

Dany Waller

Curriculum Vitae

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 [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)

Select Publications & Presentations

- 2025 Waller, C.D., Cahill, J.T.S., Retherford, K.D., et al. (2025, in review). *Variation in Lunar Regolith Space Weathering Relative to Latitude and Wavelength*. Planetary Science Journal.
- 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). *The Plasma Instrument for Magnetic Sounding (PIMS) on Europa Clipper: First Light*. 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