmacrostrat**: An R package to fetch geologic data from the Macrostrat database. CRAN: <https://cran.r-project.org/web/packages/rmacrostrat/>. GitHub: <https://github.com/palaeoverse/rmacrostrat>.

## Academic awards and grants

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### Open Science and Scholarship Awards, University College London

Runner-up award for 'Enhancing open science and reproducibility capacity in the academic community'

### Benthic marine ecosystem dynamics through time and space (BENEDICTS) (2025)

Proyectos de Generación de Conocimiento (Knowledge Generation Projects), Spain

Role: co-applicant, value: 125,380 EUR

### Dorothy Bishop Award, UK Reproducibility Network (2025)

Early Career Researcher award for promoting and improving open research practices

### Elucidating diversity dynamics in marine tropical hotspots (EDiTH) (2024)

Natural Environment Research Council Independent Research Fellowship, UK

Role: applicant, value: 874,978 GBP

### Addressing the origins of marine invertebrate diversity in computer simulations (INDICiOS) (2024)

Proyectos de Generación de Conocimiento (Knowledge Generation Projects), Spain

Role: co-applicant, value: 345,000 EUR

### Reconstructing the diversity dynamics and drivers of Cenozoic marine biodiversity hotspots (2024)

Norman Newell grant from the Paleontological Society, USA

Role: applicant, value: 5000 USD

### rmacrostrat R package development workshop (2024)

Scientific Exchange grant from the Swiss National Science Fund, Switzerland

Role: co-applicant, value: 5800 CHF

### MURKY: Mesophotic and turbid reefs as key ecosystems for the future? (2023)

Research workshop grant from the Paleosynthesis project, Friedrich-Alexander-Universität, Germany

Role: co-applicant, value: 10,000 EUR

### R for Palaeobiologists: Workshop and Hackathon (2023)

Meeting support grant from The Paleontological Society, USA

Role: co-applicant, value: 1000 USD

### R for Palaeobiologists: Workshop and Hackathon (2022)

Grant-in-Aid from The Palaeontological Association, UK

Role: applicant, value: 2000 GBP

**Juan de la Cierva Postdoctoral Research Fellowship (2022)**

Agencia Estatal de Investigación, Spain

Role: applicant, value: 64,800 EUR

**Doctoral Summer School for Advanced Spatial Modelling - Hackathon award (2019)**

Awarded for best hackathon project, Centre for Advanced Spatial Analysis, University College London, London

Value: 250 GBP

**13<sup>th</sup> International Symposium on Fossil Cnidaria and Porifera - Travel grant (2019)**

Travel grant from The Palaeontological Association, UK

Role: applicant, value: 220 EUR

**President's PhD Scholarship (2016)**

Imperial College London, London, UK

Role: applicant, value: 79,000 GBP

**Roger Ward thesis award (2015)**

Awarded for best Master's thesis, University of Hull, Hull, UK

Value: 50 GBP

## Invited presentations

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**Department of Earth Sciences, University College London, London, UK (2025)**

Talk: Open Science, Software, and Coding

**Centre for Biodiversity and Environment Research, University College London, London, UK (2024)**

Talk: Mind the Gap: Reconstructing marine biodiversity through time and space

**Computational Palaeobiology Mini-Symposium (2024)**

Department of Biosystems Science and Engineering, ETH Zürich, Basel, Switzerland

Talk: Mind the uncertainty: Global Plate Model choice impacts deep-time palaeobiological studies

**Methods in Ecology and Evolution: Live! (2023)**

British Ecological Society, Online workshop

Talk: Introduction to rphylpic: An R package for fetching, transforming, and visualising PhyloPic silhouettes

**Department of Palaeontology, University of Vienna, Austria (2023)**

Talk: Into the palaeoverse: a community-driven R package

**PalaeoSIG (British Ecological Society): Masterclass in R (2022)**

Talk: Into the palaeoverse: a community-driven R package

**Getech PLC (2018)**

Talk: Ecological modelling in Geosciences

## Selected conference presentations

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**4<sup>th</sup> Crossing the Palaeontological-Ecological Gap Meeting (Zürich, Switzerland, 2025)**

Poster: Elucidating Diversity Dynamics in Marine Tropical Hotspots: Caribbean

**68<sup>th</sup> Annual Meeting of the Palaeontological Association (Erlangen, Germany, 2024)**

Poster: rmacrostrat: An R package for retrieving data from the Macrostrat geological database

**12<sup>th</sup> North American Paleontological Convention (Ann Arbor, Michigan, USA, 2024)**

Talk: Mind the uncertainty: Global Plate Model choice impacts deep-time palaeobiological studies

Poster: palaeoverse: A community-driven R package to support palaeobiological analyses

Poster: rmacrostrat: An R package for retrieving data from the Macrostrat geological database

## **14<sup>th</sup> International Fossil Coral and Reef Society symposium** (Chęciny, Poland, 2023)

Talk: Inverse latitudinal diversity gradients in Last Interglacial coral reef communities

