

Samuel B. Harris | Ph.D. Student

Department of Earth, Atmospheric, and Planetary Science

Purdue University

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EDUCATION

Ph.D. Earth, Atmospheric, and Planetary Science

Expected 2029

Purdue University, West Lafayette, IN

B.S. Geosciences: Geology Concentration

2024

Florida Atlantic University, Boca Raton, FL

RESEARCH

Graduate Research Assistant

2024-Current

Purdue University, West Lafayette, IN

Advisor: Dr. Ali Bramson

- Currently investigating how to best leverage radar observations and other remote sensing techniques to improve our understanding of near-surface conditions on Earth, Mars, and other planetary bodies.

Undergraduate Research Assistant

2023-2024

Florida Atlantic University, Boca Raton, FL

Advisor: Dr. Xavier Comas

- Investigated subsurface biogenic gas production within peatland environments through a combination of field observations and laboratory experiments.

Field Research Technician

2023

Florida Atlantic University, Boca Raton, FL

- Conducted geophysical and hydrogeologic field research as part of an NSF EAR Hydrological Science project to investigate the hydrological dynamics of a series of peat bogs in northern Maine.

Field Research Technician

2023

Florida Atlantic University, Boca Raton, FL

- Conducted biogeochemical field research as part of an NSF GP-IMPACTS project to investigate the impact of dynamic biogenic gas production in peat on the geomorphology of the Everglades.

AWARDS

George Washington Carver Fellowship	2024
Purdue University Presidential Excellence PhD Award	2024
Purdue College of Science Graduate Student Travel Award	2024

CONFERENCE PRESENTATIONS

Harris, S.B., Lalich, D.E, Bramson, A.M. (2026) Ku-Band Radar Observation of the Namib Sand Sea as an Analog to Titan's Dunes, *57th LPSC*

Harris, S.B., McGlasson, R. A., Bramson, A. M. (2025), Effects of thin layers on radar observations of the Martian polar layered deposits: An integrated approach using experiments, simulations, and spacecraft observations, *EPSC-DPS 2025*

Harris, S. B., McGlasson, R. A., Bramson, A. M. (2025), Radar Reflections of Packets of Sub-Resolution Dust Layers Within Ice in Martian Analog Experiments, *56th LPSC*.

SERVICE

Purdue Graduate Student Government	2025
<i>Grant Review and Allocations Committee</i>	

TECHNICAL SKILLS

ArcGIS, ENVI, GPRMax, GPRPy, MatLab, Python, XFtd