

# Logan Pearce

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## EDUCATION

### UNIVERSITY OF ARIZONA

PhD in ASTRONOMY

August 2024 | Tucson, AZ

### UNIVERSITY OF TEXAS AT AUSTIN

BS in ASTRONOMY (HONORS)

BS in PHYSICS

May 2019 | Austin, TX

Cum. GPA: 3.93 / 4.0

### MA in EDUCATION

August 2014 | Austin, TX

Conc. in Secondary Engineering Ed.

Cum. GPA: 3.95 / 4.0

### NAVAL NUCLEAR POWER TRAINING COMMAND

REACTOR PLANT OPERATIONS & THEORY

March 2005 - March 2006 |

Charleston, SC & Ballston Spa, NY

### PURDUE UNIVERSITY

BS in CHEMISTRY

May 2003 | W. Lafayette, IN

Cum. GPA: 3.11 / 4.0

## LINKS

Website:// [loganpearce.com](http://loganpearce.com)

Github:// [github.com/logan-pearce](https://github.com/logan-pearce)

LinkedIn:// [loganpearce](https://www.linkedin.com/in/loganpearce)

Bluesky:// [@loganpearce.com](https://bluesky.social/@loganpearce)

## WORK EXPERIENCE

### UNIV. OF MICHIGAN | ELT FELLOW POSTDOCTORAL RESEARCHER

August 2024 | Ann Arbor, MI

### UNIV. OF ARIZONA STEWARD OBSERVATORY | GRADUATE RESEARCH ASSISTANT

August 2019 - August 2024 | Tucson, AZ

- PhD candidate in astronomy with specialty in high-contrast imaging.
- Completed requirements for a master's degree in astronomy in Nov 2021.
- NSF GRFP fellow.
- NSF GRFP INTERN program supplemental funding recipient
- Assisted ~20 students with NSF GRFP application preparation as a consultant with the UA GRFP Application Development Program.
- Taught exoplanet-based research projects to student veteran cohorts as part of the Warrior Scholar Project in summer 2020, 2021, and 2022.
- Taught workshops and consulted on application materials for ~25 student veterans applying to graduate school via the Diana Davis Spencer Scholars program.
- Founded the Student Veteran Research Network in August 2021.

### UNIV. OF TEXAS AT AUSTIN | RESEARCH ASSISTANT + LAB

TECHNICIAN + WRITING CENTER CONSULTANT

August 2015 – August 2019 | Austin, TX

- Assisted >250 students on any piece of writing at any stage as a University Writing Center Consultant for 3 semesters.
- Assisted in all aspects of fabrication and testing of the VIRUS spectroscopic instrument for the Hobby Eberly Telescope Dark Energy Experiment for 2 semesters.

### KEALING MIDDLE SCHOOL | TEACHER, PHYSICS AND ENGINEERING

Aug 2009 – May 2015 | Austin, TX

- Created and implemented accelerated physics curriculum for 6th grade.
- Developed and implemented two engineering elective courses on flight and space exploration.
- Lead a team of ~20 teachers as 6th grade team leader, 2013-2015.
- Obtained master's degree in engineering education in August 2014.

### US NAVY | OFFICER, NUCLEAR POWER SPECIALIST

Mar 2006 – May 2008 | USS John C. Stennis (CVN-74), Bremerton, WA

- Managed all aspects of reactor plant operations as reactor Propulsion Plant Watch Officer in both at-sea wartime and maintenance conditions.
- Managed a team of 30 mechanics maintaining potentially-contaminated reactor plant systems as Mechanical Maintenance Division Officer.

May 2003 – Mar 2005 | USS Samuel B. Roberts (FFG-58), Mayport, FL

- Managed a team of 10 electronics technicians as Combat Electronics Division Officer.
- Managed all aspects of bridge and combat center operations as Bridge and Combat Center Watch Officer.

