

Ian T. W. Flynn, Ph.D.

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EDUCATION

University of Pittsburgh — Pittsburgh, PA <i>Ph.D. in Geology and Environmental Science</i> Thesis: Modeling of Volcanic Flow Processes on Earth, Mars, and Venus Advisor: Michael Ramsey · External Advisor: David Crown	<i>Aug 2017 – Aug 2022</i>
Rider University — Lawrenceville, NJ <i>B.S. in Geoscience · B.S. in Marine Science</i>	<i>Aug 2013 – May 2017</i>

PROFESSIONAL APPOINTMENTS

Research Assistant Professor , University of Pittsburgh Department of Geology and Environmental Science	<i>Sep 2024 – Present</i>
Postdoctoral Associate , University of Idaho Department of Earth and Spatial Sciences	<i>Aug 2023 – Aug 2024</i>
Postdoctoral Associate , University of Pittsburgh Department of Geology and Environmental Science	<i>Sep 2022 – Aug 2024</i>
Teaching Fellow / Graduate Student Researcher , University of Pittsburgh Department of Geology and Environmental Science	<i>Aug 2017 – Aug 2022</i>
Teaching Assistant , Rider University Department of Geoscience, Environmental, and Marine Science	<i>Aug 2016 – May 2017</i>
Research Assistant , Rider University Department of Geoscience, Environmental, and Marine Science	<i>May 2016 – May 2017</i>

PEER-REVIEWED PUBLICATIONS

8 first-author and 6 co-author. * indicates article received media coverage; ° indicates a student first author.

1. ° Cooper, E. G. K., **Flynn, I. T. W.**, Peters, S. I., Benson, E. W., Murphy, S. B., & Sterling, E. D. (2026). Volcanism at Piton de la Fournaise as an analog for Chloris Mons, Venus. *Journal of Geophysical Research: Planets*, 131, e2026JE009756. <https://doi.org/10.1029/2026JE009756>
2. * **Flynn, I. T. W.**, Bhushan, B., Hendersen, S., Corradino, C. C., Ramsey, M. S., & Collins, E. R. (2026). Satellite Data Synergy for Volcano Monitoring: The 2022 Mauna Loa Eruption. *Journal of Volcanology and Geothermal Research*. <https://doi.org/10.1016/j.jvolgeores.2026.108603>
3. * **Flynn, I. T. W.**, & Peters, S. I. (2025). The usefulness of NotebookLM's Audio Overview for planetary scientists. *Perspectives of Earth and Space Scientists*, 6, e2025CN000282. <https://doi.org/10.1029/2025CN000282>
4. * D'Incecco, P., Filiberto, J., Garvin, J. B., Arney, G. N., Getty, S. A., Kohler, E., ... **Flynn, I. T. W.**, ... (2025). The "Analogues for VENus' Geologically Recent Surfaces" (AVENGERS) initiative: a comprehensive investigation for identifying and analyzing recently active volcano-tectonic areas of Venus through a comparative study with terrestrial analogs. *Journal of Geophysical Research: Planets*, 130, e2024JE008675. <https://doi.org/10.1029/2024JE008675>
5. * Trussell, A. R., O'Rourke, J. G., Williams, D. A., **Flynn, I. T. W.**, Black, B. A., & Borrelli, M. E. (2025). The importance of carbonate lavas in outgassing Venus' modern-day atmosphere. *Science Advances*, 11, 1621. <https://doi.org/10.1126/sciadv.adw1621>
6. ° Russo, F. P., **Flynn, I. T. W.**, Peters, S. I., & Ramsey, M. S. (2025). The effects of measured slope on Martian lava flow modeling. *Icarus*, 116544. <https://doi.org/10.1016/j.icarus.2025.116544>
7. **Flynn, I. T. W.**, Williams, D. B., & Ramsey, M. S. (2024). Quantifying Volumes of Volcanic Deposits Using Time-Averaged ASTER Digital Elevation Models. *Science of Remote Sensing*, 100179. <https://doi.org/10.1016/j.srs.2024.100179>
8. * **Flynn, I. T. W.**, & Rader, E. (2024). Evidence of a Martian spatter cone south of Pavonis Mons. *Icarus* (cover issue), 424, 116286. <https://doi.org/10.1016/j.icarus.2024.116286>

