**EDUCATION**

*Purdue University* | Lafayette, IN Expected Graduation: 2025

PhD Planetary Science | Advisor: Dr. Mike Sori GPA: 3.98

Thesis: Volcanic processes on icy bodies in the solar system

*North Carolina State University* | Raleigh, NC May 2020

B.S. Geology, *magna cum laude* GPA: 3.84

**HONORS AND AWARDS**

Ross-Lynn Research Scholars Grant 2021-2022

NSF GRFP Honorable Mention 2021

Earth, Atmospheric, and Planetary Sciences Levandowski Award 2021

Purdue University Ross Fellowship 2020

Marine, Earth, and Atmospheric Sciences Honors Program 2018-2020

North Carolina State University Scholars Program 2016-2020

North Carolina State University Goodnight Scholarship 2016

**RESEARCH EXPERIENCE**

*Research Assistant* August 2020-Current

Advisor: Dr. Mike Sori

Project Title: Endogenically sourced volatiles on Charon and other Kuiper Belt Objects

*Planetary Research Project Lead* August 2019-May 2020

Advisor: Dr. Paul Byrne

Project Title: Flank terrace structures on small Mars volcanoes

*Geology Intern at the North Carolina Museum of Natural Sciences* 2017-2020

Advisor: Dr. Chris Tacker

Project Title: Microdiamonds sourced from an unknown Lamproite in rural North Carolina

**PUBLICATIONS**

**[1] Menten, S. M.**, M. M. Sori, and A. M. Bramson (2022). *Endogenically sourced volatiles on Charon and other Kuiper Belt Objects.* Nature Communications **13***, 4457*.

**SERVICE**

Graduate Student Association Treasurer May 2022-Current

Purdue Outreach Committee Member August 2020-May 2022

**CONFERENCE PARTICIPATION**

**[1] Menten, S. M.**, A. M. Bramson, and M. M. Sori (2021), *Cryovolcanically sourced methane on Charon*, LPSC 52nd, 1047.

**[2] Menten, S. M.**, M. M. Sori, and A. M. Bramson (2022), *Tests of an endogenic origin for Mordor Macula on Charon*, LPSC 53rd, 2008.

[3] Schaefer, M., Aurora, E., **S. M. Menten**, A. Rudolph and B. Horgan (2022), *Identification and classification of supervolcanoes in Arabia Terra on Mars*, LPSC 53rd, 2531.

[4] **Menten, S. M.** et al. A cryovolcanic origin for Mordor Macula on Charon. American Geophysical Union P45C-2449 (2021).

**TEACHING EXPERIENCE**

Teaching Assistant Fall 2022

*Earth through time*