

# Cole Meyer

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## EDUCATION

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*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)

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**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

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*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>.

243<sup>rd</sup> *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**

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*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.

## **CLASSROOM TEACHING EXPERIENCE**

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

## **PROFESSIONAL DEVELOPMENT**

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*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**

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*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.

*Arete Fellowship*, Princeton University, 2020.

## **RESEARCH ADVISORSHIP**

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*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.