## **The Palaeontological Association: Annual Meeting** (Cork, Ireland, 2022)

Poster: Niche characterisation is biased by limited and heterogeneous spatial sampling

## **Simposio de Paleontologia del noroeste peninsular** (A Coruña, Spain, 2022)

Poster: palaeoverse: a community-driven R package

## **The Palaeontological Association: Annual Meeting** (Valencia, Spain, 2019)

Talk: Poor spatial sampling coverage obscures our understanding of the latitudinal biodiversity gradient in deep time

Poster: Uneven spatial sampling in Phanerozoic palaeoclimate curves

## **13<sup>th</sup> International Symposium on Fossil Cnidaria and Porifera** (Modena, Italy, 2019)

Talk: The evolution of the latitudinal biodiversity gradient in zooxanthellate corals

## **The past is a foreign country: how much can the fossil record actually inform conservation?** (London, UK, 2019)

Poster: Looking through the palaeontological window: reducing geographical and environmental bias in forecasting biodiversity responses

## **Crossing the Palaeontological–Ecological Gap** (Leeds, UK, 2018)

Talk: Absence of evidence is not evidence of absence: quantifying reef coral range shifts under global climatic change

## **British Ecological Society - Macroecology** (St. Andrews, UK, 2018)

Talk: Anthropogenic climate change and transitional distribution ranges of reef corals: insights from the last Pleistocene interglacial

## **The Palaeontological Association: Progressive Palaeontology** (Manchester, UK, 2018)

Talk: Coupling palaeontological and neontological data: transitional distribution ranges of reef corals under global climatic change

## **The Palaeontological Association: Annual Meeting** (London, UK, 2017)

Poster: Ecological niche modelling in deep time: constraining the transitional distribution ranges of reef corals

## **European Coral Reef Symposium** (Oxford, UK, 2017)

Poster: Anthropogenic climate change and transitional distribution ranges of reef corals: insights from the last Pleistocene interglacial

## **The Palaeontological Association: Progressive Palaeontology** (Leicester, UK, 2017)

Poster: PalaeoENM: Ecological Controls on Triassic/Jurassic Coral Reefs

# **Fieldwork experience**

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## **El Qoseir, Egypt** (2023)

Modern and fossil (Last Interglacial) coral reef data collection via line-intercept transects

## **León, Spain** (2022)

Logging and bulk sampling of Devonian sequences

## **Colorado and New Mexico, USA** (2016)

Logging, sampling, and fossil prospecting across the Cenomanian/Turonian boundary

## **Somerset, Lyme Regis, and Newark, UK** (2015)

Logging, sampling, and geochemical analysis across the Triassic/Jurassic boundary

**Koh Rong, Cambodia** (2012)

Marine biological surveys as part of Koh Rong's (Cambodia) coral reef monitoring project

## Professional development

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**Fair and Inclusive Recruitment** (2024)

University College London, London, UK

**Introduction to Research Supervision** (2024)

University College London, London, UK

**Macroevolution and Phylogenies** (2022)

Transmitting Science, Online

**Introduction to GEN3SIS** (2022)

Universidade de Vigo, Vigo, Spain

**Towards more equitable marine research** (2021)

Centro de Investigación Mariña (led by Transmitting Science), Universidade de Vigo, Spain

**Data Manipulation and Statistical Analysis in Palaeoecology** (2021)

Palaeoecology Group, British Ecological Society, Online

**Doctoral Summer School for Advanced Spatial Modelling** (2019)

The Centre for Advanced Spatial Analysis, University College London, London, UK

**Species distribution modelling: fundamentals and the future workshop** (2019)

University of Nottingham, Nottingham, UK

**Advanced ecological niche modelling** (2018)

University of Porto, Porto, Portugal

**Introduction to ecological niche modelling** (2017)

Transmitting Science, Barcelona, Spain

**Introduction to coral identification** (2017)

European Coral Reef Symposium, Oxford, UK

**Introduction to larval dispersal modelling** (2017)

European Coral Reef Symposium, Oxford, UK

## Student supervision

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**Jason Wang** (2025–Current)

University College London, UK

PhD project: The taxonomic and ecomorphological diversity of birds through deep time

**Gloria Herrero** (2025–Current)

Institut de Ciències del Mar, Spain

PhD project: Addressing the origins of marine invertebrate diversity in computer simulations

**Xiaoli Ma** (2024–2025)

Nanjing University, China

PhD project: Palaeogeographic reconstructions shape understanding of deep-time climate change

**Die (Wendy) Wen** (2024–2025)

University College London, UK

PhD project: Reconstructing Palaeozoic marine latitudinal diversity gradients

**Theres Koch (2024)**

University of Vienna, Austria

Master's project: Checklist of scleractinian species in Mangrove Bay, El Qoseir, Egypt

**Miranta Kouvari (2019–2023)**

University College London, London, UK

Master's project: The latitudinal biodiversity gradient of South American eutherians

