

EDUCATION	<b>Ph.D. in Physics, University of California, Irvine</b>	2021 – 2026 (expected)
	<i>Advisor: Paul Robertson</i>	GPA:3.97/4.0
	<b>B.S. in Physics, University of California, Santa Barbara</b>	2017 – 2020
	<i>Advisor: Timothy Brandt</i>	GPA:3.99/4.0
AWARDS & HONORS	<b>Chancellor's Fellowship</b>   2021–2023	UCI
	<b>Highest Honors (Honors at Graduation)</b>   2017–2020	UCSB
	<b>Dean's Honors (Letters &amp; Science)</b>   2018–2020	UCSB
FIRST-AUTHOR PUBLICATIONS	<b>TESS-Gaia Light Curve: A PSF-based TESS FFI Light-curve Product</b>	
	<i>Han, T. &amp; Brandt, T. D. 2023, AJ, 165, 71</i>	
	<b>TOI-5344 b: A Saturn-like Planet Orbiting a Super-solar Metallicity M0 Dwarf</b>	
	<i>Han, T., Robertson, P., Kanodia, S., et al. 2024, AJ, 167, 4</i>	
	<b>NEIDSpecMatch: Stellar Parameter Estimation with NEID Spectra Using an Empirical Library</b>	
	<i>Han, T., Robertson, P., Cañas, C. I., et al. 2025, RNAAS, 9, 63</i>	
	<b>Hundreds of TESS Exoplanets Might Be Larger than We Thought</b>	
SELECTED CO-AUTHOR PUBLICATIONS	<i>Han, T., Robertson, P., Brandt, T. D., et al. 2025, ApJL, 988, L4</i>	
	<b>SURFSUP: Surveying Ultrafast Rotators For Superyoung Planets</b>	
	<i>Han, T., Robertson, P., Holcomb, R., et al. 2025, In prep.</i>	
	<b>TESS-Gaia Light Curve: photometric precision analysis and new functionalities</b>	
ALL PUBLICATIONS	<i>Han, T., Robertson, P., Haviland, J., et al. 2025, In prep.</i>	
	<b>Searching for GEMS: The Occurrence of Giant Planets orbiting M-dwarfs within 100 pc</b>	
	<i>Glusman, R. I., Cañas, C. I., Kanodia, S., Han, T., ..., et al. 2025, arXiv:2509.08773</i>	
RESEARCH & ACADEMIC POSITIONS	<b>Searching for GEMS: TOI-5916 b &amp; TOI-6158 b are two Saturn-density planets orbiting M2 dwarfs</b>	
	<i>O'Brien, S., Wong, A., Han, T., et al. 2025, arXiv:2510.11798</i>	
	<b>Personal ADS database:</b> — Last updated: Oct. 2025	
	<a href="https://ui.adsabs.harvard.edu/user/libraries/i0dN71eMRXya8elFayuVLw">https://ui.adsabs.harvard.edu/user/libraries/i0dN71eMRXya8elFayuVLw</a>	
	<b>Citation statistics</b> — h-index:8; total citation: 166	
	<a href="https://scholar.google.com/citations?user=icmoWO4AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=icmoWO4AAAAJ&amp;hl=en</a>	
	<b>Visiting Graduate Student</b>   Massachusetts Institute of Technology	2025
	<b>Graduate Student Researcher</b>   UC Irvine	2023 – Present
	<b>Teaching Assistant</b>   UC Irvine	2021 – 2022
	<b>Lab Assistant</b>   UC Santa Barbara	2020 – 2021
	<b>Physics Study Room Fellow</b>   UC Santa Barbara	2018 – 2020
	<b>Learning Assistant</b>   UC Santa Barbara	2018 – 2019