# PUBLICATIONS (REFEREED, SELECTED)

## FIRST AUTHOR

- Pearce, L. A., Limbach, M., Males, J. R. (2025) Direct Detection of Known Exoplanets in Reflected Light: Predicting Sky Position with Literature Orbit Solutions, *PASP*, 137, 094401, doi: 10.1088/1538-3873/ae015e
- Pearce, L. A., Males, J. R., Haffert, S. Y., Close, L. M., Long, J. D., et al. (2025) Five New Sirius-Like Systems with MagAO-X, *AJ*, 170, 58P, doi: 10.3847/1538-3881/addb50
- Pearce, L. A., Limbach, M. A., et al. (2025) We can directly image super-Earth-sized planets near the habitable zone of Sirius B with JWST/MIRI, *JWST Program*. Cycle 4, ID. #7612
- Pearce, L. A., Males, J. R., Haffert, S. Y., Close, L. M., Long, J. D., et al. (2023) HIP 67506 C: MagAO-X confirmation of a new low-mass stellar companion to HIP 67506 A *Monthly Notices of the Royal Astronomical Society* 521, 4775, doi: 10.1093/mnras/stad859
- Pearce, L. A., Males, J. R., Weinberger, A. J., Long, J. D., Morzinski, K. M., et al. (2022) Companion mass limits for 17 binary systems obtained with binary differential imaging and MagAO/Clio *Monthly Notices of the Royal Astronomical Society* 515, 4487
- Pearce, L. A., Kraus, A. L., Dupuy, T. J., Mann, A. W., Huber, D. (2021) Boyajian's Star B: The Co-moving Companion to KIC 8462852 A *The Astrophysical Journal* 909, 216
- Pearce, L. A., Kraus, A. L., Dupuy, T. J., Mann, A. W., Newton, E. R., et al. (2020) Orbital Parameter Determination for Wide Stellar Binary Systems in the Age of Gaia *The Astrophysical Journal* 894, 115
- Pearce, L. A., Kraus, A. L., Dupuy, T. J., Ireland, M. J., Rizzuto, A. C., et al. (2019) Orbital Motion of the Wide Planetary-mass Companion GSC 6214-210 b: No Evidence for Dynamical Scattering *The Astronomical Journal* 157, 71

## CONTRIBUTING AUTHOR

- Venner, A., Limbach, M., Mâlin, M., Blouin, S., Boccaletti A., & Pearce, L. (2025) Serendipitous observation of a white dwarf companion to a JWST/MIRI coronagraphic calibrator *Monthly Notices of the Royal Astronomical Society*, 536, 1
- Barber M. G., Mann, A. W., et al. (Pearce, L. A., 7 of 35) (2024) A giant planet transiting a 3-Myr protostar with a misaligned disk *Nature* 635, 8039
- Hagelberg, J., Nielsen, L. D., Attia, O., Bourrier, V., Pearce, L. et al. (2023) TOI-858 B b: A hot Jupiter on a polar orbit in a loose binary *Astronomy & Astrophysics*, 679, A70
- Long, J. D., Males, J. R., Haffert, S. Y., Pearce, L., et al. (2023) Improved Companion Mass Limits for Sirius A with Thermal Infrared Coronagraphy Using a Vector-apodizing Phase Plate and Time-domain Starlight-subtraction Techniques *The Astronomical Journal*, 165, 5
- Dupuy, T. J., Liu, M. C., Evans, E. L., Best, W. M. J., Pearce, L. A., et al. (2023) On the masses, age, and architecture of the VHS J1256-1257AB b system *Monthly Notices of the Royal Astronomical Society* 519, 1688
- Venner, A., Pearce, L. A., Vanderburg, A. (2022) An edge-on orbit for the eccentric long-period planet HR 5183 b *Monthly Notices of the Royal Astronomical Society* 516, 3431
- Christian, S., Vanderburg, A., Becker, J., Yahalom, D. A., Pearce, L., et al. (2022) A Possible Alignment Between the Orbits of Planetary Systems and their Visual Binary Companions *The Astronomical Journal* 163, 207
- Venner, A., Vanderburg, A., Pearce, L. A. (2021) True Masses of the Long-period Companions to HD 92987 and HD 221420 from Hipparcos-Gaia Astrometry *The Astronomical Journal* 162, 12
- Czech, D., Isaacson, H., Pearce, L., Cox, T., Sheikh, S. Z., et al. (2021) The Breakthrough Listen Search for Intelligent Life: MeerKAT Target Selection *Publications of the Astronomical Society of the Pacific* 133, 064502
- Newton, E. R., Mann, A. W., Tofflemire, B. M., Pearce, L. A., Rizzuto, A. C., et al. (2019) TESS Hunt for Young and Maturing Exoplanets (THYME): A Planet in the 45 Myr Tucana-Horologium Association *The Astrophysical Journal* 880, L17

# PRESENTATIONS (SELECTED)

## INVITED TALKS

- Invited speaker, CEHW Seminar Penn State, Dec 2024
- Invited review talk, Frank Bash Symposium, UT Austin, Sep 2025
- Invited speaker, IFA Exoplanets Lunch Seminar Univ of Hawai'i, Sep 2023
- Invited speaker, Exoplanets Seminar Univ of Cali. Berkeley, Jun 2023
- Invited speaker, Lab for Adaptive Optics Seminar Univ of Cali. Santa Cruz, Jun 2023
- Invited speaker, APS Lunch Seminar Univ of Colorado, Oct 2022
- Invited speaker, Gemini Observatory North, Hilo HI, Feb 2019

## CONTRIBUTED TALKS

- Magellan Science Meeting, Carnegie Inst., Apr 2025
- Other Worlds Laboratory, Santa Cruz CA, Jul 2023
- Bay Area Exoplanets Meeting, Mountain View CA, Apr 2023
- Alien Earths All Hands Meeting, Tucson AZ, Feb 2023
- Steward Observatory Internal Symposium, Nov 2022

