Cole Meyer

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EDUCATION

University of Arizona, Tucson, AZ, 2024–present
Expected 2029: Ph.D. in Planetary Sciences, Minor in Optical Sciences
Expected 2026: M.S. in Planetary Sciences
Thesis Advisor: Walt Harris; Minor Advisor: Daewook Kim

Princeton University, Princeton, NJ, 2020–2024
A.B., Honors in Astrophysical Sciences with Service Focus
Thesis Advisors: Chris Chyba, Katherine de Kleer, Maria Camarca

PEER-REVIEWED PUBLICATIONS (*indicates undergraduate advisee)

C. Meyer, J. Flores, J. Corliss, W. Harris. Performance characterization of a dual-ruled symmetrically-blazed diffraction grating. *In prep*.

C. Meyer, J. Flores, H. Das*, H. Marchinek*, J. Corliss, E. Hamden, H. Chung, W. Harris. Spatial Heterodyne Interferometric Molecular Cloud Observer (SHIMCO) I. Target selection and modeling. *Submitted*.

C. Meyer, M. Camarca, K. de Kleer, A. Thelen, C. Chyba, B. Butler. Revealing Callisto's near subsurface thermophysical properties with ALMA calibration data. *Accepted*.

M. Camarca, K. de Kleer, B. Butler, A. Thelen, **C. Meyer**, A. Akins, I. de Pater, M. Gurwell (2025). A Multifrequency Global View of Callisto's Thermal Properties from ALMA. *Planetary Science Journal*, 6(8), 183. https://doi.org/10.3847/PSJ/ade7ee.

R. Bandyopadhyay, **C. Meyer**, W. Matthaeus, D. McComas, S. Cranmer, J. Halekas, J. Huang, D. Larson, R. Livi, A. Rahmati, P. Whittlesey, M. Stevens, J. Kasper, S. Bale (2023). Estimates of proton and electron heating rates extended to the near-Sun environment. *Astrophysical Journal Letters, 955*(2), L28. https://doi.org/10.3847/2041-8213/acf85e.

CONFERENCE PROCEEDINGS (*indicates undergraduate advisee)

S. Agarwal, R. Maciel, J. Corliss, W. Harris, E. Hamden, **C. Meyer**, J. Alday, H. Marchinek*, J. Martinez Castillo, H. Das*, E. Garcia, N. Yescas, D. Truong (2025). Advancing remote sensing with SHEUVI: experimental validation of dual-ruled grating for extreme ultraviolet applications. *Proc. SPIE 13624, Astronomical Optics: Design, Manufacture, and Test of Space and Ground Systems V,* 136241S. https://doi.org/10.1117/12.3063925.

CONFERENCE ABSTRACTS/PRESENTATIONS

"SHIMCO I. Target Selection and Modeling"
Invited talk: LPLC Department Conference 2025, Tucson AZ.
Contributed talk: 247th AAS Meeting 2026, Phoenix, AZ
Poster: Arizona Space Institute Symposium 2025, Tucson, AZ.
"Thermal Imagery of Callisto Using ALMA Calibrator Data"
Contributed talk: DPS Meeting 2024, Boise, ID.
Contributed talk: LPLC Department Conference 2024, Tucson, AZ.
3-minute video: Princeton Research Day 2024, Princeton, NJ.
Poster: 243rd AAS Meeting 2024, New Orleans, LA.
Contributed talk: Caltech SURF Symposium 2023. Pasadena, CA.
"OBserving Sodium Doublet in Io's Aurorae (OBSiDIAn) Spectrograph"
Poster: AstroTech Spectrograph Symposium 2023. Berkeley, CA.
"Estimates of Heating Rates in the Near-Sun Environment"
3-minute video: Princeton Research Day 2023, Princeton, NJ.
"Automating Inspection of Attenuation Grids and Carbon Foils"
Contributed talk: Princeton USRP Symposium 2022. Princeton, NJ.

PUBLIC OUTREACH & SERVICE

Chambliss Poster Competition Judge, 247th AAS Meeting, 2026
Grants Reviewer, Graduate and Professional Student Council, 2025–present.
Co-Founder and Co-Director, Other Worlds Astrobiology Initiative, 2025–present.
Organizer, Lunar and Planetary Laboratory Conference, 2025–present.
Graduate Instructor, University of Arizona Sky School, 2025–present.
Co-Founder & Co-Editor-in-Chief, Princeton Undergraduate Research Journal, 2023–2024.
Founder & President, Princeton Astronomy Club, 2021–2024.

CLASSROOM TEACHING EXPERIENCE

Co-Founder & Co-Director, Other Worlds Initiative, 2025–present.
Observation Assistant, Planets in the Universe, Princeton University, Fall 2023.

PROFESSIONAL DEVELOPMENT

Participant, P.I. Launchpad, NASA Ames Research Center, 2025.
Participant, Code/Astro Summer School, Northwestern University, 2025.
Participant, AstroTech Summer School, UC Berkeley, 2023.

ACADEMIC AWARDS/FELLOWSHIPS

Arizona/NASA Space Grant Fellowship ($17,000), 2025.
Arizona Astrobiology Center Seed Grant ($10,000), 2025.
LPLC Best Graduate Student Talk, 2024.

NSF Graduate Research Fellowship ($159,000), 2024.
Outstanding Presentation Award ($1,500), Princeton University, 2024.
OUR UG Fund for Academic Conferences ($750), Princeton University, 2024.
Summer UG Research Fellowship ($7,500), Caltech, 2023.
Outstanding Presentation Award ($1,500), Princeton University, 2023.
UG Summer Research Program ($5,400), Princeton University, 2022.
Service Focus Fellowship, Princeton University, 2021.
International Internship Program ($4,800), Princeton University, 2021.
Service Leadership Fellowship, Princeton University, 2020.

RESEARCH ADVISORSHIP

Elliot Emerson (undergraduate), 2025–present.
Emrick Little (STAR Lab; high school student), 2025–present.
Heerok Das (Arizona/NASA Space Grant; undergraduate), 2024–present.
Jasmine Martinez Castillo (Arizona/NASA Space Grant; undergraduate), 2024–2025.
Hayden Marchinek (Arizona/NASA Space Grant; undergraduate), 2024–2025.