Quang H. Tran

$Curriculum\ Vitae$

CONTACT INFORMATION	Department of Astr The University of T 2515 Speedway, Sto	v	quangtran@utexas.edu +1 (404) 641-2624 quanghtran.io	
EDUCATION	Dissertation: The I the Stellar Noise	ersity of Texas at Austin Epoch of Giant Planet Migration: Sear e endan P. Bowler	Expected July 2024 rching for Young Planets in	
	M.A., The University of Texas at Austin Thesis: Near-Infrared Radial Velocity Jitter of Young Sun-like Stars Advisor: Dr. Brendan P. Bowler			
	A.B., The University Heyman-Moritz Od Thesis: <i>The Distan</i> Advisor: Dr. Wend	yssey Scholar ce to Sculptor via RR Lyrae Period-L	eptember 2014 – June 2018 uminosity Relations	
APPOINTMENTS	The University of Texas at Austin NASA FINESST Fellow Graduate Student Researcher		2018 – Present 2020 – 2023 2018 – Present	
	The Flatiron Institute, CCA Pre-Doctoral Fellow		2021 - 2022	
	The University of Chicago Undergraduate Research Assistant		2015 - 2018	
RESEARCH INTERESTS	 Understanding the evolution of giant planetary systems architecture and geometry. Characterizing the influence of stellar properties on planetary occurrence rates. Searching for hot and warm Jupiters around young, active stars. Modeling stellar activity signals in astronomical time series. 			
SELECT AWARDS AND HONORS	SACNAS Outstanding Student Oral Presentation Award Flatiron Institute CCA Pre-Doctoral Fellowship 2022 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	FI, FINESST (\$135k)		·	
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 Sen Columbia University Astronomy Se UC Santa Cruz PLUNCH Seminar Pennsylvania State University CEH	minar Nov. 2023 Oct. 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 $2019 - Present \\ TAURUS \text{ Scholars Graduate Student Mentor and Co-Lead } \\ UT Austin Astronomy on Tap, Member and Co-Host \\ UT Austin College of Natural Sciences First Generation Mentor \\ 2019 - 2020 \\ 2019 -$

REFEREED PUBLICATIONS

NASA ADS, DORCID iD, & Google Scholar.

First-author publications: 7 Total publications: 15

First-Author Publications

- 7. The Epoch of Giant Planet Migration Planet Search Program. III. The Occurrence Rate of Giant Planets Inside the Water Ice Line at Young Ages
 - Tran, Q. H. & Bowler, B. P., Cochran, W. D., et al. [9 Total], in prep.
- 6. Gaussian Process Models Impact the Inferred Properties of Giant Planets around Active Stars
 - Tran, Q. H. & Bowler, B. P. submitted.
- 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

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.
 II. 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.