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, 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 prep.*

M. Camarca, K. de Kleer, B. Butler, A. Thelen, **C. Meyer**, A. Akins, I. de Pater, M. Gurwell. A multi-frequency global view of Callisto's thermal properties from ALMA. *Submitted.*

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

Arizona Space Institute Symposium 2025, Tucson, AZ
Poster: Spatial Heterodyne Interferometric Molecular Cloud Observer (SHIMCO): Target Selection and Spectral Modeling

DPS Meeting 2024, Boise, ID
Talk: Revealing Callisto's Near Subsurface Thermophysical Properties with ALMA Calibrator Data

LPLC Department Conference 2024, Tucson, AZ
Talk: Thermal Imagery of Callisto Using ALMA Calibrator Data

Princeton Research Day 2024, Princeton, NJ
3-minute video: Dumpster Diving: Thermal Imagery of Callisto Using ALMA Calibrator Data. https://tinyurl.com/mu4zasr7.

243rd AAS Meeting 2024, New Orleans, LA
Poster: Thermal Imagery of Callisto Using ALMA Calibrator Data

Caltech SURF Symposium 2023. Pasadena, CA

Talk: Thermal Imagery of Callisto Using ALMA Calibrator Data
AstroTech Spectrograph Symposium 2023. Berkeley, CA
Poster: OBserving Sodium Doublet in Io's Aurorae (OBSiDIAn) Spectrograph.
Princeton Research Day 2023, Princeton, NJ
3-minute video: Estimates of Heating Rates in the Near-Sun Environment. https://tinyurl.com/3p9r45mk.
Princeton USRP Symposium 2022. Princeton, NJ
Talk: Automating Inspection of Attenuation Grids and Carbon Foils
ALMA Observatory Summer Symposium 2021. Online
Poster & Talk: Investigating the Nature of Antenna Position Offset Drift

PUBLIC OUTREACH

Co-Founder & Co-Director, Other Worlds Initiative, 2025–present.
Graduate Instructor, University of Arizona Sky School, 2025–present.
Co-Founder & Co-Editor-in-Chief, Princeton Undergraduate Research Journal, 2023–2024.
Co-Founder & President, Princeton Astronomy Club, 2021–2024.

TEACHING EXPERIENCE

Observation Assistant, Planets in the Universe, Princeton University, Fall 2023.

PROFESSIONAL DEVELOPMENT

Participant, Code/Astro Summer School, 2025.
Participant, AstroTech Summer School, 2023.

ACADEMIC AWARDS/FELLOWSHIPS

Arizona/NASA Space Grant Fellowship ($15,000), 2025.
Arizona Astrobiology Center Seed Grant ($10,000), 2025.
NSF Graduate Research Fellowship ($159,000), 2024.
LPLC Best Graduate Student Talk, 2024.
Outstanding Presentation Award ($1,500), Princeton University, 2024.
OUR UFAC Travel Grant ($750), Princeton University, 2024.
Outstanding Presentation Award ($1,500), Princeton University, 2023.
Service Focus Fellowship, Princeton University, 2021.
Service Leadership Fellowship, Princeton University, 2020.
Arete Fellowship, Princeton University, 2020.

RESEARCH ADVISORSHIP

Hayden Marchinek (Arizona/NASA Space Grant; undergraduate), 2024–present.
Heerok Das (Arizona/NASA Space Grant; undergraduate), 2024–present.
Jasmine Martinez Castillo (Arizona/NASA Space Grant; undergraduate), 2024–present.