

Evan Latham Sneed

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EDUCATION

DOCTORATE OF PHILOSOPHY IN EARTH AND PLANETARY SCIENCES

University of California, Riverside

› **Advisors:** Edward W. Schwieterman & Timothy W. Lyons

SEPTEMBER 2022 – PRESENT

BACHELOR OF SCIENCE IN ASTRONOMY AND ASTROPHYSICS

Pennsylvania State University

› **Minors:** Astrobiology, Mathematics, and Physics

› **Certificate:** Science Research Distinction

› **Thesis:** *A Climatic Investigation of Ammonia as a Remote Biosignature on Cold Haber Worlds*

› **Advisor:** James F. Kasting

AUGUST 2016 – AUGUST 2020

RESEARCH & OBSERVING EXPERIENCE

GRADUATE RESEARCHER

University of California, Riverside

› **Advisors:** Edward W. Schwieterman & Timothy W. Lyons

› Researching the probability and detectability of Archean analogues throughout the habitable zone

SEPTEMBER 2022 – PRESENT

GREEN BANK TELESCOPE OBSERVER

University of California, Berkeley

› **Advisor:** Steve Croft

› 200+ hours as observer on-call

APRIL 2022 – PRESENT

POSTBACCALAUREATE RESEARCHER

Pennsylvania State University, University Park

› **Advisor:** Jason T. Wright

› Searched for “spillover” radio signals originating from systems with known planet-planet occultations using N-body modeling

JANUARY 2021 – AUGUST 2022

UNDERGRADUATE RESEARCHER

Pennsylvania State University, University Park

› **Advisor:** James F. Kasting

› Researched the habitability of terrestrial planets with hydrogen-dominated atmospheres using a one-dimensional climate model

SEPTEMBER 2017 – MAY 2020

PLANETARY CHEMISTRY & ASTROBIOLOGY INTERN

NASA Jet Propulsion Laboratory

› **Advisor:** Yuk L. Yung

› Modeled atmospheric concentrations of sulfur isotopes using ice core data and a one-dimensional photochemical model

JUNE – AUGUST 2018

TEACHING EXPERIENCE

APPOINTMENTS

TEACHING ASSISTANT

University of California, Riverside

› Astrobiology: The Search for Life in the Universe [GEO 080] (Stephen Kane & Charles Diamond)

› Oceanography [GEO 009] (Maryjo Brounce)

SEPTEMBER 2023 - PRESENT

SPRING 2024

FALL 2023

UPWARD BOUND INSTRUCTOR

Pennsylvania State University, University Park

› Astronomy: The Search for Exoplanets, The Search for Life

JUNE - JULY 2019

TEACHING ASSISTANT

Pennsylvania State University, Erie, The Behrend Campus

› General Physics: Mechanics [PHYS 211] (Michael A. Zarger)

JANUARY - MAY 2017

GUEST LECTURES

- 2024 An Infinity of Worlds: Planets and the Search for Life in the Universe [Williams: ASTR 16] (Rob Wittenmyer)
- 2023 Oceanography [UC Riverside: GEO 009] (Maryjo Brounce)
Freshman Advising Seminar in the Natural and Agricultural Sciences [UC Riverside: NASC 093] (Stephen Kane)
- 2018 Planets and Planetary System Formation [Penn State: ASTRO 420W] (Eric Feigelson)

PUBLICATIONS

REFEREED JOURNAL ARTICLES

6. Barnes, R., *et al.* (in prep.). [REDACTED].
5. **Sneed, E. L.**, *et al.* (in prep.). [REDACTED].
4. Tusay, N., Sheikh, S. Z., **Sneed, E. L.**, Farah, W., Pollak, A. W., Siemion, A., Wright, J. T. (submitted). [REDACTED].
3. Schwieterman, E. W., Fauchez, T. J., Haqq-Misra, J., Kopparapu, R. K., Angerhausen, D., Pidhorodetska, D., Leung, M., **Sneed, E. L.** (submitted). [REDACTED].
2. Li, M. G., Sheikh, S. Z., Gilbertson, C., He, M. Y., Isaacson, H., Croft, S., **Sneed, E. L.** (2023). *Developing a Drift Rate Distribution for Technosignature Searches of Exoplanets*. *The Astronomical Journal*, vol. 166(5), pg. 182. doi:10.3847/1538-3881/acf83d.
1. Tusay, N., Huston, M.J., Dedrick, C.M., Kerby, S., III, M.L.P., Croft, S., Wright, J.T., Robertson, P., Sheikh, S., Duffy, L., Foote, G., Hyde, A., Lafond, J., Mullikin, E., Parts, W., Sandhaus, P., Smith, H.H., **Sneed, E.L.**, Czech, D., Gajjar, V. (2022). *A Search for Radio Technosignatures at the Solar Gravitational Lens Targeting Alpha Centauri*. *The Astronomical Journal*, vol. 164(3), pg. 116. doi:10.3847/1538-3881/ac8358.

