

# ADINA D. FEINSTEIN

NHFP Sagan Fellow @ Laboratory for Atmospheric and Space Physics, University of Colorado Boulder

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## LINKS

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 [NASA/ADS Library](#)

## STATS

### *Publications*

<b>First author</b>	9
<b>Total</b>	53
<b>Under review</b>	3
<b>Total citations</b>	1636
<b>h-index</b>	23

### *Students advised*

<b>Undergraduate</b>	2
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### *Software (GitHub stars)*

<b>eleanor</b>	★ 76
<b>stella</b>	★ 20

### *Invited Presentations*

<b>Seminars</b>	13
<b>Conferences</b>	9

### *Outreach*

<b>Presentations</b>	22
<b>Pen-pals</b>	4

## RESEARCH INTERESTS

Stellar activity of young stars, Detection and characterization of young planets and planetary atmospheres, Machine learning methods for automated light curve searches and young star identification, Open-source software development.

## EDUCATION

### **2018-2023: University of Chicago, Chicago, IL**

Doctor of Philosophy in Astronomy & Astrophysics

Title: "A Multi-wavelength Investigation of Young Stellar and Planetary Systems" advised by Jacob Bean

Master of Physical Sciences (received June, 2019)

### **2014-2018: Tufts University, Medford, MA**

Bachelor of Science in Astrophysics; Minor in English

High Thesis Honors: "Exploring the Low and High Mass Extremes in the Distant Universe" advised by Danilo Marchesini

## APPOINTMENTS

**2023-2026: NHFP Sagan Fellow, University of Colorado Boulder**

**2022-2023: Visiting Graduate Student, Cornell University**

**2019-2023: NSF Graduate Research Fellow, University of Chicago**

**2015-2018: Undergraduate Research Assistant, Tufts University**

**Summer 2017: Undergraduate Research Assistant, NASA GSFC**

Advisor: Joshua Schlieder

**Summer 2013: High School Research Assistant, University of Virginia**

Advisor: Phil Arras

**Summer 2012: High School Research Assistant, Cornell University**

Advisor: Jonathan Lunine

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## LEADERSHIP OPPORTUNITIES

2023 - present: Inaugural TESS Users Committee Member  
2023 - present: ESCAPE Small Explorer Mission Science Advisory Member  
2023 - present: ESPEX Small Explorer Mission Flare Advisory Member  
2023 - present: AXIS Stars & Exoplanets Science Working Group Member  
2022 - present: JWST Exoplanet Early Release Science Program Science Council Elected Member

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## HONORS & AWARDS

IAU Thesis Division F Planetary Systems and Astrobiology Honorable Mention (May, 2024)  
AAS Rodger Doxsey Travel Prize Honorable Mention (\$330; December, 2022)  
University of Chicago William Rainey Harper Dissertation Fellowship (\$4,300; June, 2022)  
UChicago Science as Art: Audience Favorite (\$150; March, 2022)  
Poster Honorable Mention (TESS Science Conference 2; August, 2021)  
Letters to a Pre-Scientist “Compassionate Connections” Award (June, 2021)  
McCormick Fellowship (\$4,500 over two years; 2019-2021)  
NSF Graduate Research Fellowship (\$36,000 for four years; May, 2019)  
University of Chicago Three Minute Thesis competition, Winner of Master’s Thesis (\$500; May, 2019)  
Chambliss Medal for Outstanding Poster Presentation (233<sup>rd</sup> AAS meeting; January, 2019)  
Massachusetts Space Grant (Summer, 2016)

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## STUDENTS ADVISED

*Adalyn Gibson* (Co-advised with Adam Kowalski; University of Colorado Boulder; Spring 2024)  
*ASTR 3520 (Observations & Instrumentation II) group mentor to three undergraduate students* (University of Colorado Boulder; Spring 2024)  
*Courtney Taddeo* (University of Colorado Boulder undergraduate; Fall 2023)  
*Gunjan Tomar* (Astronomy Mentorship Program for Upcoming Postdocs (AMP-UP); Fall 2023)  
*Rowen Glusman* (University of Chicago undergraduate; Summer 2022 — Spring 2023)

