

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.

Founder & President, Princeton Astronomy Club, 2021–2024.

TEACHING EXPERIENCE

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 UFAC Travel Grant (\$750), Princeton University, 2024.

Summer Undergraduate Research Fellowship (\$7,500), Caltech, 2023.

Outstanding Presentation Award (\$1,500), Princeton University, 2023.

USRP Fellowship, Princeton University, 2022.

Service Focus Fellowship, Princeton University, 2021.

IIP 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.