Dr. Claire Marie Guimond
Curriculum vitae

Linacre College
St. Cross Road
Oxford, UK
OX1 3JA

Tel: +44 (0) 1865 272900
email: claire.guimond@physics.ox.ac.uk
ORCID: 0000-0003-1521-5461
Website: clairesworld.github.io

EDUCATION

PhD, Earth Sciences, University of Cambridge — Oct. 2019 – Jul. 2023
Thesis: Inside-out diversity of rocky planets
Supervisors: Prof. Oliver Shorttle & Prof. John F. Rudge
Examiners: Dr. Amy Bonsor & Dr. Sami Mikhail (St Andrews)

MSc, Earth & Planetary Sciences, McGill University (CA) — Sep. 2016 – Aug. 2018
Thesis: The direct imaging search for Earth 2.0
Supervisor: Prof. Nicolas Cowan
Examiner: Prof. Andrew Cumming

BSc, Earth System Science Honours, McGill University (CA) — Sep. 2011 – May 2015
Minor concentration English Literature
Thesis: Controls on sulfur isotope fractionation in deep sea pore water
Supervisor: Prof. Boswell Wing
GPA: 3.7/4.0

APPOINTMENTS

Department of Physics, University of Oxford — Aug. 2023 – present
Postdoctoral Research Associate in Planetary Atmospheres

Department of Earth Sciences, Freie Universität Berlin (DE) — Jan. 2019 – Aug. 2019
Research Assistant

Department of Physics, McGill University (CA) — Sep. 2018 – Dec. 2018
Research Assistant

Department of Natural Resource Sciences, McGill University (CA) — May 2015 – Aug. 2015
Research Assistant

RESEARCH FUNDING

Principal investigator

- *Oxford University Press John Fell Fund* – 'Oxoplanets: Interdisciplinary planetary research at Oxford', PI and sole named investigator (**£5,770**)

Fellowships and scholarships

- *ETH Postdoctoral Fellowship* – independent fellowship (**salary + CHF 10,000 p.a.**; offered Jun. 2025)
- *Brownlee Junior Research Fellowship* – highly-competitive non-stipendiary fellowship, Linacre College, University of Oxford (**sustenance + £800 p.a.**; 2023 – 2026)

- *Harding Distinguished Postgraduate Scholarship* – competitive PhD funding based on independent research proposal (**stipend + £6,000 p.a.**; 2019 – 2023)
- *Natural Sciences and Engineering Research Council of Canada Alexander Graham Bell Graduate Scholarship* – top-ranked national PhD scholarship based on independent research proposal (2019, declined)
- *Natural Sciences and Engineering Research Council of Canada Graduate Scholarship Master's* – nationally competitive MSc scholarship based on independent research proposal (2015 – 2016)

INVITED TALKS

- *Imperial College London*, Department of Earth Sciences & Engineering seminar — May 2025
- *University of Exeter*, Astrophysics group seminar — Nov. 2024
- *ETH Zurich* (CH), Geophysical Fluid Dynamics group seminar — Oct. 2024
- *University College London*, Global Geophysics (GoGo) seminar — Apr. 2024
- *International Space Science Institute* (CH), invited workshop participant — Apr. 2024
- *Birkbeck University of London*, Astrobiology and Planetary Exploration (APEX) seminar — Feb. 2023
- *American Geophysical Union Fall Meeting,* invited talk — Dec. 2022
- *Rice University* (USA), CLEVER Planets Seminar Series — Nov. 2022

TEACHING

Student supervision

- Co-supervisor, Marylou Fournier-Tondreau, DPhil in silicate weathering. (*Oxford*, 2024 – present)
- Supervisor, Ryan Liu, Honour School of Physics 3rd year undergraduate project on exoplanet mantle convection modelling, leading to open source software. Soon to be MMathPhys. (*Oxford*, 2024 – 2025)
- Co-supervisor, Aprajit Mahajan, undergraduate summer research project on theoretical exoplanet crust compositions. Led to poster presentation at Rocky Worlds III meeting. (*Cambridge*, 2022)
- Supervisor, Quantitative Environmental Sciences 3rd year undergraduate course. Led Python practical sessions and conducted small group teaching. (*Cambridge*, 2022 – 2023)
- College advisor, Linacre College. Providing pastoral care, termly meetings. (*Oxford*, 2023 – present)

Demonstrator/teaching assistant

- Demonstrator, Part IA Earth Sciences; Part IB Tectonics & Geodynamics; Part IB Climate, Ocean Circulation and Chemistry; Part IB The Origins of the Earth; Part IB The Form and Dynamics of Earth's Interior; Part III Scientific Computing. (*Cambridge,* 2019 – 2023)
- Demonstrator, 1st year field trips to Arran and to Ketton Quarry. (*Cambridge,* 2019 – 2023)
- Teaching assistant, 3rd year Earth System Modelling; 2nd year Elementary Earth Physics; 1st year Introductory Mineralogy; 1st year Earth System Interactions. (*McGill,* 2016 – 2018)

PROFESSIONAL SERVICE

- *Chair,* Planets Day (interdisciplinary workshop with 100 attendees), Oxford. 2025
- *Conference session convenor*, EPSC-DPS Joint Meeting. 2025
- *Co-organiser and host*, Rocky Worlds Discussions virtual seminar series. 2024 – present
- *Peer reviewer* for Earth & Planetary Science Letters, Icarus, The Planetary Science Journal.

OUTREACH

- 'How to find atmospheres on rocky exoplanets (or not)', public talk at Oxford Café Scientifique 2025
- 'Bare rocks are also good', public talk at Oxford Space Night 2024
- Invited guest on ExoCast, exoplanet science podcast 2024