

Cicero Lu

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Education

- Ph.D. in Physics and Astronomy, Johns Hopkins University 2017 – Expected 05/2023
- M.A. in Physics and Astronomy, Johns Hopkins University 2017 – 2019
- B.S. in Physics, University of California, Los Angeles 2013 – 2017

Academic Employment

Johns Hopkins University, Graduate Research Assistant	2020-Present
Johns Hopkins University, Graduate Teaching Assistant	2017-2020
UCLA, Undergrad Research Assistant	2015-2017
UCLA BruinsOnline Tech Consultant	2014-2015

Fellowship & Awards

NASA FINESST Fellowship	2021-2023
AAS Chambliss Poster Honorable Mention	06/2020
HopHacks Hackathon 3rd Place (out of 70 Teams)	09/2020
UCLA Undergraduate Research Scholars Program Scholarship	Sept. 2016 - July 2017
UCLA Honors 2015 Summer Research Scholarship	Jun. 2015 - Sept. 2015
Mathematical Contest in Modeling, Meritorious Winner (Top 10% globally)	03/2015

Publication

Lu, C. X., Chen, C.H., Mittal T., , Watson D.M., Lisse C. M., Sargent, B. A., Green J. D., Rebollido I., Hines D.C. "Spectroscopic Evidence for FeO in Debris Disks", 2022, in Prep

Lu, C. X., Chen, C.H., Sargent, B. A., Watson D.M., Lisse C. M., Green J. D., Sitko M., Mittal T., Rebollido I., Hines D.C., Werner M. W., Stapelfeldt K.R. "Trends in Silicates in the β Pictoris disk", ApJ, 933, 54

Lu, C. X., Schlaufman, K.C. and Cheng, S. "Small Planet Occurrence Increases with Metallicity for Late-type Dwarf Stars in the Kepler Field and Its Implications for Planet Formation", AJ, 160, 253

Lu, C. X. and Naoz, S. "Supernova Kicks in Hierarchical Triple Body Systems", MNRAS, 484, 1506

Kilpatrick, C D.; Foley, R. J.; Abramson, L. E.; Pan, Y.; **Lu, C. X.** et al. "On the Progenitor of the Type IIb Supernova 2016gkg", MNRAS, 465, 4650

Successful Proposals & Grants

- Future Investigators in NASA Earth and Space Science and Technology (FINESST) 2021-2023
"Sequencing Dusty Disk Spectra: A Non-Parametric, Systematic Analysis Revealing the Relationships Between Disks and their Host Stars", PI: C. Chen, FI: **C. Lu**
- JWST Cycle 1 Guest Observer Program (ID: 2053) 2021
"Search for NIR gas in debris disks. Is there a water delivery mechanism?", PI: I. Rebollido, **Co-Is:** C. Chen, J. Debes, **C. Lu**, A. Moro-Martin, M. Perrin, A. Roberge

- STScI Director's Research Fund 11/2020 – 12/2021
"Does Fomalhaut Have an Icy Kuiper Belt?", Co-I (Lu wrote the Science Justification for this proposal.)
- STScI Director's Research Fund, *"Silicate Mapping in Debris Disks"*, Co-I 11/2019 – 1/2021
- Spitzer Director's Discretionary Time 2019
"The First Young Transiting Planet: Exoplanet or Starspot", Co-I (Science PI), Approved by TAC, not executed due to target duplication in queue
- IAU Travel Grant for IAU Symposium No. 353 2019

Observing Experience

- NASA Infrared Telescope Facility (IRTF) iSHELL, 2 half nights Feb 2022
- NASA IRTF SpeX, 1 half night Feb 2021

Selected Talks

- *"Constraining the Composition and Formation Processes of Planet Building blocks: From Spitzer to JWST "*
 - Penn State, Center of Exoplanets and Habitable Worlds, Lunch Seminar (Invited Talk) Sept 12, 2022
 - University of Michigan, Star and Planet Formation Group Expected Sept 20, 2022
 - UCLA Tuesday Lunch Seminar Series Expected Oct 18, 2022
- *"Trends in silicates in the beta Pictoris Debris Disk"*
 - AAS 240 June 22, 2022
 - European Astronomical Society Annual Meeting June 29 2021
 - STScI Star and Planet Formation Research Group Meeting Aug. 12, 2020
- *"Probing Planet Formation with Planet Occurrence as a Function of Metallicity"*
 - Exoplanets IV May 2, 2022
 - Chesapeake Bay Area Exoplanet Meeting (CHEXO) Dec. 11, 2020
 - Chesapeake Bay Area Exoplanet Meeting May 10, 2019
- *"Multiple Views of Planet Formation"*
 - UCLA Smadar Naoz Research Group Meeting (Invited Talk) June 18, 2020

Selected Posters

- *"Trends in Silicates in the β Pictoris Debris Disk"*, Exoplanet IV, Las Vegas May 1 – 6, 2022
- *"Constraining the Role of Collisions in the β Pictoris Debris Disk"*, AAS 237, online Jan 11–15, 2021
- *"Constraining the Role of Collisions in the β Pictoris Debris Disk"*, AAS 236, online June 1–3, 2020
- *"M Dwarf Planet Occurrence Rates Depend on Metallicity at all Planet Radii"*, Extreme Solar System IV, Reykjavik, Iceland Aug. 2019
- *"Supernova Kicks in Hierarchical Triple Systems"*, IAU 353, Galactic Dynamics in the Era of Large Surveys, Shanghai, China Jun. 2019
- *"Probing Planet Formation with Planet Occurrence as a Function of Metallicity"*, Sagan Summer Workshop, Pasadena, CA 2018

Services & Outreach

- Executive Secretary, NASA Exoplanet Research Program (XRP) Panel (Year Redacted)
- AAS Chambliss Poster Judge 2021 – 2022
- JHU P&A Graduate Student Wine & Cheese Talks Coordinator 2020 – 2022
- JHU P&A Graduate Student Association International Student Representative 2020 – 2022

JHU Exoplanet Journal Club Organizer	2019 – 2020
JHU & STScI Liaison	2018 – 2019
JHU Outreach Volunteer	2017 – 2019
UCLA Conference for Undergraduate Women in Physics Group Organizer	2015 – 2017
UCLA Astronomy Live! Outreach Volunteer	2015 – 2017

Teaching

Teaching Assistant, Numerical Methods for Physicists	Spring 2019
Teaching Assistant, Planets, Life and the Universe	Fall 2018, 2019
Teaching Assistant, General Physics for Biology Majors II	Spring 2018
Instructor, <i>General Physics Laboratory II</i>	Spring 2018
Instructor, <i>General Physics Laboratory I</i>	Fall 2017
Teaching Assistant, <i>General Physics for Physical Sciences Majors</i>	Fall 2017

Media Coverage

" <i>Seeing into Space</i> ", Podcast Interview by WORLD	07/14/2022
" <i>NASA's Webb to Explore a Neighboring, Dusty Planetary System</i> ", An Interview for the James Webb Guaranteed Time Observations (GTO) and General Observers (GO) programs Research team, jointly featured on NASA Goddard News and Space Telescope Webb News	07/21/2021