

THOMAS WILLIAMS

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Department of Earth, Environmental, and Planetary Sciences, 324 Brook Street, Providence, RI, 02912

EDUCATION & QUALIFICATIONS:

- Brown University** Sept. 2021 – Present
PhD Student, Dept. of Earth, Environmental, and Planetary Sciences
- Advisors: Stephen Parman and Alberto Saal
- Brown University** 2025
MSc in Earth, Environmental, and Planetary Science
- Thesis: Lunar volcanic gas cloud chemistry: Constraints from glass bead surface sublimates
 - Advisors: Stephen Parman and Alberto Saal
- University of Oxford, Worcester College** Oct. 2016 – June 2020
MEarthSci Earth Sciences, Dept. of Earth Sciences
- Awarded a First Class Honours master's degree
 - Thesis: “*Damara Leucogranites of the Uis Tin Belt, Northern Namibia: Field Relations, Geochemistry, Origin, and Emplacement*”
 - Supervisor: Laurence Robb

PUBLICATIONS:

- **Williams, T.A.**, Parman, S.W., Saal, A.E., Akey, A.J., Gardener, J.A., and Ogiore, R.C. Lunar volcanic gas cloud chemistry: Constraints from glass bead surface sublimates. *Icarus*, 438, 116607 (2025).

EXPERIENCE:

- Accenture plc** Dec. 2020 - July 2021
Management Consultant Analyst, London, UK
- HR transformation for a large multinational mining firm
- Volcanology and Igneous Petrology Lab** Aug. 2020
Graduate Research Assistant, Department of Earth Sciences, Oxford University
- Magmatic and eruptive evolution of the 1883 caldera-forming eruption of Krakatau
- AfriTin Mining** June 2019 - Aug. 2020
Exploration Geologist Intern, Uis, Namibia
- Geochemical and petrological pegmatite-hosted mineral exploration.
- Volcanology and Igneous Petrology Lab** Aug. 2019 - Sept. 2019
Undergraduate Research Assistant, Department of Earth Sciences, Oxford University
- Magmatic and eruptive evolution of the 1883 caldera-forming eruption of Krakatau

PRESENTATIONS:

- **Williams, T.A.**, Parman, S.W., Saal, A.E., Akey, A.J., and Gardener, J.A. *Inferring Lunar Volcanic Gas Cloud Evolution from Atom Probe and TEM Analyses of Glass Bead Surface Sublimates* (poster), Lunar and Planetary Sciences Conference, March 2024.
- **Williams, T.A.**, Huber, C., Parman, S.W. *Constraining MORB and OIB Volatile Concentrations and Degassing Processes with a New Lattice Boltzmann Method* (oral), American Geophysical Union Fall Meeting, December 2023.
- **Williams, T.A.**, Parman, S.W., Saal, A.E., Ogiore, R.C., Iskakova, M., A.J. Akey, and J.A. Gardner. *Constraining Lunar Volatiles via Nanoanalysis of Pristine Sample Surfaces* (oral), Geochemistry, Mineralogy, and Petrology Seminar, Brown University, Providence, RI, April 2023.
- **Williams, T.A.**, Parman, S.W., Saal, A.E., Ogiore, R.C., Iskakova, M., and A.J. Akey. *Nanoanalysis of Sublimates on Pristine Lunar Orange Glass Beads* (poster), Lunar and Planetary Sciences Conference, March 2023.
- **Williams, T.A.**, Parman, S.W., Saal, A.E. *Lunar Volatiles: Nanoscale Analysis of (de)Sublimates on Lunar Glass Beads* (oral), Geochemistry, Mineralogy, and Petrology Seminar, Brown University, Providence, RI, March 2022.

INVITED PRESENTATIONS:

- **Williams, T.A.**, Parman, S.W., Saal, A.E., Akey, A.J., and Gardener, J.A. *Inferring Lunar Volcanic Gas Cloud Evolution from Atom Probe and TEM Analyses of Glass Bead Surface Sublimates* (oral), New England Society for Microscopy Spring Symposium, Expected April 2024.

NON-REFEREED PUBLICATIONS:

- **Williams, T.A.**, Parman, S.W., Saal, A.E., Akey, A.J., and Gardener, J.A. Inferring Lunar Volcanic Gas Cloud Evolution from Atom Probe and TEM Analyses of Glass Bead Surface Sublimates. *Lunar Planet. Sci. LV*, 1574 (abstract).
- D'Hondt-Gorbea, C.M., Khan, D., **Williams, T.A.**, Parman, S.W. Lunar Volcanic Degassing in Multi- Component Systems and Implications for Volatile Element Speciation. *Lunar Planet. Sci. LV*, 2622 (abstract).
- **Williams, T.A.**, Parman, S.W., Saal, A.E., Ogliore, R.C., Iskakova, M., and Akey, A.J. Nanoanalysis of Sublimates on Pristine Lunar Orange Glass Beads. *Lunar Planet. Sci. LIV*, 1441 (abstract).

GRANTS, FELLOWSHIPS, AND AWARDS:

2023	Conference Travel Grant , Brown University (\$650)
2023	Lipman Research Award , Geological Society of America (\$2500)
2023	Conference Travel Grant , Graduate Student Council, Brown University (\$100)
2022	Conference Travel Grant , Brown University (\$650)
2021-2022	University Fellowship , Brown University
2019	Burdett-Coutts Foundation Travel Grant , Oxford University (£650)
2019	Research Travel Grant , Worcester College, Oxford University (£400)
2018	Research Travel Grant , Worcester College, Oxford University (£400)
2016-2020	Scholar of Worcester College for academic performance, Oxford University (£600)

OUTREACH AND SERVICE:

Geochemistry Seminar Organiser <ul style="list-style-type: none">• Schedule and host speakers for the Brown DEEPS weekly Geochemistry seminar.	Spring 2023
DEEPS CORES <ul style="list-style-type: none">• Creating Earth Science lesson plans for high school students.• Assisting students with writing Summer@Brown applications.	2021 - Present
UNIQ Summer School <ul style="list-style-type: none">• Helping students from diverse backgrounds to make successful applications to Oxford.	June 2019

MEDIA:

- “Why the Moon shimmers with shiny glass beads” (Chris Woolston, the ampersand)

PROFESSIONAL DEVELOPMENT:

Sheridan Center Teaching Seminar , Reflective Teaching, Brown University, RI	Fall 2022
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MENTORING:

D'Hondt-Gorbea, C.M. , Brown University, RI	2023 - 2024
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TEACHING EXPERIENCE:

Teaching Assistant , EEPS 0010. Face of the Earth, Brown University, RI	Spring 2025
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