

Edward Clennett

Jackson School of Geosciences & Institute for Geophysics, The University of Texas, Austin, TX, USA

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Education

- 2020-2025 **University of Texas at Austin**, Jackson School of Geosciences & Institute for Geophysics **PhD**, Geological Sciences.
- Research on the effect of GPE on plate tectonics and plate driving forces, advised by Thorsten Becker and Claudio Faccenna
- 2015-2019 **University of Oxford**, Exeter College & Department of Earth Sciences **MEarthSci**, Earth Sciences. Classification: First class.
- MEarthSci thesis: “*A Quantitative Tomotectonic Plate Reconstruction of Western North America and the Eastern Pacific Basin*”. Supervised by Karin Sigloch. Placed 1st in year, grade: 1st class.
 - BA Extended essay: “*The relative importance of static and dynamic stress changes in triggering aftershocks*”. Advised by Jessica Hawthorne. Grade: 1st class.
 - BA Independent mapping project: “*Geology of Kekerengu, South Island, New Zealand*”. Grade: 1st class.
- 2008-2015 **Reading School**
A Levels: Mathematics A*, Further Mathematics A*, Chemistry A*, Physics A*, Geography A.
GCSEs: 9 A*s, 2 As and FSMQ: Additional Maths – A.

Professional Experience

- 2019-2020 *Researcher*, Department of Earth Sciences, University of Oxford.
- 08-09/2019 *Scientist*, RV Investigator, CSIRO Marine National Facility/University of Sydney.
- 11-12/2018 *Visiting Research Student*, EarthByte Group, School of Geosciences, University of Sydney.
- 07-08/2018 *Scientific Research Intern*, National Institute of Space Research, Brazil.
- 2016-2018 *Volunteer*, Oxford University Museum of Natural History.

Awards and Grants

- 2021-2022 **Graduate Fellowship** – Jackson School of Geosciences, University of Texas.
- 2020-2021 **Fulbright All Disciplines Postgraduate Award** – \$45,000 scholarship awarded by the US-UK Fulbright Commission to support postgraduate study in the USA.
- 07/2020 **Second Prize, Halliburton Landmark Earth Model Award** – Global industry-recognized award for Master’s geoscience projects.
- 02/2020 **UKOGL Prize** – awarded by the Geologists’ Association, for an outstanding UK MSci thesis.
- 06/2019 **BP Prize for best master’s project** – awarded by the Department of Earth Sciences, Oxford.
- 06/2019 **Fitzgerald Prize** – awarded by Exeter College, Oxford, for achieving a 1st class honours degree.
- 12/2018 **University of Sydney Prize for best seminar on Natural Hazards** – Geological Society of Australia Earth Science Student Symposium New South Wales 2018.
- 11/2018 **Burdett-Coutts fund** – travel grant awarded by the Department of Earth Sciences, Oxford, to support a research visit to the University of Sydney.
- 07/2018 **BP Scholarship** – to fund an internship at the National Institute of Space Research, Brazil.
- 06/2018 **AWE prize in Geophysics** – awarded by the Department of Earth Sciences, for best 3rd year performance in Geophysics and Mathematics.
- 07/2017 **Oxford University Expeditions Council** – grant to support fieldwork in Kekerengu, New Zealand.
- 07/2017 **Gilchrist Educational Trust** – grant to support fieldwork in Kekerengu, New Zealand.
- 07/2017 **Exeter College Academic Grant** – to support fieldwork in Kekerengu, New Zealand.
- 07/2017 **Department of Earth Sciences Travel Grant** – to support fieldwork in Kekerengu, New Zealand.
- 2017-2019 **East Scholarship** – Exeter College, Oxford, for 1st class marks in 2nd & 3rd year examinations.
- 2016-2017 **East Exhibition** – Exeter College, Oxford, for excellent performance in 1st year examinations.
- 08/2013 **Silver Medal, 2013 International Geography Olympiad, Kyoto** – placed 23rd out of 126.

