

Eric Van Clepper

Contact Information

Department of Geophysical Sciences
University of Chicago
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Education

2020 - : Ph.D. Candidate, Geophysical Sciences, University of Chicago, Chicago, IL
2015 - 2019: BA *cum laude* Astronomy, Planetary Science, Northwestern University, Evanston, IL

Employment

2020 - : Research and Teaching Assistant, University of Chicago, Chicago, IL
Advisor: Fred Ciesla
2019 - 2020: N'Cat Tutor, Northwestern University, Evanston, IL
2017 - 2019: Undergraduate Research Assistant, Northwestern University, Evanston, IL
Advisor: Giles Novak

Selected Grants

2023 NASA FINESST
2018 Northwestern Weinberg Research Grant
2018 NASA ISG Summer Research Grant
2017 NASA ISG Summer Research Grant

Conference Presentations

Goldschmidt Conference, Chicago (August 2024)
FARGO3D 1st Workshop, Santiago, Chile (January 2024)
Meteoritical Society, 86th Annual Meeting, Los Angeles (August 2023)
Kavli-IAU Astrochemistry Symposium, Astrochemistry VIII, Traverse City (July, 2023)
Meteoritical Society, 84th Annual Meeting, Chicago (August 2021)

Poster Presentations

Solar System in Context, NOIRLab (October, 2025)
Origins of Life, Origin Federation Conference (Sep, 2025)
Origins of Solar Systems, Gordon Research Conference (June, 2025)
New Heights in Planet Formation, ESO Dust Busters (July, 2024)
Origins of Solar Systems, Gordon Research Conference (June, 2023)
Emerging Researchers in Exoplanet Sciences VII (August 2022)

Publications

[ORCiD](#), [Google Scholar](#), [ADS](#)

First Author Publications

Van Clepper, Eric, Alarcón, F., Bergin E., Ciesla F. (2025) "Dust Recycling and Icy Volatile Delivery (DRIVE): A Novel Method of Volatile Enrichment in Cold Giant Planets." *In review*.

ERIC VAN CLEPPER CV

Van Clepper, Eric, Price, E. M., and Ciesla, F. (2025) “Three-dimensional transport of solids in a protoplanetary disk containing a growing giant planet.” *The Astrophysical Journal* 980:201 <https://doi.org/10.3847/1538-4357/ada8a4>

Van Clepper, Eric., Bergner, J., Bosman A., Bergin E., and Ciesla F. (2022) “Chemical Feedbacks of Pebble Growth: Impacts on CO Depletion and C/O Ratios.” *The Astrophysical Journal* 927:206. <https://doi.org/10.3847/1538-4357/ac511b>

Other Publications

Price, Ellen M., **Van Clepper, E.**, and Ciesla F. (2025) “Dynamics of Small, Constant-size Particles in a Protoplanetary Disk with an Embedded Protoplanet.” *The Astrophysical Journal* 979:37 <https://doi.org/10.3847/1538-4357/ad9f35>

Seligman, Darryl Z., Rogers, L., Cabot, S., et al. **incl. Eric Van Clepper** (2022) “The Volatile Carbon-to-oxygen Ratio as a Tracer for the Formation Locations of Interstellar Comets.” *The Planetary Science Journal* 3:150. <https://doi.org/10.3847/PSJ/ac75b5>.

Chuss, David T., Andersson, B-G., Bally, J., et al. **incl. Eric Van Camp** (2019) “HAWC+/SOFIA Multiwavelength Polarimetric Observations of OMC-1.” *The Astrophysical Journal* 872:187. <https://doi.org/10.3847/1538-4357/aafd37>.

Santos, Fabio P., Chuss, D., Dowell C., et al. **incl. Eric Van Camp** (2019) “The Far-Infrared Polarization Spectrum of ρ Ophiuchi A from HAWC+/SOFIA Observations.” *The Astrophysical Journal* 882: 113. <https://doi.org/10.3847/1538-4357/ab3407>.

Academic Service

Departmental Service

- 2024: Lead TA for intro to coding Bootcamp for incoming students
- 2024 - 2025: Graduate Union Steward for the Department of Geophysical Sciences
- 2023: Co-organizer of University of Chicago Graduate Research Expo
- 2022 - 2023: Co-organizer of University of Chicago Exoplanet Journal Club

Outreach

- 2025, July 23: Guest Lecture on planet formation for UChicago summer class ASTR11901
- 2023, Nov 14: Planetary science and grad student life panel, College of the South
- 2022, Nov 21: Planetary science and grad student life panel, College of the South