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## PROPOSALS & GRANTS (PI DENOTED WITH \*)

### *JWST Guest Observer Programs*

- \* KRONOS: Keys to Revealing the Origin and Nature Of sub-Neptune Systems (**129.96 hours**; GO 5959)
- \* Continuing the Legacy of AU Mic: Simultaneous FUV and NIR Observations of AU Mic b (**50.52 hours**; GO 5311)
- Shining a Spot-light on the Atmosphere of a Giant Planet around a Cool Star (PI Catriona Murray)

- TUNES: The Unintentional NIRISS Escape Survey (PI Shreyas Vissapragada)
- Putting it all Together: Dynamics and Chemistry Probed Through Transmission Spectroscopy of a Cloud-Free Exoplanet (PI Michael Radica)
- The First Atmospheric Study of a Bona Fide Water World (PI Rafael Luque)

#### ***HST Guest Observer Programs***

- \* Continuing the Legacy of AU Mic: Simultaneous FUV and NIR Observations of AU Mic b (GO 17613)
- A young burping planet: characterizing the variable atmospheric escape of the exciting AU Mic b (PI Keighley Rockcliffe)
- The M dwarf FUV Continuum: A Missing Driver of Atmospheric Hazes in Exoplanet Atmospheres (PI Kevin France)

#### ***TESS Guest Investigator Proposals***

- Planets And Stellar Activity Through Time: Understanding The Evolution, Diversity And Habitability Of Planetary Systems (PI Edward Gillen)
- One Thousand and One (+49) Flary Nights: a Comprehensive Mini-Survey of Flares and Exoplanets (PI Maximilian Günther)
- 1,050 Flaring Stars: A Comprehensive Survey Of Flares And Exoplanets (PI Maximilian Günther)
- Uniform Light Curves Across the Entire Sky from TESS FFIs with *eleanor* (\$150,000; PI Benjamin Montet)
- Searching for Planets in the Continuous viewing Zone with TESS Full Frame Image Data (\$50,000; PI Veselin Kostov)
- Measuring Long Rotation Periods from TESS's Short Light Curves (\$200,000; PI Ruth Angus)
- Searching for Planets in the Continuous viewing Zone with TESS Full Frame Image Data (\$50,000; PI Elisa Quintana)

#### ***NASA Astrophysics Data Analysis (ADAP) Program***

Detecting Activity Cycles using Stellar Flares, 2022 (\$544,087; PI James Davenport)

#### ***Competitive Telescope Time Awarded***

Apache Point Observatory

- \* 0.5 nights on ARCTIC (Q4 2023)
- \* 1.5 nights on ARCTIC (Q2 2024)

Gemini-North, GRACES

- \* 6 hours awarded through Gemini Fast-Turnaround Program, 2020 (GN-2019B-FT-215)

Gemini-South, IGRINS

- \* 6 hours awarded through Gemini Fast-Turnaround Program, 2022 (GS-2022A-FT-105)

Magellan Telescopes, awarded through University of Chicago

- \* 1 night on LDSS-3C, 2021
- \* 1 night on MIKE, 2021
- \* 2 nights on MIKE, 2019
- 1 night on PFS, 2019 (PI Benjamin Montet)
- 1 night on FIRE, 2018 (PI Jacob Bean)

Palomar

- 6 nights (PI Garrett Levine)

XMM-Newton

- 118000 seconds, 2020 (PI Katija Poppenhaeager)

SWIFT

DDT (PI Garrett Levine)

### ***Student-Advised Funding (per project)***

*Measuring Stellar Cycles of Young Stars with K2 and TESS*

University of Chicago Quad Summer Undergraduate Research Scholars (\$5,500; May, 2022)

Illinois Space Grant Consortium for Undergraduate Research Scholarship (\$3,000; March, 2022)

