Dany Waller

Curriculum Vitae

dany.waller@jhu.edu

danywaller.github.io

EDUCATION

| 2026 (expected) – D.Eng. in Materials Science & Engineering | | |
|--|---|--|
| | Johns Hopkins University, Baltimore, MD | |
| 2022 – M.S. in Applied Physics (Honors) | | |
| | Johns Hopkins University, Baltimore, MD | |
| 2019 – B.S. in Mathematics | conno riopano oniversity, bataniore, mb | |
| 2019 - D.S. III Mathematics | | |
| | University of Kentucky, Lexington, KY | |
| 2019 – B.A. in Physics | | |
| | University of Kentucky, Lexington, KY | |
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| EMPLOYMENT | | |
| 2021 - Present – Associate Professional Staff | | |
| | JHU/APL Space Exploration Sector | |
| | Science Analysis & Applications Group | |
| 2020 - 2021 – Graduate Research Assistant | | |
| | JHU/APL Space Exploration Sector | |
| | Planetary Exploration Group | |
| 2020 - 2021 – Scientific Analyst II | | |
| | Science Systems & Applications, Inc. | |
| NASA Goddard Space Flight Center G | Geodesy and Geophysics Laboratory (61A) | |
| RESEARCH PROJECTS | | |
| | test sed | |
| 2024 - Present – Europa Clipper PIMS Science Operations Center Lead | | |
| 2023 - Present - Lunar Reconnaissance Orbiter (LRO) Mini-RF Team Affiliate | | |

- 2022 Present Lunar Vertex Co-Investigator
- 2022 Present Lunar Vertex Magnetometer Instrument Scientist
- 2021 2023 Double Asteroid Redirection Test (DART) Investigation Team
- 2020 Present Lunar Reconnaissance Orbiter (LRO) LAMP Team Affiliate

AWARDS AND HONORS

| 2025 – Europa Clipper PIMS Special Achievement Award | |
|--|---------------------------------|
| | JHU/APL |
| 2024 – Lunar Vertex Special Achievement Award | |
| | JHU/APL |
| 2023 – DART Special Achievement Award | |
| 2021 – 2 nd place in NESF/ELS 2021 Student Poster Competition | JHU/APL |
| | NASA SSERVI |
| 2020 – 5 Sigma Physicist | |
| | American Physical Society (APS) |
| 2019 – Student Impact Award | |
| | Omicron Delta Kappa Nu Circle |

2019 - Outstanding Senior on UK at the Half

University of Kentucky

SERVICE

2024 - present – Planetary Science Section Secretary

2022 - 2024 - Intern Mentor

2020 - 2021 - Intern Mentor

2018 - 2020 - STEM Policy Advocate

NASA Goddard Association of Postdoctoral and Early Career Scholars (NGAPS+) 2020 - 2021 – Science Mission Directorate Bridge Program Committee Member

NASA Goddard Space Flight Center (GSFC)

Asia Oceania Geosciences Society

JHU/APL CIRCUIT program

American Physical Society (APS)

PUBLICATIONS

Waller, C.D., Espiritu, R.C., Tinsman, C., Nair, H., Ernst, C.M., Daly, R.T., Barnouin, O.S., Zinzi, A., Chabot, N., Rivkin, A., Moskovitz, N., Osip, D., Lister, T., Ryan, E., and Ryan, W. (2024). Science Product Pipelines and Archive Architecture for the DART Mission. *Planetary Science Journal*. doi:10.3847/PSJ/ad5959

Waller, C.D., Cahill, J.T.S., Retherford, K.D., Hendrix, A.R., Allen, R.C., Vines, S.K., Meyer, H.M., Wirth-Singh, A.A. (2022). Ultraviolet and Magnetic Perspectives at Reiner Gamma and the Implications for Solar Wind Weathering. *Frontiers in Astronomy and Space Sciences*. doi:10.3389/fspas.2022.926018

Waller, C.D., Strauss, B.E. (2022). Magnetometry. In B.M. Cudnik (Ed.), *Encyclopedia of Lunar Science* (1st ed.). Springer. doi:10.1007/978-3-319-05546-6

CONFERENCES

Waller, C.D., Rorschach, K., Stautberg, A., Cahill, J.T.S., Izquierdo, K., Shea, E. (2024, December 9-13). *Designing a Network of Environmental Monitoring Stations to Combine Lunar Geophysics and Space Weather Investigations*. American Geophysical Union Fall Meeting, Washington, DC.