REPORTS & WHITE PAPERS

6. Davenport, J. R. A., *et al.* (in prep.). [REDACTED].
5. Kerins, E., Awiphan, S., Edmondson, K., Garrett, M., Heller, R., Huston, M., Kipping, D., Kopparapu, R., Haqq-Misra, J., Price D. C., Siemion, A., Sharma, S., **Sneed, E. L.**, Socas-Navarro, H., Wilson, R., Wright, J. (2023). *RoSETZ: Roman Survey of the Earth Transit Zone - A SETI-Optimized Survey for Habitable-Zone Exoplanets*. *NASA Roman Core Community Survey*. arXiv:2306.10202.
4. Haqq-Misra, J., Ashtari, R., Benford, J., Carroll-Nellenback, J., Döbler, N.A., Farah, W., Fauchez, T.J., Gajjar, V., Grinspoon, D., Huggahalli, A., Kopparapu, R.K., Lazio, J., Profitiliotis, G., **Sneed, E.L.**, Varghese, S.S., Vidal, C. (2022). *Opportunities for Technosignature Science in the Planetary Science and Astrobiology Decadal Survey*. *The First Penn State SETI Symposium*. arXiv:2209.11685.
3. Strauss, B.E., Borges, S.R., Faridani, T., Grier, J.A., Kihne, A., Maier, E.R., Olsen, C., O'Neill, T., Rivera-Valentin, E.G., **Sneed, E.L.**, Waller, D., Zamloot, V. (2020). *Nonbinary Systems: Looking Towards the Future of Gender Equity in Planetary Science*. *Planetary Science and Astrobiology Decadal Survey 2023-2032*. doi:10.3847/25c2cfcb.3dda24c5.
2. Sheikh, S.Z., Berea, A., Davis, R., de la Torre, G.G., DeMarines, J., Fisher, T., Foote, S., Gelino, D., Grinspoon, D., Profitiliotis, G., Sessa, A.M., Singam, C., **Sneed, E.L.**, Vidal, C., Wright, J.T. (2020). *Technosignatures as a Priority in Planetary Science*. *Planetary Science and Astrobiology Decadal Survey 2023-2032*. doi:10.3847/25c2cfcb.93bdfef43.
1. Kopparapu, R., Arney, G., Domagal-Goldman, S., Schwieterman, E., Hartnett, H.E., Kiang, N.Y., **Sneed, E.L.**, Reinhard, C.T., Dong, C., Hébrard, E., Anbar, A., Santos, N.C., Turner, N. (2020). *Strange New Worlds: Comparative Planetology of Exoplanets and the Solar System*. *Planetary Science and Astrobiology Decadal Survey 2023-2032*. doi:10.3847/25c2cfcb.479f6cc8.

PRESENTATIONS & CONFERENCES

CONTRIBUTED TALKS

- 2024 Arcean Analogue Photochemistry Across the Habitable Zone, Astrobiology Science Conference 2024, *Providence, Rhode Island*
- 2023 A Continued Search for Technosignatures During Planet-Planet Occultations, The Second Penn State SETI Symposium, *University Park, Pennsylvania*
- An Archival Search for Technosignatures During Planet-Planet Occultations, Astrobiology Graduate Conference 2023, *La Jolla, California*
- An Archival Search for Technosignatures During Planet-Planet Occultations, 241st Meeting of the American Astronomical Society, *Seattle, Washington*
- 2022 An Archival Search for Technosignatures During Planet-Planet Occultations, The First Penn State SETI Symposium, *University Park, Pennsylvania*
- An Archival Search for Technosignatures During Planet-Planet Occultations, Astrobiology Science Conference 2022, *Atlanta, Georgia*
- 2021 Exoplanet Occultations as Technosignature Targets, The 2021 Assembly of the Order of the Octopus, *Virtual*
- 2020 Eavesdropping During Planet-Planet Occultations, PSETI Center Journal Club and Seminar, *Virtual*

POSTERS

- 2023 Arcean Analogue Photochemistry Across the Habitable Zone, Exoplanets in Southern California 2023, *Pasadena, California*
- Arcean Analogue Photochemistry Across the Habitable Zone, 2023 Sagan Exoplanet Summer Workshop, *Pasadena, California*
- 2020 A Climatic Investigation of Ammonia as a Remote Biosignature III, Exoplanets III, *Virtual*
- A Climatic Investigation of Ammonia as a Remote Biosignature II, 2020 Penn State Undergraduate Exhibition, *Virtual*
- 2019 A Climatic Investigation of Ammonia as a Remote Biosignature, 9th Annual oSTEM Conference, *Detroit, Michigan*

