

William Eaton

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Education

- University of Oxford, UK** (2016 - 2021)
Integrated BA and MEarth Sci in Earth Sciences - First Class Honours
- John Hampden Grammar School, High Wycombe, UK** (2009 - 2016)
A Levels (4 A*s), AS Level (1 A) and GCSE's (10 A*s, 2 As)

Research Experience

- MEarth Sci Research Project** (2020 - 2021)
'Seismic scattering on Mars, Earth, its moon and a supercomputer'
 - Investigating physical parameters facilitating a transition from ballistic to diffuse scattering behaviour of elastic waves.
 - Numerical wave propagation through 3D heterogeneous media using AxiSEM3D.
 - Development and application of novel analytical techniques such as (moving-window) multi-scale entropy to synthetic seismograms.
 - Analysis of Lunar Apollo and Martian InSight seismic data using these novel techniques to compare scattering behaviour.
 - Supervised by Professor Tarje Nissen-Meyer.
- Independent Extended Essay** (2020)
'Seismic heterogeneity and anisotropy in Earth's inner core and the implications for inner core dynamics'
 - Independent literature research project to produce 4000-word, review-paper-style extended essay.
 - Skills gained in critical analysis of publications and synthesis/processing of publically-available data.
- Geological Mapping project** (2019 - 2020)
'Geology and tectonic history of Saint-Chinian, Languedoc, France'
 - Independent 6-week fieldwork project studying bedrock and collecting samples over 21 km², followed by sample analysis culminating in 5000-word report.
- Data Analysis Internship** (March 2018)
Vale of White Horse District Council, United Kingdom
 - Analysis of a five-year NO₂ time-series using MATLAB. Results presented to the Council's Air Quality Officers to assist policy-making on local environmental issues.

Academic Awards and Prizes

- Shell Prize** - *Dept. of Earth Sciences, University of Oxford* (2021)
Best overall performance in Earth Sciences Final Honours School.
- Schlumberger Prize** - *Dept. of Earth Sciences, University of Oxford* (2021)
Best 4th Year performance in Geophysics.
- Gibbs Prize** - *Dept. of Earth Sciences, University of Oxford* (2020)
Best undergraduate independent research (geological mapping) project.
- Burdett-Coutts Prize** - *Dept. of Earth Sciences, University of Oxford* (2020)
Best overall 3rd Year performance in Earth Sciences Final Honours School.
- Academic Exhibition and Scholarship** - *University College, Oxford* (2017; 2019, 2020)
Exhibitioner (2017) and Scholar (2019, 2020) status awarded in recognition of academic excellence.
- Keith Cox Prize** - *Dept. of Earth Sciences, University of Oxford* (2019)
Best 2nd year fieldwork during Assynt fieldtrip, Scotland.
- International Seismological Centre Prize** - *Dept. of Earth Sciences, University of Oxford* (2018)
Best 1st Year student in Mathematics and Geophysics.

Skills

Programming skills:	Proficient writing scientific scripts, functions and packages in Python and MATLAB. Experience with Linux environments and Git.
Computing skills:	Data-visualisation using ArcGIS PRO, QGIS, ParaView and Adobe Illustrator. Competent using LaTeX and Excel.
Fieldwork experience	Extensive fieldwork experience in Assynt, Arran, Dorset and Pembrokeshire (UK) and Saint-Chinian (France). Remote fieldwork and analysis of central Greece.

Extra-Curricular projects, Societies, Committees and Voluntary Work

TETHYS (Talks on Earth Science Topics Hosted by Young Scientists) (2020 - Present)

Co-founder and Seminar Host

- New seminar series showcasing recent-graduate and undergraduate research.
- Goals to facilitate networking and expand the scope and accessibility of seminars available to undergraduates.
- Two semesters of seminars completed with 20 speakers from 11 UK and international universities.

Fieldwork and Academic module seminars (2019, 2020)

Organiser and Host

- Independently-organised talks to Earth Science students, advising on topics such as fieldwork projects (2019, 2020) and optional undergraduate modules (2020).

Oxford University Geological Society Committee (2017 - 2020)

Social Secretary (2017 - 2018) and Treasurer (2019 - 2020)

- Coordinating internal and external events and overseeing finances.

The Sollas (2017 - 2018)

President

- Peer-elected president organising geological fieldtrips, lectures, networking events and liaising with alumni.

University Open Day (2017 - 2020)

Student Ambassador

- Providing student tours to prospective applicants within the Earth Sciences department.

Conference Attendances

American Geophysical Union Fall Meeting 2020 (Virtual attendance) (1st - 17th December 2020)

Professional Society Memberships

American Geophysical Union (January 2021 - Present)

Seismological Society of America (February 2021 - Present)