

Appointments	<p><b>Postdoctoral Research Associate in Planetary Atmospheres</b> University of Oxford, Department of Physics, Oxford, UK (2023–)</p> <p><b>Brownlee Junior Research Fellow (non-stipendiary)</b> Linacre College, Oxford, UK (2023–)</p>
Qualifications	<p><b>Doctor of Philosophy in Earth Sciences</b> University of Cambridge, UK (2019–2023)</p> <ul style="list-style-type: none"><li>• <i>supervisors:</i> Dr. Oliver Shorttle &amp; Dr. John Rudge</li><li>• <i>thesis title:</i> Inside-out diversity of rocky planets</li></ul>
Grants	<p><u>Principal investigator</u></p> <ul style="list-style-type: none"><li>• Oxford University Press John Fell Fund, <i>Oxoplanets: Interdisciplinary Planetary Research at Oxford</i> (2024–2026)</li></ul>
Selected awards	<ul style="list-style-type: none"><li>• Harding Distinguished Postgraduate Research Scholarship, Cambridge Trust</li><li>• Alexander Graham Bell Canada Graduate Scholarship - Doctoral, Natural Sciences and Engineering Research Council of Canada (NSERC), <i>declined</i></li><li>• Postgraduate Scholarship - Doctoral, NSERC</li><li>• Canada Graduate Scholarship - Master's, NSERC</li></ul>
Publications	<p><u>Invited review articles</u></p> <p><b>Guimond C. M.</b>, Wang H., Seidler F., Sossi P., Mahajan A., Shorttle O. (2024). From stars to diverse mantles, melts, crusts, and atmospheres of rocky planets. <i>Reviews in Mineralogy and Geochemistry</i>, 91.</p> <p><u>Peer-reviewed</u></p> <p>Law R., Born A., Voigt P., MacGregor J., <b>Guimond C.M.</b> Exploring the conditions conducive to convection within the Greenland Ice Sheet [submitted to <i>Geophysical Research Letters</i>].</p> <p>Hammond M., <b>Guimond C.M.</b>, et al. (2025). Reliable Detections of Atmospheres on Rocky Exoplanets with Photometric JWST Phase Curves. <i>The Astrophysical Journal Letters</i> [in press].</p> <p><b>Guimond C. M.</b>, Shorttle O., Rudge J.F. (2023). A mineralogical reason why all exoplanets cannot be equally oxidising. <i>Monthly Notices of the Royal Astronomical Society</i>, 525, 3.</p> <p><b>Guimond C. M.</b>, Shorttle O., Rudge J.F. (2023). Mantle mineralogical limits to rocky planet water inventories. <i>Monthly Notices of the Royal Astronomical Society</i>, 521, 2.</p> <p><b>Guimond C. M.</b>, Rudge J.F., Shorttle O. (2022). Blue marble, stagnant lid: Could dynamic topography avert a waterworld? <i>The Planetary Science Journal</i>, 3, 66.</p> <p><b>Guimond C. M.</b>, Noack L., Ortenzi G., Sohl F. (2021). Low volcanic outgassing rates for a stagnant lid Archean earth with graphite-saturated magmas. <i>Physics of the Earth and Planetary Interiors</i>, 320.</p> <p>Ortenzi G., Noack L., Sohl F., <b>Guimond C. M.</b>, Grenfell J. L., Dorn C., Schmidt J. S., Vulpus S., Katyal N., Kitzmann D., Rauer H. (2020). Mantle redox state drives outgassing chemistry and atmospheric composition of rocky planets. <i>Scientific Reports</i>, 10.</p> <p><b>Guimond C. M.</b> &amp; Cowan N. B. (2019). Three direct imaging epochs could constrain the orbit of Earth 2.0 inside the habitable zone. <i>The Astronomical Journal</i>, 157, 5.</p> <p><b>Guimond C. M.</b> &amp; Cowan N. B. (2018). The direct imaging search for Earth 2.0: Quantifying biases and planetary false positives. <i>The Astronomical Journal</i>, 155, 230.</p>

## Invited talks & seminars

- Astrophysics seminar, **University of Exeter**, UK (2024)
- Geophysical Fluid Dynamics seminar, **ETH Zurich**, CH (2024)
- Geophysics colloquium, **University College London**, UK (2024)
- Exoplanet Geoscience workshop, **International Space Science Institute**, CH (2024)
- Planetary exploration seminar, **Birkbeck University of London**, UK (2023)
- Invited talk, **American Geophysical Union Fall Meeting**, USA (2022)
- CLEVER Planets Seminar Series, **Rice University**, USA (2022)

## Selected service

**Chair**, Oxford Planets Day Meeting (2025)

- Originator of and Chair of organising committee for local scientific meeting.

**Host**, Rocky Worlds Discussions (2024–)

- Responsible for planning and chairing monthly virtual seminar series.

**Social Officer**, Harding Postgraduate Scholarship Programme (2022–2023)

- Responsible for organising large (100-person) social events, including residential trip.