

# Samuel B. Harris | Ph.D. Student

Department of Earth, Atmospheric, and Planetary Science

Purdue University

**`harr1273@purdue.edu`**

## EDUCATION

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### **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

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### **Graduate Research Assistant**

*2024-Current*

*Purdue University, West Lafayette, IN*

Advisor: Dr. Ali Bramson

- Currently investigating how to best leverage radar observations to improve our understanding of subsurface 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

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

## CONFERENCE PRESENTATIONS

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**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, *56<sup>th</sup> LPSC*.

## SERVICE

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

## SKILLS

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ArcGIS, ENVI, GPRMax, GPRPy, Python, XFtd