9. * Flynn, I. T. W., Chevrel, M. O., & Ramsey, M. S. (2023a). Adaptation of a thermorheological lava flow model for Venus conditions. *Journal of Geophysical Research: Planets*, 128, e2022JE007710. <https://doi.org/10.1029/2022JE007710>
10. Flynn, I. T. W., Chevrel, M. O., Crown, D. A., & Ramsey, M. S. (2023b). The effects of digital elevation model resolution on the PyFLOWGO thermorheological lava flow model. *Environmental Modelling & Software*, 167, 105768. <https://doi.org/10.1016/j.envsoft.2023.105768>
11. * Seaton, K. M., Gyalay, S., Stucky de Quay, G., Burnett, E. R., Denton, C. A., Doerr, B., Ebadi, K., Eckert, S., Flynn, I. T. W., Honniball, C. I., Hume, S., Kling, C. L., Marohnic, J. C., Milton, J., Mondro, C. A., Nuno, R. G., Rooney, C. M., Strauss, B. E., Nash, A., & Scully, J. E. C. (2023). Astrobiology eXploration at Enceladus (AXE): A New Frontiers Mission Concept Study. *The Planetary Science Journal*, 4(6), 116. <https://doi.org/10.3847/PSJ/acd119>
12. Flynn, I. T. W., Crown, D. A., & Ramsey, M. S. (2022). Determining Emplacement Conditions and Vent Locations for Channelized Lava Flows Southwest of Arsia Mons. *Journal of Geophysical Research: Planets*, 127. <https://doi.org/10.1029/2022JE007467>
13. Flynn, I. T. W., & Ramsey, M. S. (2020). Pyroclastic Density Current Hazard Assessment and Modeling Uncertainties for Fuego Volcano, Guatemala. *Remote Sensing*, 12(17), 2790. <https://doi.org/10.3390/rs12172790>
14. * Ramsey, M. S., & Flynn, I. T. W. (2020). The Spatial and Spectral Resolution of ASTER Infrared Image Data: A Paradigm Shift in Volcanological Remote Sensing. *Remote Sensing*, 12(4), 738. <https://doi.org/10.3390/rs12040738>

MANUSCRIPTS IN REVIEW / REVISION

- Flynn, I. T. W., Crown, D. A., Ramsey, M. S. & Smrekar, S. E., Observable Signatures of Active Venusian Volcanism Utilizing Channelized Lava Flow, *Nature Communications* (in review).
- Flynn, I. T. W., Williams, D. B., Collins, E. R., Trussell, A., & O'Rourke, J. Spectral Detectability of Carbonatite Volcanism on Venus: Implications for Future Missions. *Icarus* (in revision).
- Flynn, I. T. W., & Rader, E. Construction Processes of Small Volcanic Cones on Venus. *Communications Earth & Environment* (in review).
- Flynn, I. T. W., Hyman, D., & Rader, E. How Variations in Erupting Crystal Content Affect Lava Flow Models. *Geochemistry, Geophysics, Geosystems* (in review).
- Peters, S. I., Tsang, S. W. R., Gor, M., & Flynn, I. T. W. A review of thermomechanical erosion in lava emplacement within the inner Solar System. *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*, special issue (in review).
- ° Copich, E. J., Flynn, I. T. W., & Williams, D. B. Identification of Martian Scoria Cones in Valles Marineris Using Deep Learning. *Icarus* (in revision).
- Trussell, A., O'Rourke, J., Flynn, I. T. W., & Williams, D. Sinuous Rilles as a Mantle Thermometer for Venus. *Journal of Geophysical Research: Planets* (in review).

BOOK CHAPTER

- Flynn, I. T. W., Smrekar, S. E., Michaut, C., Ganesh, I., & O'Rourke, J. Volcanism on Venus. In *The Encyclopedia of Volcanoes* (in press).

GRANTS & FUNDING

Summary: ~\$900K in funded awards (Co-I / Graduate Researcher on NASA grants; PI on smaller awards). Amounts shown are total project award values; roles are noted per entry.