**Lucas Buffan (2021–2022)**

University of Vigo, Vigo, Spain

Master's project: Spatial discrepancies in palaeogeographic reconstructions

## Teaching and pastoral care

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**Guest Lecturer (2024–Current)**

Department of Earth Sciences, University College London, UK

- Advanced Biodiversity and Macroevolutionary Studies (GEOL0036)
- The Earth - Meet Your Researcher (GEOL0007)

**Building Open Data Science Skills in Palaeobiology and Ecology (2025)**

4<sup>th</sup> Crossing the Palaeontological-Ecological Gap Meeting, Zürich, Switzerland

Organised and ran a workshop on open data science skills

**R for Paleobiologists: Getting Started with the palaeoverse R Package (2024)**

12<sup>th</sup> North American Paleontological Convention, Ann Arbor, Michigan, USA

Organised and ran a workshop on using R in Palaeobiology

**Lab Assistant (2024)**

Universidade de Vigo, Vigo, Spain

- Computational Tools in Biology

**R for Palaeobiologists: Workshop and Hackathon (2023)**

University College London, UK

Organised and ran a workshop on using R in Palaeobiology

**Graduate Teaching Assistant (2016–2021)**

Imperial College London, London, UK

- Palaeobiology I
- Palaeobiology II
- Dorset (UK) geology field course
- Almería (Spain) geology field course

**Student Hall's Pastoral Warden (2016–2021)**

Woodward Buildings, Imperial College London, London, UK

## Professional appointments, service, and outreach

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**Generation Hope, Natural History Museum, London, UK (2025)**

Outreach science stall on coral resilience

**Scientific Associate, Natural History Museum, London, UK (2025–Current)**

Palaeontology, Department of Earth Sciences



**Handling Editor for *Open Palaeontology* (2024–Current)**

*Open Palaeontology* is a new international Diamond Open Access journal promoting open science in the field of palaeontology

**68<sup>th</sup> Annual Meeting of the Palaeontological Association** (Erlangen, Germany, 2024)

Session chair: Climate Change

**Recent Advances in Computational Paleobiology symposium** (Ann Arbor, Michigan, USA, 2024)

Co-organised and ran a symposium at the 12<sup>th</sup> North American Paleontological Convention

**Palaeoverse Lecture Series** (2024–Current)

Monthly lecture series on recent advances in computational tools and methods in palaeobiology

<https://www.youtube.com/@ThePalaeoverse/>

**14<sup>th</sup> International Fossil Coral and Reef Society symposium** (Chęciny, Poland, 2023)

Session chair: Research Methods

**IFCRS Internet Officer** (2023–current)

Council member of the International Fossil Coral and Reef Society (IFCRS)

**IFCRS Early Career Researcher Representative** (2021–2023)

Council member of the International Fossil Coral and Reef Society (IFCRS)

**IFCRS Lecture Series** (2022)

International Fossil Coral and Reef Society, Online

Co-organised and ran a lecture series on fossil corals and reefs

**IFCRS Early Career Researcher Symposium** (2021)

International Fossil Coral and Reef Society, Online

Co-organised and ran an early career researcher meeting on fossil corals and reefs

**Fossil Fact or Fiction stall** (2019)

Einstein's Garden, Green Man Festival, Brecon Beacons, Wales

Co-ran a stall on fossil record bias over the course of the festival

**Ecological niche modelling workshop** (2018)

Imperial College London, London, UK

Co-organised and ran a workshop on ecological niche modelling

**Palaeontological Association meeting** (2017)

Imperial College London, London, UK

Co-organised and ran the annual meeting of the Palaeontological Association

## Peer-review experience

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**Publications**

*Big Earth Data Journal* (1), *Conservation Biology* (1), *Ecological Monographs* (1), *Global Ecology and Biogeography* (3), *Journal of Biogeography* (1), *Palaeontology* (2), *Paleobiology* (3), *Methods in Ecology and Evolution* (4), *Nature Communications* (1), *Science Advances* (1), *Scientific Reports* (1), *Trends in Ecology and Evolution* (1)

**Research proposals**

Daphne Jackson Fellowship (1)

## Skills

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**R programming**

Advanced proficiency in data analysis, data visualization, writing functions and developing packages

**Geocomputation**

Proficient in spatial analysis and the use of R spatial packages (e.g. raster, terra, sf, sp)

**Languages**

Spanish (CEFR B1)

Mandarin Chinese (HSK1)

**SCUBA diver**

BSAC-accredited Ocean and Sports Diver

**Workplace qualifications**

Emergency first-aid at work & automated external defibrillator

Outdoors emergency first-aid

Mental health first-aid

Fire safety and warden

Active-bystander

**Driving**

Full EU driving license

**Memberships**

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Member of the British Ecological Society (2017–present)

Member of the Palaeontological Association (2017–present)

Member of the International Fossil Coral and Reef Society (2018–present)

Member of the Conservation Paleobiology Network (2019–present)

Member of the Paleontological Society (2023–present)