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## **FIRST-AUTHOR PUBLICATIONS (9) (+1 IN SUBMITTED)**

1. ***Evolution of Flare Rates in GKM Stars Younger than 300 Myr***  
**Feinstein A. D.**, Seligman D. Z., France K., et al. Under review at AAS Journals. See progress on GitHub: [afeinstein20/young-stellar-flares](#)
2. ***Early Release Science of the exoplanet WASP-39b with JWST NIRISS***  
**Feinstein A. D.**, Radica M., Welbanks L., et al. 2023, Nature, 614, 670. [arXiv:2211.10493](#) (Citations: 56)
3. ***AU Microscopii in the FUV: Observations in Quiescence, During Flares, and Implications for AU Mic b and c***  
**Feinstein A. D.**, France K., Youngblood A., et al. 2022, AJ, 164, 110. [arXiv:2205.09606](#) (Citations: 12)
4. ***V1298 Tau with TESS: Updated Ephemerides, Radii, and Period Constraints from a Second Transit of V1298 Tau e***  
**Feinstein A. D.**, David T. J., Montet B. T. et al. 2022, ApJL, 925, L2. [arXiv:2111.08660](#) (Citations: 15)
5. ***Testing Self-Organized Criticality Across the Main Sequence using Stellar Flares from TESS***  
**Feinstein A. D.**, Seligman D. Z., Günther M. N., & Adams F. C. 2022, ApJL, 925, L9. [arXiv:2109.07011](#) (Citations: 13)
6. ***H $\alpha$  and Ca II Infrared Triplet Variations During a Transit of the 23 Myr Planet V1298 Tau c***  
**Feinstein A. D.**, Montet B. T., Marshall J. C., et al. 2021, AJ, 162, 213. [arXiv:2107.01213](#) (Citations: 22)
7. ***Flare Statistics for Young Stars from a Convolutional Neural Network Analysis of TESS Data***  
**Feinstein A. D.**, Montet B. T., Ansdell M., et al. 2020, AJ, 160, 5. [arXiv:2005.07710](#) (Citations: 76)
8. ***stella: Convolutional Neural Networks for Flare Identification in TESS***  
**Feinstein A. D.**, Montet B. T., & Ansdell M. 2020, The Journal of Open Source Software, 5, 2347. (Citations: 21)
9. ***eleanor: An open-source tool for extracting light curves from the TESS Full-Frame Images***  
**Feinstein A. D.**, Montet B. T., Foreman-Mackey D. et al. 2019 PASP, 131, 1003. [arXiv:1903.09152](#) (Citations: 180)
10. ***K2-288Bb: A small temperate planet in a low-mass binary system discovered by citizen scientists***  
**Feinstein A. D.**, Schlieder J. E., Livingston J. H., et al. 2019 AJ, 157, 2. [arXiv:1902.02789](#) (Citations: 15)

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## **SIGNIFICANT CONTRIBUTIONS (18)**

11. ***The Featherweight Giant: Unraveling the Atmosphere of a 17 Myr Planet with JWST***  
Thao P., Mann A. W., **Feinstein A. D.**, et al. submitted to AAS Journals.

