

Quang H. Tran

Curriculum Vitae

CONTACT INFORMATION	Department of Astronomy The University of Texas at Austin 2515 Speedway, Stop C1400, Austin, Texas 78712	quangtran@utexas.edu +1 (404) 641 2624 ORCID: 0000-0001-6532-6755
EDUCATION	Ph.D., The University of Texas at Austin Advisor: Brendan P. Bowler	<i>Expected Spring 2024</i>
	A.B., The University of Chicago Heyman-Moritz Odyssey Scholar Thesis: <i>The Distance to Sculptor via RR Lyrae Period-Luminosity Relations</i> Advisor: W. L. Freedman	<i>September 2014 – June 2018</i>
APPOINTMENTS	The University of Texas at Austin Flatiron Institute CCA Pre-Doctoral Fellow NASA FINESST Fellow Graduate Student Researcher	<i>2018 – Present</i> <i>2021 – 2022</i> <i>2020 – Present</i> <i>2018 – 2020</i>
	The University of Chicago Undergraduate Research Assistant	<i>2015 – 2018</i>
RESEARCH INTERESTS	<ul style="list-style-type: none">• 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.• Constraining stellar activity of young, active stars at near-infrared wavelengths.	
AWARDS AND HONORS	SACNAS Outstanding Student Oral Presentation Award Flatiron Institute Center for Computational Astrophysics Pre-Doctoral Fellow Fred T. Goetting, Jr. Memorial Endowed Presidential Scholarship, UT Austin <i>Outstanding service to the Department of Astronomy, awarded once per year</i> Outstanding Master's Thesis, UT Austin <i>Outstanding Master's thesis in Mathematics, Engineering, Physical Sciences, or Biological and Life Sciences, awarded once per year to one student</i> ExoExplorers Inaugural Cohort, ExoPAG and NASA McDonald Observatory B.O.V. Master's Defense Award, UT Austin <i>Outstanding PhD candidacy exam and defense, awarded once per year</i> Department of Astronomy OGS Summer Award, UT Austin	<i>2022</i> <i>2021</i> <i>2021</i> <i>2021</i> <i>2021</i> <i>2020</i> <i>2020</i>
AWARDED GRANTS	FI, Future Investigators in NASA Earth and Space Science and Technology (\$135k) <i>Determining the Evolution and Migration of Young Giant Planets</i>	<i>2020</i>
SCIENTIFIC PRESENTATIONS	Invited Talk Contributed Talk Invited Talk Invited Talk Invited Talk Invited Talk Contributed Talk Contributed Talk	Pennsylvania State University CEHW Seminar 2022 SACNAS NDiSTEM Conference McDonald Observatory Board of Visitors Meeting University of Montreal Student Seminar Series Yale University Exoplanets and Stars Seminar ExoExplorer's Science Series, NASA Stars, Planets, and the ISM Seminar, UT Austin ERES IV, Pennsylvania State University
		<i>March 2023</i> <i>Oct. 2022</i> <i>July 2022</i> <i>June 2022</i> <i>Dec. 2021</i> <i>March 2021</i> <i>May 2020</i> <i>June 2018</i>

REFEREED
PUBLICATIONS

First-Author Publications

4. *Joint Modeling of Radial Velocities and Photometry with a Gaussian Process Framework*
Tran, Q. H.; Bedell, Megan; Foreman-Mackey, Daniel; Luger, Rodrigo; 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.; Madore, B. F.; Oakes, E. K.; Cerny, W.; Hatt, D.; Beaton, R. L.; 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.; Endl, M.; Stefánsson, G.; Mahadevan, S.; Ninan, J. P.; Bender, C. F.; Halverson, S.; Roy, A.; Terrien, R. C.; 2021, AJ, 161, 173.

Co-Author Publications

6. *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]; Science Advances, accepted.
5. *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]; ApJL, accepted.
4. *Rotation Periods, Inclinations, and Obliquities of Cool Stars Hosting Directly Imaged Substellar Companions: SpinOrbit Misalignments Are Common*
Bowler, B. P.; **Tran, Q. H.**; Zhang, Z.; et al. [13 Total]; 2023, ApJ, 165, 4.
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]; 165, 2.
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.; Madore, B. F.; **Tran, Q. H.**; Cerny, W.; Beaton, R. L.; Seibert, Mark; 2022, ApJ, 929, 116.
1. *Dynamical Mass of the Young Substellar Companion HD 984 B*
Franson, K.; Bowler, B. P.; Brandt, T. D.; Dupuy, T. J.; **Tran, Q. H.**; Brandt, G. M.; Li, Y.; Kraus, A. L.; 2021, 2022, AJ, 163, 50.

PI OBSERVING
PROGRAMS

PI, Habitable Zone Planet Finder (HPF), Hobby-Eberly Telescope: *The Epoch of Giant Planet Migration*, 422.5 hours (2019-T1–2023-T2)

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)

SERVICE AND
OUTREACH

TAURUS Scholars Graduate Student Mentor and Co-Lead	2019 – 2023
UT Austin Astronomy Graduate Student Mentor and Co-Lead	2018 – 2023
UT Austin Astronomy on Tap, Member and Co-Host	2019 – 2020
UT College of Natural Sciences First Generation FIG Mentor	2019 – 2020