

# Dany Waller

## Curriculum Vitae

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🌐 [danywaller.github.io](https://danywaller.github.io)

🌀 [lunarswirls](#)

### Education

- 2025–Present **Ph.D. in Computational Physics**, *Umeå University*, Umeå, Sweden
- 2022 **M.S. in Applied Physics (Honors)**, *Johns Hopkins University*, Baltimore, MD
- 2019 **B.S. in Mathematics**, *University of Kentucky*, Lexington, KY
- 2019 **B.A. in Physics**, *University of Kentucky*, Lexington, KY

### Employment

- 2025–Present **Graduate Research Assistant**, *Umeå University*, Computational Physics Department
- 2021–2025 **Associate Professional Staff**, *JHU Applied Physics Laboratory*, Space Exploration Sector
- 2020–2021 **Scientific Analyst II**, *Science Systems & Applications, Inc.*, NASA Goddard Space Flight Center, Geodesy and Geophysics Laboratory (61A)

### Research Projects

- 2025–Present Europa Clipper PIMS Graduate Student Affiliate
- 2023–Present Lunar Reconnaissance Orbiter (LRO) Mini-RF Team Affiliate
- 2022–Present Lunar Vertex Co-Investigator
- 2020–Present Lunar Reconnaissance Orbiter (LRO) LAMP Team Affiliate
- 2024–2025 Europa Clipper PIMS Science Operations Team
- 2022–2025 Lunar Vertex Magnetometer Instrument Scientist
- 2021–2023 Double Asteroid Redirection Test (DART) Investigation Team

### 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, JHU/APL
- 2021 2nd place, NESF/ELS Student Poster Competition, 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, Asia Oceania Geosciences Society
- 2022–2024 Intern Mentor, JHU/APL CIRCUIT Program
- 2020–2021 Intern Mentor, NASA Goddard Association of Postdoctoral and Early Career Scholars (NGAPS+)
- 2020–2021 Committee Member, NASA Science Mission Directorate Bridge Program, GSFC
- 2018–2020 STEM Policy Advocate, American Physical Society (APS)

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## Select Publications & Presentations

- 2025 Waller, C.D., Cahill, J.T.S., Rivera-Valentín, E.G., et al. (2025, in review). *Multi-Wavelength Analysis and Geophysical Characterization of Orientale Impact Basin: Insights into Lunar Surface Composition and Structural Properties*. Planetary Science Journal.
- 2025 Luspay-Kuti, A., Crew, A.B., Waller, D., et al. (2025, March 10–14). *Magnetic Gradiometry and Ongoing Modeling Efforts for the Lunar Vertex Mission*. 56th Lunar and Planetary Science Conference, The Woodlands, TX. Abstract #2314
- 2025 Waller, C.D., Cahill, J.T.S., Fassett, C.I., et al. (2025, March 10–14). *Regional Crustal Characterization Trends in the Western Lunar Limb of Orientale and the Outer Feldspathic Highlands Terrain*. 56th Lunar and Planetary Science Conference, The Woodlands, TX. Abstract #2618
- 2024 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.
- 2024 Kumari, N., Glotch, T.D., Williams, J.-P., ..., Waller, C.D., et al. (2024). *Extended Silicic Volcanism in the Gruithuisen Region—Revisiting the Composition and Thermophysical Properties of Gruithuisen Domes on the Moon*. Planetary Science Journal. doi:10.3847/PSJ/ad4352
- 2024 Waller, C.D., Espiritu, R.C., Tinsman, C., et al. (2024). *Science Product Pipelines and Archive Architecture for the DART Mission*. Planetary Science Journal. doi:10.3847/PSJ/ad5959
- 2023 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
- 2022 Waller, C.D., Cahill, J.T.S., Retherford, K.D., et al. (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
- 2022 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