12. *Searching for Variable Atmospheric Outflows from WASP-69b with Contemporaneous Palomar/WIRC Metastable He and SWIFT High-Energy Data*  
Levine W. G., Vissapragada S., **Feinstein A. D.**, et al. submitted to AAS Journals.
13. *Detection of SO<sub>2</sub> in the Mid-Infrared Transmission Spectrum of WASP-39b*  
Powell D., **Feinstein A. D.**, Lee E. K. H., et al. Accepted at Nature.
14. *Potential Melting of Extrasolar Planets by Tidal Dissipation*  
Seligman D. Z., **Feinstein A. D.**, Lai D., et al. 2024, ApJ, 961, 22.
15. *Avalanches and the Distribution of Reconnection Events in Magnetized Circumstellar Disks*  
Fatuzzo M., Adams F. C., **Feinstein A. D.**, & Seligman D. Z. 2023, ApJ, 954, 1.
17. *A broadband thermal emission spectrum of the ultra-hot Jupiter WASP-18b*  
Coulombe L-P., et al. inc. **Feinstein A. D.**, et al. 2023, Nature, 620, 7973.
18. *Awesome SOSS: Transmission Spectroscopy of WASP-96b with NIRISS/SOSS*  
Radica M., Welbanks L., Espinoza N., Taylor J., Coulombe L-P., **Feinstein A. D.**, et al. 2023, MNRAS, 524, 1.
19. *TESS Asteroseismic Analysis of HD 76920: The Giant Star Hosting An Extremely Eccentric Exoplanet*  
Jiang C., Wu T., **Feinstein A. D.**, et al. 2023, ApJ, 945, 20.
20. *Eureka!: An End-to-End Pipeline for JWST Time-Series Observations*  
Bell T. J., Ahrer E., Brande J., Carter A. L., **Feinstein A. D.**, et al. 2022, The Journal of Open Source Software, 7, 4503.
21. *The NASA GSFC TESS Full Frame Image Light Curve Data Set*  
Powell B. P., Kruse E., Montet B. T., **Feinstein A. D.**, et al., 2022, Res. Notes AAS, 6, 111.
22. *Inferring Late Stage Enrichment of Exoplanet Atmospheres from Observed Interstellar Comets*  
Seligman D. Z., Adams F. C., Becker J., **Feinstein A. D.**, & Rogers, L. A. 2022, ApJL, 933, L7.
23. *Theoretical and Observational Evidence for Coriolis Effects in Coronal Magnetic Fields of Main Sequence Stars Via Direct Current Driven Flaring Events*  
Seligman D. Z., Rogers, L. A., **Feinstein A. D.**, et al. 2022, ApJ, 929, 54.
24. *Evidence for Centrifugal Breakout around a 45 Million Year Old M Dwarf*  
Palumbo E. K., Montet B. T., **Feinstein A. D.**, et al. 2022, ApJ, 925, 75.
25. *The TESS View of LOFAR Radio-Emitting Stars*  
Pope B. J. S., Callingham J. R., **Feinstein A. D.**, et al. 2021, ApJL, 919, L10.
26. *H-Alpha Variability of V1298 Tau c*  
Schlawin E., Ilyin I., **Feinstein A. D.**, et al. 2021, RNAAS, 5, 195. doi:10.3847/2515-5172/ac1f2f.
27. *Low-frequency monitoring of flare star CR Draconis: Detection of long-term electron-cyclotron maser emission*  
Callingham J. R., Pope B. J. S., **Feinstein A. D.**, et al. 2021, MNRAS, 648, A13.

28. *TOI 122b and TOI 237b, two small warm planets orbiting inactive M dwarfs, found by TESS*  
Waalkes W. C., Berta-Thompson Z. K., Collins K. A., **Feinstein A. D.**, et al. 2020, AJ, 161, 13.
29. *TOI-1338: TESS' First Transiting Circumbinary Planet*  
Kostov V. B., Orosz J. A., **Feinstein A. D.**, et al. 2020, AJ, 159, 253.
30. *Differences in signal contrast and camouflage among different colour variations of a stomatopod crustacean*  
Franklin A. M., Marshall J., **Feinstein, A. D.**, et al. 2020, Sci Rep 10, 1236.
31. *The Young Planet DS Tuc Ab has a Low Obliquity*  
Montet B. T., **Feinstein A. D.**, Luger R. et al. 2020, AJ, 159, 112.
32. *K2-136: A binary system in the Hyades open cluster hosting a Neptune-sized planet*  
Ciardi D. R., Crossfield I. J. M., **Feinstein, A. D.**, Luger R. et al. 2020, AJ, 159, 112.