Funded

- | | |
|---|-------------|
| Solar System Workings (SSW), NASA | 2024 – 2027 |
| “Modeling the Open-Channel Lava Flows of Venus: Constraining Emplacement Conditions, Cooling Rates, and their Implications for Future Orbital Data.” PI: M. Ramsey · Role: Co-I · \$530,390 | |
| Venus Exploration Analysis Group (VExAG) Travel Grant | 2024 |
| PI: I. T. W. Flynn · \$2,000 | |
| Solar System Workings (SSW), NASA | 2019 – 2023 |
| “Placing terrestrial constraints on past Mars lava flow eruption conditions.” PI: M. Ramsey · Role: Graduate Student Researcher · \$366,015 | |

“Modeling lava flow effusion rates and vent locations: What can we learn about the last phases of extrusive volcanism on Mars?” PI: I. T. W. Flynn · \$2,000

Under Review

Solar System Science (SSS), NASA

Submitted

“Constraining the Depth of Subsurface Water and Ice: Mapping Martian Maars.” PI: I. T. W. Flynn

INVITED PRESENTATIONS

- **Spatial Distribution and Morphology of Venusian Channelized Lava Flows.** VExAG, Oct 2025.
- **Lava Flow Emplacement Across the Solar System.** Connecticut College, Oct 2025.
- **An Overview of Venusian Volcanism and Upcoming Missions.** Middlebury College, Jan 2025.
- **Volcano on Mars: Researcher Uncovers Exciting Discovery.** Boise State Public Radio (NPR), Nov 2024.
- **Modeling Venusian Lava Flows: Implications for Future Missions.** University of Idaho, Sep 2023.
- **The History and Diversity of Volcanism on the Red Planet.** Carnegie Science Center, Apr 2023.

EXTENDED CONFERENCE ABSTRACTS

1. Jones, L. S. G., & **Flynn, I. T. W.** Measuring the Thickness of Channelized Lava Flows on Venus Using Magellan Stereo-Derived Topography. VExAG 2026 (oral).
2. **Flynn, I. T. W.**, Crown, D. A., Smrekar, S. E., & Ramsey, M. S. The Potential for Detecting Future Eruptions on Venus by Modeling the Channelized Lava Flows of the Past. VExAG 2026 (oral).
3. Trussell, A., O'Rourke, J., Williams, & **Flynn, I. T. W.** Sinuous Rilles as a Mantle Thermometer for Venus: Erosion by Komatiite Lavas and Spatial Clustering Around Coronae. 57th Lunar Planet. Sci. Conf., abs. #1363, 2026.
4. D'Incecco, P., Filiberto, J., Arney, G. N., ... **Flynn, I. T. W.**, ... Volcanic markers for assessing planetary habitability: insights from the AVENGERS Initiative for HWO. HWO25 Proceedings, 2025.
5. Trussell, A., O'Rourke, J., Williams, & **Flynn, I. T. W.** New Global Map of Sinuous Rilles on Venus and Models of Their Erosion. VExAG 2025.
6. O'Rourke, J., Trussell, A., Williams, **Flynn, I.**, Black, B., & Borrelli, M. Formation of Lava Channels on Venus: Implications for Eruption Properties and Atmospheric Outgassing. EPSC-DPS Joint Meeting 2025.
