

Cole Meyer

Lunar and Planetary Laboratory
1629 E. University Blvd.
Tucson, AZ 85721

<https://colemeyer.github.io/>
cmmeyer@arizona.edu
(320) 296-9560

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

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

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 ABSTRACTS/PRESENTATIONS

“SHIMCO I. Target Selection and Modeling”

Invited talk: LPLC Department Conference 2025, Tucson 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

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 (\$15,000), 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

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.