Quang H. Tran

$Curriculum\ Vitae$

| CONTACT INFORMATION | Department of Astr Yale University Kline Biology Towe | r, 219 Prospect St, New Haven, CT 06511 | quang.tran@yale.edu +1 (404) 641-2624 quanghtran.io |
|---------------------------------------|--|--|---|
| EDUCATION | | | July 2024 for Young Planets in |
| | | ersity of Texas at Austin red Radial Velocity Jitter of Young Sun-like S lan P. Bowler | March 2021 Stars |
| | A.B., The University Heyman-Moritz Od Thesis: <i>The Distan</i> Advisor: Dr. Wend | yssey Scholar ce to Sculptor via RR Lyrae Period-Luminos | June 2018 sity Relations |
| APPOINTMENTS | The University o NASA FINESS Graduate Stude | | 2018—2024 2020—2023 2018—2024 |
| | The Flatiron Inst Pre-Doctoral Fe | | 2021—2022 |
| | The University o Undergraduate | f Chicago Research Assistant | 2015—2018 |
| RESEARCH INTERESTS | Characterizing th Searching for hot | the evolution of giant planetary systems archited in influence of stellar properties on planetary and warm Jupiters around young, active stated activity signals in astronomical time series. | occurrence rates. |
| SELECT AWARDS AND HONORS | SACNAS Outstanding Student Oral Presentation Award Flatiron Institute CCA Pre-Doctoral Fellowship 2021 Fred T. Goetting, Jr. Memorial Endowed Presidential Scholarship, UT Austin Outstanding service to the Department of Astronomy, awarded once per year Outstanding Master's Thesis, UT Austin Outstanding Master's thesis in Mathematics, Engineering, Physical Sciences, or Biological and Life Sciences, awarded once per year to one student ExoExplorers Inaugural Cohort, ExoPAG and NASA McDonald Observatory B.O.V. Master's Defense Award, UT Austin Outstanding PhD candidacy exam and defense, awarded once per year | | |
| AWARDED GRANTS | PI, 51 Pegasi b Fellowship (\$430k) The Orbital and Thermal Evolution of Young Giant Planets 2024 FI, FINESST (\$135k) Determining the Evolution and Migration of Young Giant Planets 2020 | | |
| SELECT SCIENTIFIC PRESENTATIONS | Contributed Talk Contributed Talk Contributed Talk Contributed Talk Invited Talk Invited Talk | 243rd Winter AAS Meeting ELT Science in Light of JWST Princeton University Exoplanet Seminar Columbia University Astronomy Seminar UC Santa Cruz PLUNCH Seminar Pennsylvania State University CEHW Sen | Jan. 2024 Dec. 2023 Nov. 2023 Nov. 2023 Oct. 2023 minar March 2023 |

| Contributed Talk | 2022 SACNAS NDiSTEM Conference | Oct. 2022 |
|------------------|--|--------------|
| Invited Talk | McDonald Observatory Board of Visitors Meeting | July 2022 |
| Invited Talk | University of Montreal Student Seminar Series | $June\ 2022$ |
| Invited Talk | HET Board of Visitors Meeting (virtual) | Dec. 2021 |
| Invited Talk | Yale University Exoplanets and Stars Seminar | Dec. 2021 |
| Invited Talk | ExoExplorer's Science Seminar Series, NASA | March 2021 |

SELECT PI OBSERVING PROGRAMS

- PI, Habitable Zone Planet Finder (HPF), Hobby-Eberly Telescope: The Epoch of Giant Planet Migration, 452.3 hours (2019-T1-2024-T1)
- PI, NN-EXPLORE Exoplanet Investigations with Doppler Spectroscopy (NEID), WIYN Observatory: Confirmation of Two Hot Jupiters in the AB Dor Young Moving Group, 2.07 nights (2023A); 1.72 nights (2023B)
- PI, M dwarf Advanced Radial velocity Observer Of Neighboring eXoplanets (MAROON-X), Gemini-North Telescope: Confirmation of Two Hot Jupiters in the AB Dor Young Moving Group, 12.8 hours (2023B)
- PI, 3.5m NASA Exoplanet Star (and) Speckle Imager (NESSI), WIYN Observatory: Establishing the Evolution and Migration of Giant Planets, 1.5 nights (2022B)
- PI, 2.7m Robert G. Tull Coudé Spectrograph, McDonald Observatory: *Evolution and Migration of Hot Jupiters*, 15 nights (2019-T1–2020-T3)

SELECT SERVICE AND OUTREACH

Referee for AAS Journals (AJ)

2022 - Present

UT Austin Astronomy Graduate Student Mentor and Co-Lead 2019 - Present TAURUS Scholars Graduate Student Mentor and Co-Lead 2019 - 2023 UT Austin Astronomy on Tap, Member and Co-Host 2019 - 2020 UT Austin College of Natural Sciences First Generation Mentor 2019 - 2020

REFEREED PUBLICATIONS

NASA ADS, DORCID iD, Google Scholar.