## OUTREACH TALKS

- Veteran Status as a DEI Identity, UM Astro Equi-Tea, Feb 2025
- Student Veterans of America National Convention, Orlando FL, 2022
- Astronomy on Tap Tucson, Dec 2021. Link: <https://www.youtube.com/watch?v=y-04uo6zsGE>
- Astronomy on Tap ATX, May 2019. Link: <https://www.youtube.com/watch?v=KAZRro0Qd7Y&t=291s>
- Univ of Texas Astronomy Board of Visitors Winter Meeting, Feb 2019

## POSTERS

- GMT Science Meeting, Washington DC, 2023
- Astrobiology Graduate Student Conference, San Diego, 2023
- Spirit of Lyot 2022, Leiden Netherlands, 2022
- AAS Division of Dynamical Astronomy, virtual, 2021
- Exoplanets III, virtual, 2020
- 233rd American Astronomical Society Meeting, Seattle, WA, 2019

## WORKSHOPS

- Various, Diana Davis Spencer Scholars, Warrior Scholar Project, 2022-2023
- Research Project Leader, Warrior Scholar Project, 24 July - 29 July 2022
- PhD and Grad School Basics, SVRN (virtual), June 2022
- Resume/CV Workshop, UA VETS Center, Jan 2022
- Graduate School Application, UA VETS Center, Fall 2021
- Research Project Leader, Warrior Scholar Project, 25 July - 30 July 2021
- Research Project Leader, Warrior Scholar Project, 21 June - 26 June 2020

# OBSERVING TIME AWARDED

## As PI

- JWST GO 7612: 30 hours
- MagAO-X: 54 hours
- Gemini/NIFS: 2 hours

# AWARDS AND FELLOWSHIPS

## POSTDOCTORAL

- |        |                                      |                     |
|--------|--------------------------------------|---------------------|
| 2026   | Grand Canyon Astronomer In Residence | UMich Office of DEI |
| 2025   | DEI Certificate                      | UMich Astronomy     |
| 2024 - | ELT Postdoctoral Fellowship          |                     |

## GRADUATE

2024	Graduate Service Award	Steward Observatory
2023	NSF GRFP INTERN Supplemental Funding	to NASA Ames, April-Sept 2023
2021	Travel Grant	UArizona Graduate and Professional Student Council
2019	Graduate Research Fellowship	National Science Foundation

## UNDERGRADUATE (SELECTED)

2019	Dean's Honored Graduate	Univ of Texas College of Natural Sciences
2019	George Mitchell Award	Univ of Texas Co-op
2019	Ralph Cutler Green Endowed Scholarship	Univ of Texas Astronomy/ McDonald Observatory Board of Visitors
2018	Astronaut Scholar	Astronaut Scholarship Foundation
2018	Barry Goldwater Scholar	Barry Goldwater Scholarship and Excellence in Education Foundation

## OTHER

2009	Teacher of Promise	Kealing MS, Austin TX
2008	US Navy Commendation Medal	USS John C. Stennis (CVN-74)

## BROADER IMPACTS

2026	Grand Canyon Conservancy	Astronomer in Residence
2025-2026	Organizer	Astronomy on Tap Ann Arbor
2025-2026	Member	UMich Astro EquiTEA
2025	DEI Certificate	UMich Office of DEI
2025	Science Organizing Committee	Magellan Science Conference
2024	Panelist & Moderator	Conference for Undergraduate Women in Physics
2022-2023	Mentor & Consultant	Diana Davis Spencer Scholars/ Warrior Scholar Project
2021-	Founder	Student Veterans Research Network
2020-2022	Research Project Leader	Warrior Scholar Project
2020-2021	Liaison	Steward Observatory DEI Mentoring Task Force
2019-2024	Host/ Lead organizer	SpaceDrafts (Astronomy on Tap Tucson)
2016-2019	Graphics and Merchandise	Astronomy on Tap ATX
2016-2019	UG Representative	University of Texas Astronomy Department
2016-2017	Co-author	White paper for UT Astro Dept external review
2017	Co-founder	Undergraduate Astronomy Journal Club
2018	Peer mentor	Student Veteran Association

## REFERENCES

Dr. Mary Anne Limbach	Univ of Michigan (mlimbach@umich.edu )
Dr. Jared Males	Steward Observatory, Univ of Arizona (jrmale@email.arizona.edu)
Dr. Natasha Batalha	NASA Ames (natasha.e.batalha@nasa.gov)
Dr. Alycia Weinberger	Carnegie EPL (aweinberger@carnegiescience.edu)
Dr. Adam Kraus	University of Texas at Austin (alk@astro.as.utexas.edu)