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## OTHER REFEREED PUBLICATIONS (24) (+1 IN PREP)

33. *TESS rotation rates in the Hyades tidal tails: using gyro chronology to catalogue high-probability cluster members* - Hall O., Jerabkova T., Angus R., et al. in prep.
34. *OI and CII Escape Detected while HI Escapes Detection on the young sub-Neptune AU Mic c* - Rockcliffe K., Newton E., Youngblood A., et al. submitted to AAS Journals.
35. *Quenching-driven equatorial depletion and limb asymmetries in hot Jupiter atmospheres: WASP-96b example* - Zamyatina M., Christie D. A., Hébrard E., et al. 2024, MNRAS, 529, 1776.
36. *X-ray and optical observations of the young M dwarf dipper star TIC 234284556* - Poppenhaeger K., Montet B., Alvarado-Gómez J., et al. 2023, Research Notes of the American Astronomical Society, 7, 200.
37. *Awesome SOSS: Atmospheric Characterization of the Early Release Observations of WASP-96b* - Taylor J., Radica M., Welbanks L., et al. 2023, MNRAS, 524, 1.
38. *Updated Planetary Mass Constraints of the Young V1298 Tau System using MAROON-X* - Sikora J., Rowe J., Barat S., et al. 2023, ApJ, 165, 250.
39. *Direct Evidence of Photochemistry in an Exoplanet Atmosphere* - Tsai S-M. Lee E. K. H., Powell D., et al. 2023, Nature, 617, 483.
40. *Early Release Science of the exoplanet WASP-39b with JWST NIRSpec G395H* - Alderson, L., Wakeford, H. R., Alam, M. K., et al. 2023, Nature, 614, 664.
41. *Early Release Science of the exoplanet WASP-39b with JWST NIRSpec PRISM* - Rustamkulov Z., Sing D., et al. 2023, Nature, 614, 659.
42. *Early Release Science of the exoplanet WASP-39b with JWST NIRCам* - Ahrer E-M., Stevenson K., Mansfield M. et al. 2023, Nature, 614, 653.

43. *Identification of carbon dioxide in an exoplanet atmosphere* - JWST Transiting Exoplanet Community Early Release Science Team et al. Nature, 614, 649.
44. *The Volatile Carbon to Oxygen Ratio as a Tracer for the Formation Locations of Interstellar Comets* - Seligman D. Z., Rogers L. A., Cabot S. H. C., et al. 2022, PSJ, 3, 150.
45. *Complex Modulation of Rapidly Rotating Young M Dwarfs: Adding Pieces to the Puzzle* - Günther M. N., Berardo D. A., Ducrot E. et al. 2022, AJ, 163, 144.
46. *Extending the evolution of the stellar mass-size relation at  $z \leq 2$  to low stellar mass galaxies from HFF and CANDELS* - Nedkova K. V., Häußler B., Marchesini D., et al., 2021, MNRAS, 506, 1.
47. *Enhanced and Persistent Flare Driven Bio-indicating Chemistry on Synchronously-Rotating Rocky Worlds* - Chen H., Zhan Z., Youngblood A. et al. Nature Astronomy, 2021, 5, 298.
48. *TOI-954b and K2-329b: Short-Period Saturn-Mass Planets that Test Whether Irradiation Leads to Inflation* - Sha L., Huang C. X., Shporer A., et al. 2021, AJ, 161, 82.
49. *Revisiting the HD 21749 Planetary System with Stellar Activity Modeling* - Gan T., Wang S. X., Teske J. K. et al. 2020, MNRAS, 501, 6042.
50. *TOI-824 b: A New Planet on the Lower Edge of the Hot Neptune Desert* - Burt J. A., Nielsen L. D., Quinn S. N., et al. 2020, AJ 160, 153.
51. *TESS-Point: High precision TESS pointing tool* - Burke C. J., Levine A., Fausnaugh M. et al. 2020, Astrophysics Source Code Library.
52. *Planet Hunters TESS I: TOI 813, a subgiant hosting a transiting Saturn-sized planet on an 84-day orbit* - Eisner N. L., Barragán O., Aigrain S., et al. 2020, MNRAS, 148.
53. *THOR 42: A touchstone ~24 Myr-old eclipsing binary spanning the fully-convective boundary* - Murphy S. J., Lawson W. A., Onken C. A., et al. 2019, MNRAS, 2794.
54. *A super-Earth and two sub-Neptunes transiting the bright nearby, and quite M-dwarf TOI-270* - Günther M. N., Pozuelos F. J., Dittmann J. A., et al. 2019, Nature Astronomy, 3, 1099.
55. *The L 98-59 System: Three transiting terrestrial-size planets orbiting a nearby M dwarf* - Kostov V. B., Schlieder J. E., Barclay T., et al. 2019, AJ, 158, 32.
56. *Characterizing K2 candidate planetary systems orbiting low-mass stars IV: Updated properties for 86 cool dwarfs observed during campaigns 1-17* - Dressing C. D., Hardegree-Ullman K., Schlieder J. E., et al. 2019, AJ, 158, 87.
57. *A TESS Dress Rehearsal: Planetary Candidates and Variables from K2 Campaign 17* - Crossfield I. J. M., Guerrero N., David T., et al. 2018 AJ, 239, 1.
58. *HFF-Deepspace photometric catalogs of the twelve Hubble Frontier Fields , clusters, and parallels: Photometry, photometric redshifts, and stellar masses* - Shipley H., Lange-Vagle D., Marchesini D., et al. 2018 ApJS, 235, 14.
59. *Planetary Candidates from K2 Campaign 16* - Yu, L. Crossfield I. J. M., Schlieder J. E., et al. 2018 AJ, 156, 22.