7. **Flynn, I. T. W.**, Crown, D. A., Ashley, K. T., & Ramsey, M. S. Channelized Lava Flows on Venus: New Insights into Distribution, Morphology, Rheology, and Emplacement Processes. 56th Lunar Planet. Sci. Conf., abs. #1575, 2025 (oral).
8. Copich, E. J., **Flynn, I. T. W.**, & Williams, D. B. Automatic Detection of Martian Scoria Cones Using Deep Learning. 56th Lunar Planet. Sci. Conf., abs. #2292, 2025 (poster).
9. **Flynn, I. T. W.**, Ganesh, I., Crown, D. A., & Ramsey, M. S. Surface and Subsurface Characteristics of Tyrrhenus Mons, Mars. 55th Lunar Planet. Sci. Conf., abs. #1251, 2024 (poster).
10. **Flynn, I. T. W.**, & Rader, E. Morphologic Similarities Between the Fagradalsfjall Spatter Cone, Iceland, and a Martian Vent South of Pavonis Mons. 55th Lunar Planet. Sci. Conf., abs. #1254, 2024 (poster).
11. Ganesh, I., **Flynn, I. T. W.**, Akins, A., Byrne, P. K., & Carter, L. M. Lava Flow Cooling on Venus and Implications for Microwave Emission. 55th Lunar Planet. Sci. Conf., abs. #1354, 2024 (oral).
12. **Flynn, I. T. W.**, Chevrel, M. O., Crown, D. A., & Ramsey, M. S. Mapping and Modeling Venusian Lava Flows: Implications for Future Missions. 54th Lunar Planet. Sci. Conf., abs. #1151, 2023 (oral).
13. **Flynn, I. T. W.**, Crown, D. A., & Ramsey, M. S. Emplacement Conditions and Vent Locations for the Channelized and Partially Buried Lava Flows Southwest of Arsia Mons. 53rd Lunar Planet. Sci. Conf., abs. #1261, 2022 (poster).
14. Russo, F. P., **Flynn, I. T. W.**, & Ramsey, M. S. The Impact of Slope Variability on the Modeling of Martian Lava Flows. 53rd Lunar Planet. Sci. Conf., abs. #1410, 2022 (poster).
15. Seaton, K. M., Burnett, E. R., Denton, C. A., Doerr, B., Ebadi, K., Eckert, S., **Flynn, I. T. W.**, Gyalay, S., Honniball, C. I., Hume, S., Kling, C. I., Marohnic, J. C., Milton, J., Mondro, C. A., Nuno, R. G., Rooney, C. M., Strauss, B. E., Stucky de Quay, G., Nash, A., & Scully, J. Mission Implementation for a New Frontiers Mission Concept: The Astrobiology Exploration at Enceladus (AXE). 53rd Lunar Planet. Sci. Conf., abs. #2168, 2022 (poster).
16. Seaton, K. M., Burnett, E. R., Denton, C. A., Doerr, B., Ebadi, K., Eckert, S., **Flynn, I. T. W.**, Gyalay, S., Honniball, C. I., Hume, S., Kling, C. I., Marohnic, J. C., Milton, J., Mondro, C. A., Nuno, R. G., Rooney, C. M., Strauss, B. E., Stucky de Quay, G., Nash, A., & Scully, J. Science Objective for a Mission Concept to Enceladus: The Astrobiology Exploration at Enceladus (AXE). 53rd Lunar Planet. Sci. Conf., abs. #2152, 2022 (poster).

