

Logan Pearce

Graduate student | NSF Graduate Fellow | Univ of Arizona & Steward Observatory

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EDUCATION

UNIVERSITY OF TEXAS 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

PURDUE UNIVERSITY

BS IN CHEMISTRY

May 2003 | W. Lafayette, IN

Cum. GPA: 3.11 / 4.0

LINKS

Professional:// loganpearcescience.com

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

Twitter:// [@loganpearce](https://twitter.com/loganpearce)

Photography:// loganpearce.com

WORK EXPERIENCE

UNIV. OF ARIZONA STEWARD OBSERVATORY | GRADUATE

RESEARCH ASSISTANT

August 2019 - Current | Tucson, AZ

UNIV. OF TEXAS AT AUSTIN | RESEARCH ASSISTANT + LAB

TECHNICIAN + WRITING CENTER CONSULTANT

August 2015 – August 2019 | Austin, TX

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.
- 6th grade team leader, 2013-2015.

US NAVY | OFFICER, NUCLEAR POWER SPECIALIST

Mar 2005 – May 2008 | USS John C. Stennis (CVN-74), Bremerton, WA

- Reactor plant chief operator
- Mechanical maintenance division officer

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

- Electronic warfare division officer
- Bridge and Combat Center watch officer

PUBLICATIONS

Refereed Publications: First Author

- Logan A. Pearce, Adam L. Kraus, Trent J. Dupuy, Andrew W. Mann, Elisabeth R. Newton, Benjamin M. Tofflemire, Andrew Vanderburg. (Accepted to AAS Journals) *Orbital Parameter Determination for Wide Stellar Binary Systems in the Age of Gaia*
- Logan A. Pearce, Adam L. Kraus, Trent J. Dupuy, Michael Ireland, Aaron C. Rizzuto, Brendan Bowler, Eloise K. Birchall, and Alexander L. Wallace. (2019) *Orbital motion of the wide planetary-mass companion GSC6214-210 b: No evidence for dynamical scattering* AJ 157:71, doi: 10.3847/1538-3881/aafacb

Refereed Publications: Contributing Author

- Elisabeth R. Newton, Andrew W. Mann, Benjamin M. Tofflemire, Logan A. Pearce et. al. (2019). *TESS Hunt for Young and Maturing Exoplanets (THYME) I: A planet in the 45 Myr Tucana-Horologium association* ApJ 880:17, doi: 10.3847/2041-8213/ab2988
- L. D. Nielsen, R. Brahm, F. Bouchy, N. Espinoza, O. Turner, S. Rappaport, L. Pearce, et al. (Accepted to A&A). *Three Short Period Jupiters from TESS.*

Refereed Publications: Co-Author

- Blunt, Sarah, et al. (Pearce, Logan, 11 of 13) (2019) *orbitize!: A Comprehensive Orbit-fitting Software Package for the High-contrast Imaging Community* AJ 159:89 doi: 10.3847/1538-3881/ab6663
- Andrew W. Mayo et. al (Pearce, Logan, 23 of 30) (2019) *An 11 Earth-Mass, Long-Period Sub-Neptune Orbiting a Sun-like Star* AJ 158:165M, doi:10.3847/1538-3881/ab3e2f
- Andrew Vanderburg, et. al. (Pearce, Logan, 36 of 51) (2019). *TESS SPOTS A COMPACT SYSTEM OF SUPER-EARTHS AROUND THE NAKED-EYE STAR HR 858* ApJ 881:19
- Gaidos, E.; Jacobs, T.; LaCourse, D.; Vanderburg, A.; Rappaport, S.; Berger, T.; Pearce, L. (7 of 16) (2019) *Planetesimals around stars with TESS (PAST) - I. Transient dimming of a binary solar analogue at the end of the planet*

accretion era

- Steckloff, J.K., Soderblom, J.M., Farnsworth, K., Chevrier, V., Hanley, J., Soto, A., Jessica, G., Grundy, W., **Pearce, L.** (Submitted to Nature Astronomy). ***The Evaporation-Induced Stratification of Titan's Lakes***
- Cook, Jason, et. al. (Pearce, Logan A, 26 of 28) (2019) ***The Distribution of H₂O, CH₃OH, and Hydrocarbon-ices on Pluto: Analysis of New Horizons Spectral Images*** Icarus, Volume 331, p. 148-169.