TALKS & POSTERS	Invited Talks:	
	Caltech/IPAC Lunch Seminar, Caltech — The radius bias of TESS exoplanets	2025.04
	TESS Science Talk, MIT (Remote) — TGLC Technical Details	2024.04
	ExoSoCal 2023, Caltech — TOI-5344 b as a GEMS planet	2023.12
	TESS Science Talk, MIT — TGLC Methods	2023.08
	Contributed Talks:	
	TESS Science Conference III, MIT — TGLC Performance	2024.07
	TESS Mission Update, MIT — TESS-Gaia Light Curve	2023.06
	Posters:	
	Know Thy Star, Know Thy Planet 2, Caltech — SURFSUP	2025.02
MENTORSHIP & TEACHING	CoolStars22, UCSD — SURFSUP	2024.06
	Undergraduate Research Mentor	2024–2025
	<i>Supervised Shane O’Brien &amp; Amber Wong on a peer-reviewed paper</i>	UCI
	Teaching Assistant	2022
	<i>COSMOS Cluster: California State Summer School for Mathematics and Science</i>	UCI
	Teaching Assistant	2021–2022
	<i>Courses: Physics 7E, Physics 7D, Physics 3LB, Physics 3A</i>	UCI
	Learning Assistant	2018
	<i>Course: INT 89AH</i>	UCSB
	Physics Study Room Fellow	2018–2020
COMMUNITY SERVICE & OUTREACH	<i>Provided peer tutoring and problem-solving guidance</i>	UCSB
	Scientific Organizing Committee — ExoSoCal 2025 (UCLA)	2025
	Referee — AAS Journals (AJ)	2025–
	Photographer — UCI Physics & Astronomy Department’s annual Awards Ceremony	2025
	Visitor — UCI Mt. Wilson Field Trip	2022
	Organizer — TEDxHarbinNo3HighSchool	2016
AWARDED TELESCOPE TIME	NSF’s NOIRLab (WIYN Telescope)	PI – 12 hours   2025–2026
	2025B-665716	
	UC Observatories (Keck Telescope)	Co-PI – 0.75 nights   2025–2026
	2025B_U202	
	McDonald Observatory (HET Telescope)	Co-PI – 10 hours   2025
	SURFSUP	
	UC Observatories (Shane Telescope)	Co-PI – 6 nights   2024–2025
	2024B_S011	
TELESCOPE OBSERVING	NSF’s NOIRLab (WIYN Telescope)	Co-PI – 13.1 hours   2024
	2024A-413680	
	McDonald Observatory (HET Telescope)	Co-PI – multiple semesters   2022–2024
	SURFSUP	
	Co-PI / Observer — Shane 3-m Telescope at Lick Observatory	15 nights, 2023–2024
	Trainee — Sophia H. Levy McDonald Graduate Observational Astronomy Workshop	2022
	Trainee — Five-hundred-meter Aperture Spherical Telescope (FAST) School	2021

## MEDIA COVERAGE

**Sky & Telescope** — Coverage of ApJL: "Some planets are bigger than we thought" 2025  
**Space.com** — Coverage of ApJL: "Bad news for alien life? Earth-size planets may be less common than we thought" 2025  
**Sci.News** — Coverage of ApJL: "Hundreds of Exoplanets Discovered by NASA's TESS Satellite Might Be Larger than We Thought" 2025  
**Earth.com** — Coverage of ApJL: "Hundreds of exoplanets are much larger than we thought" 2025  
**Orange County Register** — Coverage of ApJL: "UC Irvine researchers add some clarity to search for extraterrestrial life" 2025  
**UCI News** — Coverage of ApJL: "UC Irvine astronomers discover scores of exoplanets may be larger than realized" 2025

## SKILLS

**Programming:** *Python*  
**Research & Data:** *Ground-based telescope planning and observing (Shane 3-m Telescope at Lick Observatory), Exoplanet modeling, Radial Velocity analysis, Light Curve analysis, Spectra analysis, 3D modeling*  
**Technical Tools:** *Deep Space Astrophotography, DSLR/Drone photography, 3D printing*  
**Communication:** *Public speaking, Teaching, Science writing*  
**Languages:** *Chinese (Native), English (Fluent)*

## PUBLICATION LIST

[1] Searching for GEMS: TOI-5916 b & TOI-6158 b are two Saturn-density planets orbiting M2 dwarfs  
O'Brien, S., Wong, A., Han, T., et al. 2025, *arXiv:2510.11798*  
[2] Searching for GEMS: TOI-7149 b, an Inflated Giant Planet Causing a 12% Transit of a Fully Convective M-dwarf  
Kanodia, S., Cañas, C. I., Mahadevan, S., ..., Han, T., et al. 2025, *AJ*, 170, 203  
[3] Searching for GEMS: The Occurrence of Giant Planets orbiting M-dwarfs within 100 pc  
Glusman, R. I., Cañas, C. I., Kanodia, S., Han, T., ..., et al. 2025, *arXiv:2509.08773*  
[4] The NEID Earth Twin Survey IV. Confirming an 89 d,  $m \sin i = 10 M_{\oplus}$  Planet Orbiting a Nearby Sun-like Star  
Giovinazzi, M. R., Fitzmaurice, E., Gupta, A. F., ..., Han, T., et al. 2025, *arXiv:2508.18169*  
[5] A Catalog of M&M Eclipsing Binaries with TESS  
Oddo, D., Dragomir, D., Powell, B. P., ..., Han, T., 2025, *arXiv:2508.13941*  
[6] Hundreds of TESS Exoplanets Might Be Larger than We Thought  
Han, T., Robertson, P., Brandt, T. D., et al. 2025, *ApJL*, 988, L4  
[7] Searching for GEMS: Two Super-Jupiters Around M Dwarfs that May have Formed via Gravitational Instability  
Hotnisky, A., Kanodia, S., Libby-Roberts, J., ..., Han, T., et al. 2025, *AJ*, 170, 1  
[8] Searching for GEMS: Confirmation of TOI-5573 b, a Cool, Saturn-like Planet Orbiting an M Dwarf  
Fernandes, R. B., Kanodia, S., Delamer, M., ..., Han, T., et al. 2025, *AJ*, 170, 55  
[9] An Earth-Sized Planet in a 5.4 h Orbit Around a Nearby K dwarf  
Tas, K. H., Stefansson, G., Fariz, S. N. M., ..., Han, T., et al. 2025, *arXiv:2507.08464*  
[10] TOI-6324 b: An Earth-mass Ultra-short-period Planet Transiting a Nearby M Dwarf  
Lee, R. A., Dai, F., Howard, A. W., ..., Han, T., et al. 2025, *ApJL*, 983, L36  
[11] NEIDSpecMatch: Stellar Parameter Estimation with NEID Spectra Using an Empirical Library  
Han, T., Robertson, P., Cañas, C. I., et al. 2025, *RNAAS*, 9, 63