17. **Flynn, I. T. W.**, Crown, D. A., & Ramsey, M. S. The effects of DEM resolution on planetary thermorheological lava flow modeling. 52nd Lunar Planet. Sci. Conf., abs. #1305, 2021 (virtual poster).
18. **Flynn, I. T. W.**, & Ramsey, M. S. Searching for the hidden vent locations for the lava flows southwest of Arsia Mons. 51st Lunar Planet. Sci. Conf., abs. #1676, 2020 (virtual poster).
19. **Flynn, I. T. W.**, & Ramsey, M. S. Thermorheological modeling of channelized lava flows on Earth and Mars. 50th Lunar Planet. Sci. Conf., abs. #1452, 2019 (poster).

CONFERENCE PRESENTATIONS

1. Birnbaum, J., Llewellyn, E. W., **Flynn, I. T. W.**, Hewett, J., Hinton, E., Lev, E., & Sellier, M. Identifying numerical model limitations from blind inversion of analogue and small-scale experiments. What Makes a Geoscience Model Useful? 2025.
2. **Flynn, I. T. W.**, Crown, D. A., Ramsey, M. S., & Smrekar, S. E. A Global Catalog, Spatial Analysis, and Morphometry of Venusian Channelized Lava Flows. GSA 2025 (oral).
3. **Flynn, I. T. W.**, Collins, E. R., & Williams, D. B. Will Upcoming Missions be able to Determine the Composition of Canali? GSA 2025 (oral).
4. Peters, S. I., **Flynn, I. T. W.**, Bhatti, N., Goddard, Z. E., Mahmoud, D., & Rodriguez, A. X. A Catalog of Volcanic Vents in the Elysium Volcanic Province, Mars. GSA 2025 (oral).
5. Cooper, E. G. K., **Flynn, I. T. W.**, Peters, S. I., Benson, E. W., Murphy, S. B., & Sterling, E. D. Piton de la Fournaise as a Terrestrial Analog to Chloris Mons, Venus. GSA 2025 (poster).
6. Reeder, S., & **Flynn, I. T. W.** Effusive and Explosive Properties of a Volcanic Vent East of Olympus Mons, Mars. NCUR 2025 (poster).
7. **Flynn, I. T. W.**, & Rader, E. The importance and limitations of measuring lava crystal content for hazard modeling and a possible solution. AGU 2024 (oral).
8. Trussell, A. R., O'Rourke, J. G., **Flynn, I. T. W.**, Borrelli, M. E., & Williams, D. A. Erosion of Canali by Carbonatite Lavas: A Potential Major Source of CO₂ in Venus's Modern Atmosphere. AGU 2024 (oral).
9. Harring, P., Beauharnois, R., Peters, S. I., & **Flynn, I. T. W.** Observed Differences in Martian Channelized Lava Flow Rheologies and Emplacement. AGU 2024 (poster).
10. Filiberto, J., D'Incecco, P., Garvin, J. B., Arney, G. N., et al. (incl. **Flynn, I.**). AVENGERS (Analog for VENUS' Geologically Recent Surfaces) initiative: an investigation of terrestrial analog active volcano-tectonic areas for Venus exploration. GSA 2024 (oral).
11. Buczkowski, D., Gregg, T., D'Incecco, P., **Flynn, I.**, Grosfils, E., & the VExAG Venus Mapping SAW. Status of Venus Quadrangle Mapping. GSA 2024 (poster).
12. D'Incecco, P., Gorinov, D., Zelenyi, L., et al. (incl. **Flynn, I.**). Active Volcanoes of Kamchatka as Suitable Terrestrial Analogs for Future Landing Missions and for Change Detection Analysis on Venus. 45th COSPAR 2024.
13. **Flynn, I. T. W.**, Bhushan, S., Thompson, J. O., & Ramsey, M. S. Satellite data synergy for volcanic monitoring: The Mauna Loa 2022 eruption. Cities on Volcanoes Mtg. 2024 (oral).
14. Ganesh, I., **Flynn, I. T. W.**, Akins, A., Byrne, P. K., & Carter, L. M. On the detectability of young lava flows on Venus using orbital microwave radiometry. AGU 2023 (oral).
15. **Flynn, I. T. W.**, Crown, D. A., & Ramsey, M. S. Mapping and Modeling Venusian Channelized Lava Flows in Preparation for Future Mission Data. GSA 2023 (oral).
16. Ramsey, M. S., Thompson, J. O., **Flynn, I. T. W.**, & Williams, D. B. Lava flow emplacement processes: Automating hazard modeling in the next era of orbital infrared sensors. GSA 2023 (oral).
17. **Flynn, I. T. W.**, & Ramsey, M. S. Emplacement Conditions, Thermophysical Properties, and Morphology of Martian Channelized Lava Flows. THEMIS Science Team Mtg. 2023 (oral).
18. **Flynn, I. T. W.**, & Ramsey, M. S. How Do Channelized Lava Flows Propagate in the Venusian Environment? GSA NE Regional Mtg. 2022 (oral).
19. **Flynn, I. T. W.**, Williams, D. B., & Ramsey, M. S. Calculating lava flow volumes using orbital stereo data. AGU Fall Mtg. 2021 (oral).
20. **Flynn, I. T. W.**, & Schwimmer, R. A. Past and Future Rates of Stream Erosion Along Crosswick Creek, Mercer County, NJ. GSA NE Regional Mtg. 2017 (poster).

SYNERGISTIC RESEARCH ACTIVITIES

Affiliated Scientist, THEMIS instrument (NASA) *Sep 2018 – Present*
Use the Thermal Emission Imaging System (THEMIS) on the Mars Odyssey mission to map lava flows and explosive volcanic deposits and determine emplacement processes.

Affiliated Scientist, ASTER instrument (NASA) *Sep 2019 – Present*
Use the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) on the Terra satellite to investigate volcanic activity with thermal and DEM datasets.

STUDENT MENTORING

2 graduate and 8 undergraduate students.

Laura Jones — Independent Research, UCLA *2025 – Present*
“Thickness of Venusian Channelized Lava Flows”

Evan Cooper — Independent Research, Middlebury College *2024 – Present*
“Piton as an Analog for Chloris Mons, Venus”

Will Schuck — Independent Research, University of Pittsburgh *2024 – 2026*
“Morphology of Venusian Lava Flows”

Sasha Reeder — Independent Research, University of Pittsburgh *2024 – 2025*
“Evidence for Hybrid Volcanic Vents on Mars”

Elijah Copich — Undergraduate Honors Thesis, University of Pittsburgh *2023 – 2025*
“Mars Volcanic Vent Detection Using Machine Learning”

