JOHNPAUL SLEIMAN

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Summary

PhD Student at the University of Rochester studying Geophysics. A confident presenter, business owner, and entrepreneur in diverse fields. A capable research fellow with over five years of applied research in physics and geochemistry. Skills in problem-solving, watershed management, data processing, and leadership developed through tutoring courses in geology and astronomy.

EDUCATION

University of Rochester, Rochester, NY
PhD in Geophysics expected May 2026

Advisor: Rachel Glade

Furman University, Greenville, SC **May 2021**
B.S. in Physics
B.S. in Earth and Environmental Science

Advisor: Christopher Romanek
Thesis: "Magnesian Calcite as a Paleoenvironmental Indicator"

Relevant Coursework (Current and Past): *Astrophysics, Climate Systems, Environmental Data Science Analysis, Environmental Science, Geomorphology, GIS, Incompressible Fluid Mechanics, Mineralogy and Petrology I & II, Physics of the Atmosphere, Quantum Mechanics, Remote Sensing, Sediment Transport, Thermo-Chemistry, Thermo-Physics, Ocean Climate Systems, and Watershed hydrology.*

EXPERIENCE

NASA Space Grant Research Recipient with Dr. Christopher Romanek **May 2020 – May 2021**
Undergraduate Research
- Synthesized calcium carbonate under unique environmental conditions.
- Installed, calibrated and analyzed samples on Prodigy 7 ICP-OES

Furman Fellows Summer Research with Dr. David Moffett **June 2019 – August 2019**
Undergraduate Research
- Conducted data analysis on Very Large Array radio data (4-Band, P-Band, and L-Band)
- Conducted data analysis on Green-Bank radio data (C-Band)

Class TA and Tutor, University of Rochester, Rochester, NY **August 2021 – May 2022**
Department of Earth and Environmental
(Intro to water systems (Fall 21) & Ocean chemistry (Spring 22))
- Assisted 25 students in performing lab exercises
- Regularly hosted three, 1-hour long, office hours weekly
- Graded bi-weekly problem sets and provided feedback

Jet Propulsion Laboratory Solar System Ambassador, Greenville, SC **December 2019 - Present**
Public relations and public speaker

Graduate Student Department Representative, Rochester, NY **August 2022 - Present**
Department student and professor relations and community builder

Lab TA and Tutor, Furman University, Greenville, SC **August 2018 – May 2021**
Department of Physics
- Wrote, directed, and collaborated 3D printing, Astronomy and General Physics 1 & 2 labs.

Lab TA and Tutor, Furman University, Greenville, SC **August 2019 – May 2021**
Department of Earth and Environmental
- Assisted students identifying common silicate and non-silicate minerals with the petrographic microscope
- Prepared thin section and hand specimens for geology classes

Furman University Planetarium, Furman University, Greenville, SC **August 2018 – May 2021**
Operated, conducted, and directed Planetarium talks and shows
- Ran and created Planetarium shows for various classes.

Furman Forensic Scholarship, Greenville, SC **January 2018 – May 2021**
Founder and director of High School scholarship
- In charge of forming and maintaining a scholarship for high school students for Speech and Debate.
- Funded serval high school student each year to attend the Speech and Debate National Tournament.

Cork and Tap, Greenville, SC **August 2019 – April 2021**
Manager and business owner
- Creating profits and loss margins
- Cooperate Budgeting

AWARDS & SCHOLARSHIPS

Furman Bell Tower Scholarship recipient	Fall 2017 to May 2021
Furman's Deans list	Fall 2018 to May 2021
General Physics II award (*Furman Department of Physics)*	August 2018
Fluor Scholarship Program Scholarship	August 2018
Furman Fellows Summer Research Recipient	June 2019
NASA Space Grant recipient	January 2020
Sigma Pi Sigma Inductee (*Furman Department of Physics)*	January 2020
Quaternion Club Inductee (*Furman Secret Honor Society)*	April 2021
Wallace C. Fallaw Outstanding Senior Award (*Furman Department of Earth Science*)	January 2020

CONFERENCE ABSTRACTS

Sleiman, JohnPaul and Glade, Rachel. (2022) Lobate features on Mars exhibit same scaling as terrestrial solifluction patterns. *AGU 2022 Fall Meeting.*

Glade, R,. **Sleiman, J.,** Fratkin, M., Pouragha, M., Seiphoori, A., and Rowland J., (2021) The enigma of lobate soil patterns: Bridging scales, materials, and worlds. *AGU 2021 Fall Meeting*

Sleiman, JohnPaul (2021) Magnesian Calcite as a Paleoenvironmental Indicator. *Virtual Furman Engaged 2021*.

Sleiman, J., and Romanek, C. (2021) Magnesian Calcite as a Paleoenvironmental Indicator. *National Conference on Undergraduate Research 2021*

Sleiman, J., and Romanek, C. (2021) Magnesian Calcite as a Paleoenvironmental Indicator. *GSA 2021 Southeastern Section Meeting 2021 meeting #70*

Pannuti, T., Van Daniker, R. E, Lacey, C., Moffett, D., Edenton, M., **and Sleiman, J.** (2020) New X-ray and Radio Observations of the Synchrotron X-ray-Dominated Galactic Supernova Remnant G32.4+0.1. *American Astronomical Society meeting #236*.

Van Daniker, R. E., Pannuti, T., Moffett, D., Edenton, M., **Sleiman, J.,** and Lacey, C. (2020) An X-ray and Radio Analysis of the Peculiar Galactic Supernova Remnant G28.6-0.1. *American Astronomical Society meeting #236*.

Sleiman, J., Edenton, M., Van Daniker, E., Deneau, T., Pannuti, T., Moffett, D., and Lacey, C. (2020) L-Band and P-Band Observations of Galactic Supernova Remnants with Synchrotron X-Ray Dominated Spectra. *Virtual Furman Engaged 2020*.

Edenton, M., **Sleiman, J.,** Van Daniker, E., Deneau, T., Pannuti, T., Moffett, D., and Lacey, C. (2020) L-Band and P-Band Observations of Galactic Supernova Remnants with Synchrotron X-Ray Dominated Spectra. *American Astronomical Society meeting #235*.

SKILLS

ARCGIS (Desktop and Pro), ICP-OES, XRD, SEM, Public Speaking, Production (Sound and Lighting), Watershed Management, Argumentative and Analytical Writing, Data Collection/Interpretation, Python, C++, Casa, Mathematica, DS9, Inventory and Sales.