Non-Refereed Publications

- Logan A. Pearce, Adam L. Kraus, Trent J. Dupuy, Michael Ireland, Aaron C. Rizzuto, and Brendan Bowler., 2019, American Astronomical Society Meeting Abstracts, 233. ***Orbital motion of the wide planetary-mass companion GSC6214-210 b: No evidence for dynamical scattering***
- J. Hanley, J. Groven, W. Grundy, L. Pearce, S. Dustrud, G. Lindberg, S. Tegler. AAS DPS, Knoxville, TN, Oct 2018. ***Characterization of Possible Two Liquid Layers in Titan Seas.***
- Pearce, Logan; Kraus, Adam L., 2018, American Astronomical Society Meeting Abstracts, 231, 148.22. ***Orbital Motion of the Wide Planetary Mass Companion GSC 6214-210 b***
- Hanley, J.; Grundy, W.; Thompson, G.; Pearce, L.; Dustrud, S.; Lindberg, G.; Tegler, S. C.; Roe, H. G. (2017), American Astronomical Society, DPS meeting 49, id.301.02. ***Methane, Ethane, and Nitrogen Stability on Titan and Other Icy Bodies***
- Pearce, Logan; Kraus, Adam L., 2017, American Astronomical Society Meeting Abstracts, 230, 118.05. ***Constraining the allowed orbits of the directly imaged planetary mass companion GSC 6214-210b***
- Hanley, J.; Pearce, L.; Thompson, G.; Grundy, W.; Roe, H; Dustrud, S.; Trilling, D.; Tegler, S. (2017), 48th Lunar and Planetary Science Conference, Contribution No. 1964, id.1686. ***Methane, Ethane, and Nitrogen stability on Titan***

PRESENTATIONS

INVITED TALKS

- Invited speaker, Gemini Observatory North, Hilo HI, Feb 2019

CONTRIBUTED TALKS

- Steward Observatory Internal Symposium, Nov 2019
- Texas Undergraduate Research Symposium, University of Texas at Austin, Oct 2018
- Texas Undergraduate Research Symposium, Rice University, Oct 2017
- Gulf Coast Undergraduate Research Symposium, Rice University, Oct 2016
- Fall Undergraduate Research Symposium, University of Texas at Austin, Sep 2016
- Texas Astronomy Undergraduate Research Symposium, Baylor University, Sep 2016
- REU Symposium, Northern Arizona University, Aug 2016

OUTREACH TALKS

- 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
- Astronomy Student's Association, University of Texas at Austin, Oct 2018
- Astronomy Student's Association, University of Texas at Austin, Oct 2017

POSTERS

- 233rd American Astronomical Society Meeting, Seattle, WA, 2019
- UC Berkeley Astronomy Department intern poster session, Univ of California Berkeley, 2018
- College of Natural Sciences Undergraduate Research Forum, University of Texas Austin, 2018
- Star and Planet Formation in the Southwest Conference, Oracle AZ, 2018
- 231st American Astronomical Society Meeting, National Harbor, MD, 2018
- Bash Fest, University of Texas at Austin, 2017
- 230st American Astronomical Society Meeting, Austin, TX, 2017
- College of Natural Sciences Undergraduate Research Forum, University of Texas Austin, 2017

OBSERVING TIME AWARDED

As PI

- Gemini/NIFS: 2 hours

AWARDS AND FELLOWSHIPS

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| 2019 | Graduate Research Fellowship | National Science Foundation |
| 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 |
| 2018 | Jean Perkins Foundation Scholarship | Jean Perkins Foundation Grant for Undergraduate Combat Veterans |
| 2017 | Karl G. Henize Endowed Scholarship | Univ. of Texas at Austin Astronomy Department Award |
| 2017 | Chambliss Prize Honorable Mention | 230th American Astronomical Society Meeting |
| 2017 | J. W. Cox Endowed Scholarship | J. W. Cox Endowment for the Advanced Studies in Astronomy |
| 2017 | Award for Excellence in Astronomy and Astrophysics Research | College of Natural Science Undergraduate Research Forum, University of Texas at Austin |
| 2017 | Jean Perkins Foundation Scholarship | Jean Perkins Foundation Grant for Undergraduate Combat Veterans |
| 2016 | Best Presentation | Fall Undergraduate Research Symposium, Univ. Texas |
| 2016 | Honorable Mention | Gulf Coast UG Research Symposium, Rice Univ. |
| 2016 | Jean Perkins Foundation Scholarship | Jean Perkins Foundation Grant for Undergraduate Combat Veterans |
| 2015 | W. Dawson Sterling Endowed Fellowship | Univ of Texas Board of Regents Award |
| 2009 | Teacher of Promise | Kealing MS, Austin TX |
| 2008 | US Navy Commendation Medal | USS John C. Stennis (CVN-74) |

SERVICE

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|-----------|--------------------------|---|
| 2019- | Co-host/ organizer | SpaceDrafts (Astro. 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 |
| 2017-2019 | Junior Member | American Astronomical Society |
| 2012-2017 | Deacon | City Life Church, Austin TX |

REFERENCES

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|---------------------|--|
| Prof. Adam Kraus | University of Texas at Austin (alk@astro.as.utexas.edu) |
| Howard Isaacson | University of California Berkeley (hisaacson@berkeley.edu) |
| Prof. Shardha Jogee | University of Texas at Austin (sj@astro.as.utexas.edu) |
| Dr. Jennifer Hanley | Lowell Observatory (jhanley@lowell.edu) |