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## WHITE PAPERS (2)

60. *Witnessing the Evolution of Sub-Neptunes* - **Feinstein A. D.** + 15 co-authors. White Paper as part of a series requested by the STScI Strategic Exoplanet Initiatives with HST and JWST Working Group. [Overleaf Link](#)
61. *The life cycle of stars and their planets from the high energy perspective* - Corrales L., Stassun K., Cunningham T., et al. White Paper as part of a series commissioned for the AXIS Probe Concept Mission. [arXiv:2311.07674](#)

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## TALK & POSTERS

Selected presentation slides are available on [SpeakerDeck - @afeinstein20](#); Links for specific talks are to YouTube recordings.

### *Upcoming ( \* denotes invited; ^ denotes department colloquium)*

LASP Seminar (May 16, 2024)

\* 2024 European Astronomical Society Meeting - "Young and Mischievous: close-in exoplanets around young stars" special session (Padua, Italy; July 5, 2024)

### *Seminars & Colloquia*

- \* ^ University of Maryland Department of Astronomy (February 28, 2024)
- \* Michigan State University Department of Physics & Astronomy (February 19, 2024)
- \* Penn State University Department of Astronomy & Astrophysics (February 16, 2024)
- \* National Solar Observatory "Solar/Stellar Connections Day" (February 2, 2024)
- \* ^ University of Texas at Austin Department of Astronomy (January 30, 2024)
- \* ^ Institute for Astronomy, University of Hawai'i at Mānoa (January 25, 2024)
- \* ^ Tufts University Department of Physics & Astronomy (December 1, 2023)

Cornell Exoplanet Conference (April 11, 2023)

\* Arizona State University Exoplanet Seminar (March 17, 2023)

\* Stony Brook University, Astronomy Seminar (March 7, 2023)

\* University of Wisconsin-Milwaukee (February 10, 2023)

Origins of Life Seminar Series, University of Chicago (October 20, 2022)

\* University of Colorado at Boulder (September 30, 2022)

\* Princeton University (September 26, 2022)

\* Massachusetts Institute of Technology Brown Bag Lunch (September 19, 2022)

\* University of Illinois at Urbana-Champaign Center for AstroPhysical Surveys (May, 2022)

\* Carnegie Earth & Planets Laboratory Astronomy Seminar (May, 2022; virtual)

University of Chicago Chalk Talk (November, 2021)