Teaching Experience

Vector Calculus

- Tutor for the 3rd year undergraduate course, Department of Earth Sciences, University of Oxford, taught by Tarje Nissen-Meyer.
- Taught 6 tutorials in total, to students from Exeter College, Oxford.

GPlates tutorials

- Prepared a GPlates tutorial sheet, and ran sessions with PhD students at the University of Oxford.

Fieldwork planning

- Invited seminar to the Oxford University Exploration Club about undertaking geological fieldwork and planning expeditions.

Snowdonia Field Course

- Led a 3-day field course to Snowdonia, Wales, with the Oxford University Geological Society.

Fieldwork

Field experience in: *Coral Sea* (marine geology & geophysics), *Greece* (active tectonics), *Almería* (basin evolution), *Kekerengu* (independent mapping project), *Assynt* (metamorphic petrology and structural geology), *Snowdonia* (geology – field trip leader), *Dorset* (sedimentary geology and palaeontology), *Oxfordshire* (sedimentary geology), *Gloucestershire* (sedimentary geology), *Arran* (geology), *Pembrokeshire* (geology; fluvial geography), *Surrey* (fluvial geography), *Kyoto* (geography) and the *English Lake District* (geography).

Publications

Clennett, E. J., Sigloch, K., Mihalynuk, M. G., Seton, M., Henderson, M. A., Hosseini, K., Mohammadzaheri, A., Johnston, S. T., & Müller, R. D. (2020) A Quantitative Tomotectonic Plate Reconstruction of Western North America and the Eastern Pacific Basin. *Geochemistry, Geophysics, Geosystems*, 21, e2020GC009117. <https://doi.org/10.1029/2020GC009117>

Chui, F., **Clennett, E. J.**, Orth, K., & Marrison, M. (2019) Keeping it plutonic with underwater hot rocks. *CSIROscope blog*. <https://blog.csiro.au/underwater-rocks-coral-sea/>

Conference Presentations

Sigloch, K., **Clennett, E.**, Mihalynuk, M. G., Seton, M., Henderson, M. A., Hosseini, K., Mohammadzaheri, A., Johnston, S. T., & Müller, R. D. (2020) Tomotectonic Reconstruction of Cordilleran North America and the Eastern Proto-Pacific, Abstract T027. Presented at 2020 Fall Meeting, AGU, San Francisco, CA, 7-11 Dec. **[INVITED]**

Sigloch, K., Mohammadzaheri, A., Hosseini, K., **Clennett, E. J.**, & Mihalynuk, M. G. (2020) The importance of trench pull in breaking up Pangaea and opening the Atlantic, Abstract T11. Presented at GSA 2020 Connects Online, 26-30 Oct. **[INVITED]**

Clennett, E., Sigloch, K., Mihalynuk, M., Seton, M., Henderson, M., Hosseini, K., Mohammadzaheri, A., Johnston, S., & Müller, D. (2020) Reconstructing western North America using lower mantle slabs. Presented at the Mini-Workshop on Feedbacks Between Mantle Composition, Structure, and Evolution, 14-16 Sep.

Clennett, E. J., Sigloch, K., Mihalynuk, M. G., Seton, M., & Müller, R. D. (2019) A Quantitative Tomotectonic Plate Reconstruction of Western North America and the Eastern Pacific Basin, Abstract T33C-04. Presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.

Clennett, E. J. & Naccarato, K. P. (2018) Electrostatic field patterns produced by ordinary and severe storms in the region of Campinas. Presented at GESSS NSW 2018, Sydney, NSW, 3-4 Dec. **[INVITED]**

Professional Memberships & Societies

2020-present	Geologists' Association – Member
2020-present	Geological Society of America – Student member
2019-present	American Geophysical Union – Student member
2017-present	Institute of Materials, Minerals and Mining – Young member
2015-present	Oxford University Geological Society – Member, field trip representative (2016-2017)