- [12] **GEMS JWST: Transmission spectroscopy of TOI-5205 b reveals significant stellar contamination and a metal-poor atmosphere**  
*Cañas, C. I., Lustig-Yaeger, J., Tsai, S.-M., ..., Han, T., et al. 2025, In prep.*
- [13] **Searching for GEMS: TOI-5688 A b, a Low-density Giant Orbiting a High-metallicity Early M-dwarf**  
*Reji, V., Kanodia, S., Ninan, J. P., ..., Han, T., et al. 2025, AJ, 169, 187*
- [14] **Jitter Across 15 yr: Leveraging Precise Photometry from Kepler and TESS to Extract Exoplanets from Radial Velocity Time Series**  
*Beard, C., Robertson, P., Lubin, J., ..., Han, T., et al. 2025, AJ, 169, 92*
- [15] **A Fourth Planet in the Kepler-51 System Revealed by Transit Timing Variations**  
*Masuda, K., Libby-Roberts, J. E., Livingston, J. H., ..., Han, T., et al. 2024, AJ, 168, 294*
- [16] **Searching for GEMS: Characterizing Six Giant Planets Around Cool Dwarfs**  
*Kanodia, S., Gupta, A. F., Cañas, C. I., ..., Han, T., et al. 2024, AJ, 168, 235*
- [17] **Utilizing Photometry from Multiple Sources to Mitigate Stellar Variability in Precise Radial Velocities: A Case Study of Kepler-21**  
*Beard, C., Robertson, P., Giovinnazzi, M. R., ..., Han, T., et al. 2024, AJ, 168, 149*
- [18] **An Earth-sized Planet on the Verge of Tidal Disruption**  
*Dai, F., Howard, A. W., Halverson, S., ..., Han, T., et al. 2024, AJ, 168, 101*
- [19] **TESS-Gaia Light Curve: High-precision, Dilution-free TESS FFI PSF Light Curve**  
*Han, T., Robertson, P., Brandt, T. 2024, TESS Science Conference III (proceedings), ID 8*
- [20] **Searching for Giant Exoplanets around M-dwarf Stars (GEMS) I: Survey Motivation**  
*Kanodia, S., Cañas, C. I., Mahadevan, S., ..., Han, T., et al. 2024, AJ, 167, 161*
- [21] **TOI-4201: An Early M Dwarf Hosting a Massive Transiting Jupiter Stretching Theories of Core Accretion**  
*Delamer, M., Kanodia, S., Cañas, C. I., ..., Han, T., et al. 2024, ApJL, 962, L22*
- [22] **TOI-5344 b: A Saturn-like Planet Orbiting a Super-solar Metallicity M0 Dwarf**  
*Han, T., Robertson, P., Kanodia, S., et al. 2024, AJ, 167, 4*
- [23] **The Unusual M-dwarf Warm Jupiter TOI-1899 b: Refinement of Orbital and Planetary Parameters**  
*Lin, A. S. J., Libby-Roberts, J. E., Alvarado-Montes, J. A., ..., Han, T., et al. 2023, AJ, 166, 90*
- [24] **TESS-Gaia Light Curve: A PSF-based TESS FFI Light-curve Product**  
*Han, T. & Brandt, T. D. 2023, AJ, 165, 71*
- [25] **Revisiting the Exo-Mercury Candidate GJ 367 b with ESPRESSO and a Self-Consistent Tidal Distortion Model**  
*Lee, R. A., Dai, F., Price, E. M., Han, T., et al. 2025, In prep.*