- \* Yale Exoplanets/Stars Seminar Series (November, 2021; virtual)
- \* Kansas University Learning Machine Learning club seminar (October, 2021; virtual)
- \* [Harvard-Smithsonian CfA Exoplanet Seminar Series](#) (October, 2021; virtual)
- Kansas University Astronomy & Space Physics Seminar (September, 2021; virtual)
- \* California Institute of Technology, Knutson Group Meeting (July, 2021; virtual)
- \* University of Maryland, College Park, Exoplanet Journal Club (August, 2019)

### **Conference Talks**

- [NASA Hubble Fellowship Program Symposium](#), Boston, MA USA (September 19, 2023)
- \* AAS 241 JWST Exoplanet Special Session, Seattle, WA USA (January 9, 2023)
- AAS 241 Ph.D. Dissertation Talk in “Young Transiting Systems & Architectures”, Seattle, WA, USA (January 11, 2023)
- AAS 240, Transiting Exoplanets III, Pasadena, CA USA (Thursday, June 16, 2022)
- [CHAMPs Exoplanet ECR Highlight Seminar](#) (January 13-14, 2022; virtual)
- \* [NASA ExoPAG 25](#) (January 10 & 12, 2022; virtual)
- Great Lakes Exoplanet Area Meeting (November 11-12, 2021)
- TESS Science Conference II (August, 2021; virtual)
  - \* [Data Analysis panelist](#)
  - \* [Machine Learning Splinter Session panelist](#)
  - \* [FFI Splinter Session speaker](#)
- Emerging Researchers in Exoplanet Science (May, 2021; virtual)
- \* AAS 237, TESS Machine Learning Special Session (January, 2021; virtual)
- \* Earth 2.0 Workshop I, Tsung-Dao Lee Institute, Shanghai (December 7-11, 2020; virtual)
- TESS Science Team Meeting #22 (September, 2020; virtual)
- [online.tess.science Working Meeting](#) (September, 2020; virtual)
- Extreme Solar Systems IV, Reykjavik, Iceland (August, 2019)
- \* 5<sup>th</sup> TESS Asteroseismic Science Consortium (TASC) Workshop, Cambridge, MA USA (July, 2019)
- TESS Science Conference I, Splinter Session, Cambridge, MA USA (July, 2019)
- \* TESS Data Workshop, Space Telescope Science Institute, Baltimore, MD USA (February, 2019)
- AAS 233, TESS Special Session, Seattle, WA USA (January, 2019)
- Lake Michigan Area Exoplanet Meeting (November, 2019)
- AAS 231, Session 104. Detection of Extrasolar Planets I, National Harbor, MD USA (January, 2018)

### **Conference Posters**

Cool Stars 21, Toulouse, France (July, 2022) | [TESS Science Conference II](#) (August, 2021; virtual) | Sagan Exoplanet Summer Virtual Workshop (July, 2021; virtual) | [Cool Stars 20.5](#) (February, 2021; virtual) | [Exoplanets III](#) (July, 2020; virtual) | TESS Science Conference I, Boston, MA USA (July, 2019) | AAS 233, Poster 140.14, Seattle, WA USA

(January, 2019) | AAS 233, Poster 467.04, Seattle, WA USA (January, 2019) | 2017 NASA Goddard Space Flight Center summer intern poster session (July, 2017) | The 4<sup>th</sup> AstroCon DC Meeting, George Washington University (August, 2017)

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## ACADEMIC SERVICE

### *Conference Organizing Committees*

Connecting Exoplanet Formation with Observations & Atmospheres, Heidelberg, Germany (July 8 - 12, 2024)  
TESS Science Conference III, Boston, MA (July 29 - August 2, 2024)

### *Referee & Panelist Service*

Nature Astronomy (2)  
NeurIPS 2021 Workshop on Machine Learning and the Physical Sciences (1)  
Journal of Open Source Software (1)  
Monthly Notices of the Royal Astronomical Society (1)  
The Astronomical Journal (5)  
NASA Exoplanets Research Program Reviewer