First-author publications: 6 Total publications: 15

First-Author Publications

6. Gaussian Process Models Impact the Inferred Properties of Giant Planets around Active Stars

Tran, Q. H. & Bowler, B. P., 2024, AJ, 168, 183.

- 5. The Epoch of Giant Planet Migration Planet Search Program. II. A Young Hot Jupiter Candidate around the AB Dor Member HS Psc
 - Tran, Q. H., Bowler, B. P., Cochran, W. D., et al. [9 Total], 2024, AJ, 167, 193.
- 4. Joint Modeling of Radial Velocities and Photometry with a Gaussian Process Framework
 - Tran, Q. H., Bedell, M., Foreman-Mackey, D., Luger, R., 2023, AJ, 950, 162.
- 3. Distances to Local Group Galaxies via Population II, Stellar Distance Indicators I: The Sculptor Dwarf Spheroidal
 - Tran, Q. H., Hoyt, T. J., Freedman, W. L., et al. [8 Total], 2022, AJ, 935, 1.
- 2. TOI-1670 b and c: An Inner Sub-Neptune with an Outer Warm Jupiter Unlikely to Have Originated from High-eccentricity Migration
 - Tran, Q. H., Bowler, B. P., Endl, M., et al. [41 Total], 2022, AJ, 163, 225.
- 1. The Epoch of Giant Planet Migration Planet Search Program. I. Near-Infrared Radial Velocity Jitter of Young Sun-like Stars
 - Tran, Q. H., Bowler, B. P., Cochran, W. D., et al. [11 Total], 2021, AJ, 161, 173.

Second-Author & Third-Author Publications

- 2. Signs of Similar Stellar Obliquity Distributions for Hot and Warm Jupiters Orbiting Cool Stars
 - Morgan, M., Bowler, B. P., **Tran, Q. H.**, et al. [6 Total], AJ, 167, 2
- Rotation Periods, Inclinations, and Obliquities of Cool Stars Hosting Directly Imaged Substellar Companions: Spin Orbit Misalignments Are Common Bowler, B. P., Tran, Q. H., Zhang, Z., et al. [13 Total], 2023, ApJ, 165, 4.

Co-Author Publications

- JWST/NIRCam 4–5 μm Imaging of the Giant Planet AF Lep b
 Franson, K., Balmer, W. O., Bowler, B. P., et al. [26 Total including Tran, Q. H.], 2024, ApJL, 974, 11.
- 6. A Large and Variable Leading Tail of Helium in a Hot Saturn Undergoing Runaway Inflation
 - Gully-Santiago, M., Morley, C. V., Luna, J., et al. [17 Total including Tran, Q. H.], AAS Journals, accepted.
- Giant Tidal Tails of Helium Escaping the Hot Jupiter HAT-P-32 b
 Zhang, Z., Morley, C. V., Gully-Santiago, M., et al. [17 Total including Tran, Q. H.], Science Advances, 9, 23.
- 4. Astrometric Accelerations as Dynamical Beacons: A Giant Planet Imaged Inside the Debris Disk of the Young Star AF Lep
 - Franson, K., Bowler, B. P., Zhou, Y., et al. [16 Total including Tran, Q. H.], ApJL, 950, 2.
- 3. Astrometric Accelerations as Dynamical Beacons: Discovery and Characterization of HIP 21152 B, the First T-dwarf Companion in the Hyades Franson, K., Bowler, B. P., Bonavita, M., et al. [31 Total including Tran, Q. H.], 165, 2.
- Distances to Local Group Galaxies via Population II, Stellar Distance Indicators.
 The Fornax Dwarf Spheroidal
 Oakes, E. K., Hoyt, T. J., Freedman, W. L., et al. [8 Total including Tran, Q. H.], 2022, ApJ, 929, 116.
- Dynamical Mass of the Young Substellar Companion HD 984 B
 Franson, K., Bowler, B. P., Brandt, T. D., Dupuy, T. J., et al. [8 Total including Tran, Q. H.], 2022, AJ, 163, 50.