

Gustavo Marchant Allende (he/him/his/él)

PhD Student in Earth and Planetary Sciences at Purdue University
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RESEARCH INTERESTS

High-Temperature Geochemistry – Planetary Science – Experimental Petrology – Lunar Geology – Earth's Mantle

EDUCATION

2025 – Now **Ph.D. in Earth and Planetary Sciences**, Purdue University, *West Lafayette, IN, USA*

2021 – 2025 **B.A. in Geology, magna cum laude, minor in Statistics**, Macalester College, *St. Paul, MN, USA*

RESEARCH EXPERIENCE

2025 – Now **Graduate Research Assistant**, Purdue University

Department of Earth, Atmospheric, and Planetary Sciences (EAPS), advised by Dr. Kelsey Prissel

2024 **Summer Research Intern (MSRP)**, Massachusetts Institute of Technology (MIT)

Department of Earth, Atmospheric, and Planetary Sciences (EAPS), advised by Dr. Nicole Xike Nie

2023 – 2025 **Undergraduate Research Assistant**, Macalester College

Department of Geology, advised by Dr. Emily C. First

TEACHING EXPERIENCE

2025 **GEOL165 – History & Evolution of the Earth**, Lab Assistant, Macalester College

2024 **GEOL160 – Dynamic Earth & Global Change**, Lab & Teaching Assistant, Macalester College

2023 – 2024 **STAT112 – Introduction to Data Science**, Teaching Assistant, Macalester College

CONFERENCE ABSTRACTS

† oral, ‡ poster

‡ **G. Marchant Allende**, N.X. Nie, Z. Lin, E. First (2024). *Rock-melt diffusion in the upper mantle via a peridotite xenolith from the Tariat Region, Mongolia*. 51st National Diversity in STEM Conference, Phoenix AZ.

† **G. Marchant Allende**, N.X. Nie, Z. Lin (2024). *Rock-melt diffusion in the upper mantle via a peridotite xenolith from the Tariat Region, Mongolia*. 2024 MIT Summer Research Program Closing Ceremony, Cambridge MA.

‡ **G. Marchant Allende**, E. First, B. Welsch (2023). *Orange glass from the Moon: new perspectives on olivine crystallization from Ti-rich magma*. 50th National Diversity in STEM Conference, Portland OR.

HONORS, AWARDS, AND SCHOLARSHIPS

2025 – 2029 **Ross Fellowship**, Purdue University

2025 **Phi Beta Kappa Honors Society member**, Macalester College chapter

2025 **Hugh S. Alexander Endowed Prize**, Department of Geology, Macalester College

2024 **Outstanding Poster Presentation Award, Geology Section**, 2024 NDiSTEM Conference

2021 – 2025 **Dean's List for Academic Excellence**, Macalester College

2021 – 2025 **Davis United World College Scholar**, Davis UWC Foundation

2019 – 2021 **United World College Scholar**, UWC Robert Bosch College

SERVICE, MENTORSHIP, AND OUTREACH

2024 – 2025 **SACNAS**, Macalester College chapter, founding member.
2024 – 2025 **GeoClub**, Macalester College, co-president.
2021 – Now **United World Colleges (UWC)**, National Committee of Chile, social media team.

SOCIETY MEMBERSHIPS

AGU American Geophysical Union
GSA Geological Society of America
SACNAS Society for the Advancement of Chicanos/Hispanics and Native Americans in STEM

Updated 27th July, 2025