### *High Level Science Products on MAST & Publicly Available Catalogs*

NASA [GSFC-eleanor-lite light curves](#)  
stella [convolutional neural network models](#)  
eleanor [light curves](#)  
HFFDeepSpace: [Hubble Frontier Fields Catalogs](#)

### *Department Service (\* denotes DEI efforts)*

2021 - 2022: Co-organizer for UChicago Exoplanet Journal Club  
2020, 2021: Lead organizer for the UChicago [Virtual Graduate School Information Session](#) \*  
September, 2021: NSF Graduate Research Fellowship Panelist for UChicagoGRAD  
2020 - 2022: Lead organizer of the UChicago Graduate Admissions Reform Working Group \*  
2020 - Present: Member and Website Creator, [Inclusion, Diversity and Equity in Astronomy](#) (IDEA) \*  
2020 - Present: Website Committee, University of Chicago, Student Representative  
2019, 2020, 2021: Graduate Women in Astronomy event coordinator \*  
2019-2020: ERC Space Committee, University of Chicago, Student Representative

### *Community Service*

2023: NHFP application feedback program volunteer \*  
2023: Astronomy Mentorship Program for Upcoming Postdocs (AMP-UP) Mentor  
- Led discussion on personal website content and design for mentees (virtual; September 8, 2023)  
March, 2023; Cornell Exoplanet Conference session chair

AAS 241: "Stars and X-rays/UV" session chair  
January, 2022: CHAMPs Exoplanet ECR Highlight Seminar session chair  
2021: Aided TESS Senior Review for Extended Mission 2 (stellar flares)  
2019: LOC Member, "Building early science with TESS" Meeting, Chicago  
NASA Exoplanets Research Program Graduate Student Secretary

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## TEACHING

### *Graduate Teaching Assistant, University of Chicago*

Spring 2022: Astronomy 48900: Undergraduate Research Seminar (guest lecture)  
Spring 2021: Astronomy 12720: Exoplanets  
Fall 2020: Astronomy 12700: Stars

### *Undergraduate Teaching Assistant, Tufts University*

Spring 2018: Women Gender and Sexuality Studies 85: The Universe: Illuminated By Women  
Spring 2017: Astronomy 9: Concepts of the Cosmos  
Fall 2017: Astronomy 31: Stellar Structure & Evolution

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## OUTREACH

Letters to a Pre-Scientist pen-pal (2018-Present; 4 pen-pals to-date)  
Skype a Scientist volunteer (2018-Present; 20 classrooms to-date)  
Lifelong Learning guest lecturer (October 8, 2021; virtual)  
[Real Scientists Curator](#) (January 17-24, 2021)  
University of Chicago Physics Mentorship Program mentor (2019, 2021)  
Soapbox Science Chicago speaker (2019)  
HerStory volunteer (2019)  
Adler After Dark speaker (2019)  
Naperville Astronomical Association lecture (invited; 2019)  
Chicago Astronomical monthly lecture (invited; 2019)  
Hyde Park Neighborhood Club after-care program volunteer in the Maker Lab (2018)  
@astrotweeps guest host (2018)  
WMFO Heard Mentality guest speaker (2018)

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## MEDIA APPEARANCES

JWST Transiting Exoplanet Community Early Release Science Program NIRISS Results — [NASA Exoplanets](#); [UChicago News](#); [Sky and Telescope](#); [inverse.com](#); [SETI Live Interview](#) (12/15)

The Flares of AU Mic — Press release at [240th AAS meeting](#)

December 21 Christmas Star — [ABC7 Chicago](#); [Chicago Tribune](#)

[UChicago scientists teach a neural net to find baby star flares](#); [SciTechDaily](#)

[The Young DS Tuc Ab is Aligned](#)

[Discovery of TOI 1338b](#)

[Discovery of TOI 270](#)

Discovery of K2-288Bb — Press release at 233<sup>rd</sup> AAS meeting; [JPL press release](#); [NBC News](#); [WGN radio](#)

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