ATTENDED

- 2024 National Science Policy Symposium 2024, *Riverside, California*
- 2023 The Third VPlanet Developer's Workshop, *Virtual*
- Astrobiology 2023: Oxygen in Planetary Biospheres, *Green Bank, West Virginia*
- Allen Telescope Array Observing School, *Hat Creek, California*
- SETI with LSST Workshop, *Seattle, Washington*
- 2021 The First VPlanet Developer's Workshop, *Virtual*
- Winter 2021 Green Bank Telescope Remote Observer Training Workshop, *Virtual*
- 2020 2020 Sagan Exoplanet Summer Workshop, *Virtual*
- 2019 Inclusive Astronomy 2, *Baltimore, Maryland*
- 2018 8th Annual oSTEM Conference, *Houston, Texas*
- 42nd COSPAR Scientific Assembly, *Pasadena, California*
- 2017 7th Annual oSTEM Conference, *Chicago, Illinois*

AWARDS & HONORS

- 2023 AAS FAMOUS (Funds for Astronomical Meetings: Outreach to Underrepresented Scientists) Travel Grant
- 2022 University of California, Riverside Chancellor's Distinguished Fellowship
- 2020 Norman Freed Undergraduate Research Award
John Sr. and Kimlyn Patishnock Undergraduate Research Award
- 2019 Out in STEM Leadership Development Program Graduate
Out in STEM Leadership Persistence Award
- 2018 Penn State Behrend Honors Program Graduate

ACADEMIC SERVICE

- 2024 Scientific Organizing Committee [Co-Chair]: The 2024 Assembly of the Order of the Octopus
- 2023 Executive Secretary: NASA Planetary Science Division Review Panel
- 2022 Local Organizing Committee: The First Penn State SETI Symposium
- 2021 Organizing Committee: The 2021 Assembly of the Order of the Octopus
- 2020 Global Organizing Committee: Exoplanets III
Equal Opportunity Planning Committee: Penn State Astronomy Department

COMMUNITY SERVICE & OUTREACH

SCIENCE OUTREACH

- Camp Instructor: Camp Highlander JULY 2023 - PRESENT
- Committee Member: Geology Education Outreach Program (GEOP) JANUARY 2023 - PRESENT
- Volunteer: Penn State Department of Astronomy AUGUST 2017 – AUGUST 2021
 - Contributed Talk for AstroFest: *How to Make a (Habitable) Planet* AUGUST 2020
 - Contributed Talk for AstroFest: *Fly Me to (Saturn's) Moon* JULY & OCTOBER 2019
- Invited Speaker: Astronomy on Tap State College SEPTEMBER 2020
- Podcast Guest: "Assigned Scientist at Bachelor's" SEPTEMBER 2020
- Volunteer: Penn State Center for Sexual & Gender Diversity AUGUST 2017 – MAY 2020
- Mentor: Nate Anderson (High School Student, now UMich Engineering Undergrad) JULY 2019 – MARCH 2020
- Judge: Mars 2020 Name The Rover Contest NOVEMBER 2019 – MARCH 2020
- Volunteer: Science U "Life in Space!" Day Camp JULY 2019
- Planetarium Assistant: Yahn Planetarium at Penn State Behrend MAY – AUGUST 2017
- Volunteer: Penn State Behrend School of Science AUGUST 2016 – AUGUST 2017

ORGANIZATIONAL INVOLVEMENT & LEADERSHIP

- Queer Graduate Student Association NOVEMBER 2022 - PRESENT
 - Vice President OCTOBER 2023 – PRESENT
- SciComm @ UCR OCTOBER 2022 - PRESENT
 - Secretary OCTOBER 2023 – PRESENT
- Towards a More Inclusive Astronomy (TaMIA) JANUARY 2019 – AUGUST 2021
- Out in STEM (oSTEM) at Penn State FEBRUARY 2019 – MAY 2020
 - President FEBRUARY 2019 – MAY 2020
 - Secretary MARCH 2018 – FEBRUARY 2019
 - Webmaster SEPTEMBER 2017 – MARCH 2018

- › Penn State Astronomy Club
 - › Treasurer
 - › Webmaster

APRIL 2019 – MAY 2020
APRIL 2019 – MAY 2020
SEPTEMBER 2018 – APRIL 2019

AFFILIATIONS & MEMBERSHIP

- › Alternative Earths Astrobiology Center (AEAC)
- › American Astronomical Society (AAS) [Graduate Student Member]
 - › Division on Dynamical Astronomy (DDA)
 - › Division for Planetary Sciences (DPS)
- › Committee on Space Research (COSPAR) [Associate Member]
- › International Society of Nonbinary Scientists (ISNBS)
- › National Science Policy Network (NSPN) [Early Career Member]
- › Nexus for Exoplanet System Science (NExSS) [Affiliate Member]
- › Out in Science, Technology, Engineering, and Mathematics, Incorporated (oSTEM)
- › Penn State Extraterrestrial Intelligence Center (PSETI) [Affiliate Member]
- › Scientific Society for Astrobiology (SSA) [Student Member]
- › University of California, Berkeley SETI Research Center (BSRC)