Ben Schuler — Undergraduate Honors Thesis, University of Pittsburgh *2023 – 2025*
“Thermal and Topographic Analysis of Mt. Saint Helens”

Bailee Zinzer — PhD Student, University of Idaho *2023 – 2024*
VNIR spectral analysis of volcanic deposits

Frank Wroblewski — PhD Student, University of Idaho *2023 – 2024*
Krafla, Iceland lava flow as an analog for Mars

Frances Russo — Undergraduate Honors Thesis, University of Pittsburgh *2020 – 2022*
“The Impact of Slope and Flow Width Variability on the Modeling of Martian Lava Flows”

Cole Miller — Independent Research, University of Pittsburgh *2020 – 2021*
“Analyzing the 2020–2021 Klyuchevskoy eruption using ASTER”

TEACHING EXPERIENCE

Courses taught as Teaching Assistant (TA), Teaching Fellow (TF), or Lecturer (LE).

Igneous and Metamorphic Petrology (LE) — University of Pittsburgh *Spring 2027 (scheduled)*

The Planets (TF, LE) — University of Pittsburgh *2021, 2025*

Introduction to Remote Sensing (TA, TF) — University of Pittsburgh *2018 – 2020*

Natural Disasters (TA) — University of Pittsburgh *2018*

Sedimentology and Stratigraphy (TA) — University of Pittsburgh *2017*

Petrology (TA) — Rider University *2017*

Oceanography (TA) — Rider University *2017*

Mineralogy (TA) — Rider University *2016*

GUEST LECTURES

Remote Sensing — University of Pittsburgh *2022 – 2024*

Natural Disasters — University of Pittsburgh *2023 – 2026*

The Planets — University of Pittsburgh *2021 – 2023, 2026*

Geology of the Planets — University of Pittsburgh *2023*

PROFESSIONAL SERVICE & OUTREACH

Peer Reviewer

2022 – Present

Bulletin of Volcanology, Geo-Information, Icarus, Journal of Volcanology and Geothermal Research, JGR: Planets, Nature Communications Earth & Environment, Nature Communications, Planetary and Space Science, Remote Sensing, Springer (Modern Volcano Monitoring)

Chaired Conference & Workshop Sessions

2024 – Present

- Petrology, Volcanology, and Mantle Plumes across the Solar System — GSA, Co-chair, 2025
- Volcanism Across the Solar System (No, It's Not Just You, Venus) — LPSC, Co-chair, 2024

Public Outreach / DEI

- DEI Committee, University of Pittsburgh, 2022 – Present
- New Foundations Charter School, 2019 – 2020

RESEARCH INTERNSHIPS, SUMMER SCHOOLS & WORKSHOPS

Bridging the Gap Between Mathematical Modelling of Lava Flows and Field Observations Workshop June 2025
Early Career Researcher · University of Edinburgh

VICTOR Volcanic Flow Workshop Aug 2023
Postdoc Participant · Tufts University

NASA Planetary Science Summer School (PSSS) May – Aug 2021
Graduate Student Participant · NASA Jet Propulsion Laboratory (virtual) · Development of the Astrobiology eXploration at Enceladus (AXE) mission

NASA Planetary Volcanology Field Workshop June 2019
Graduate Student Participant · University of Hawai'i

TECHNICAL SKILLS

Data analysis & computing: ESRI ArcGIS suite, Jupyter Notebook, Python, MATLAB, IDL, Adobe Creative Suite, Microsoft Office, ENVI, SPSS, JMARS.

Laboratory: Rock/mineral sample preparation (splitting, crushing, sieving), microscopy, FTIR spectrometry (VNIR, SWIR, TIR), petrographic analysis, high-temperature furnace operation, FLIR camera analysis.

HONORS & AWARDS

Delta Alpha Pi International Honor Society, University of Pittsburgh 2019 – 2022

Provost Scholarship, Rider University 2013 – 2017

LEADERSHIP

Diversity, Equity, and Inclusion Committee for Geology, University of Pittsburgh 2023 – Present

Graduate Student Government Representative, University of Pittsburgh 2018 – 2020

Graduate Student–Faculty Liaison, University of Pittsburgh 2018 – 2019

Captain, Men's Swim Team, Rider University 2016 – 2017

PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science (AAAS) · Venus Exploration Analysis Group (VExAG) · International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) · American Geophysical Union (AGU) · Geological Society of America (GSA) · The Planetary Society · Pitt Space Initiative