Waller, C.D., Vines, S.K., Anderson, B.J., Blewett, D.T., Ocasio, A.M., Cahill, J.T.S., Tikoo, S.M., Jahn, J.-M. (2023, December 11-15). *Magnetic Gradiometry and Ongoing Modeling Efforts for the Lunar Vertex Mission*. American Geophysical Union Fall Meeting, San Francisco, CA.

Waller, D., Cahill, J.T.S., Hendrix, A.R., Retherford, K.D., Stockstill-Cahill, K. (2023, October 1-6). *Space Weathering Trends in Ultraviolet Wavelengths of Lunar Swirls in Highlands and Mare*. 55th AAS Division for Planetary Science Conference, San Antonio, TX. Abstract #101.03.

Burke, P., **Waller, C.D.** (2023, May 15-18). *The Influence of Gravity and Magnetic Fields on Brine Formation and Habitability Across the Solar System*. Brines Across the Solar System: Ancient and Future Brines, Reno, NV. Abstract #2012.

Waller, C.D., Espiritu, R.C., Nair, H., Ernst, C.M., Daly, R.T., Barnouin, O.S. (2023, April 03-07). Automated Data Processing and Image Quality Analysis for the DART DRACO Instrument. 8th IAA Planetary Defense Conference, Vienna, Austria.

Waller, C.D., Vines, S.K., Anderson, B.J., Blewett, D.T., Ocasio, A.M., Cahill, J.T.S., Tikoo, S.M., Jahn, J.-M. (2023, March 13-17). *Magnetic Gradiometry and Ongoing Modeling Efforts for the Lunar Vertex Mission*. 54th Lunar and Planetary Science Conference, The Woodlands, TX. Abstract #1820.

Waller, C.D., Espiritu, R.C., Nair, H., Ernst, C.M., Daly, R.T., Barnouin, O.S. (2023, March 13-17). *Automated Data Processing and Image Quality Analysis for the DART DRACO Instrument*. 54th Lunar and Planetary Science Conference, The Woodlands, TX. Abstract #1823.

Waller, D., Cahill, J.T.S. (2022, July 19-21). *Variegated Space Weathering Expression Classification Across Reiner Gamma in Preparation for Lunar Vertex*. NASA Exploration Science Forum, Boulder, CO. Abstract #66.

Waller, D., Cahill, J.T.S., Retherford, K.D., Hendrix, A.R. (2022, March 7-11). Solar Wind Compression of the Magnetic Anomaly at Reiner Gamma and Potential Weathering Patterns Observed in the Ultraviolet. 53rd Lunar and Planetary Science Conference, The Woodlands, TX. Abstract #2670.

Waller, D., Cahill, J.T.S., Meyer, H. (2022, February 17). *Modeling Temporal Variations in Solar Wind Conditions at Reiner Gamma: Preparations for Lunar Vertex*. 14th Lunar Surface Science Workshop: Heliophysics Applications Enabling and Enabled by Human Exploration of the Lunar Surface, held virtually. Abstract #1022.

Waller, D., Cahill, J.T.S., & Wirth-Singh, A. (2021, July 20-23). *Investigation of Magnetic Fields Associated with Various Lunar Swirls Observed in The Far-Ultraviolet*. Joint NASA Exploration Science Forum & European Lunar Symposium, held virtually due to COVID-19.

INVITED TALKS

+ **Waller, C.D.**, Cahill, J.T.S., Hendrix, A.R., Retherford, K.D., Stockstill-Cahill, K. (2023, December 11-15). *Space Weathering Trends in Ultraviolet Wavelengths of Lunar Swirls in Highlands and Mare* [Conference presentation]. American Geophysical Union Fall Meeting, San Francisco, CA.

+ Waller, C.D. (2022). Solar Wind Compression of the Magnetic Anomaly at Reiner Gamma and Potential Weathering Patterns Observed in the Ultraviolet [Colloquium]. NASA GSFC Geospace Physics Laboratory, Greenbelt, MD.