Dr. Fei Dai

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Education

Massachusetts Institute of Technology
Ph.D. in Physics; Advisor: Prof. Joshua N. Winn
University of Cambridge, UK
B.A. of Natural Sciences; M.Sci of Physics, First Class Honors

Professional Appointment & Research Experience

Assistant Astronomer/Professor	[2024-Present]
Institute for Astronomy, University of Hawai'i at Manoa	
NASA Sagan Postdoctoral Fellow	[2022-2024]
Division of Physics, Math, and Astronomy, Caltech	
GPS Chair's Postdoctoral Fellow	[2019-2022]
Division of Geological and Planetary Sciences, Caltech	
Visiting graduate student	[2017-2019]
Department of Astrophysical Sciences, Princeton University	

Publications

Total Refereed: 182; 1st-author: 16; Citations: 6155; h-index: 50; i10-index: 133

First-Author Publications

- [1] F Dai, K Masuda, JN Winn, L Zeng 2019, The Astrophysical Journal, 883, 1, ADS Homogeneous Analysis of Hot Earths: Masses, Sizes, and Compositions
- [2] F Dai, JN Winn, 2017, The Astronomical Journal 153, 205, ADS The Oblique Orbit of WASP-107b from K2 Photometry
- [3] F Dai, JN Winn, D Gandolfi, et al., 2017, The Astronomical Journal 154, 226, ADS

 The Discovery and Mass Measurement of a New Ultra-short-period Planet: K2-131b
- [4] F Dai, K Masuda, JN Winn, 2018, The Astrophysical Journal Letter, 864, 2, L38, ADS Larger Mutual Inclinations for the Shortest-period Planets
- [5] F Dai, A Masuda, C Beard, et al., 2023, The Astronomical Journal, 165, 33, ADS TOI-1136 is a Young, Coplanar, Aligned Planetary System in a Pristine Resonant Chain
- [6] F Dai, S Facchini, CJ Clarke, TJ Haworth, 2015, MNRAS 449, 2, ADS A Tidal Encounter Caught in the Act: Modelling a Star-disc Fly-by in the Young RW Aurigae System
- [7] F Dai, JN Winn, S Albrecht, P Arriagada, et al., 2016, The Astrophysical Journal 825, 53, ADS Doppler Monitoring of five K2 Transiting Planetary Systems
- [8] F Dai, A Howard, N Batalha, et al., 2021, The Astronomical Journal, 162, 62, ADS

 The TESS-Keck Survey. X: TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes
- [9] F Dai, JN Winn, P Arriagada, RP Butler, et al., 2015, The Astrophysical Journal Letters 813, L9, ADS Doppler Monitoring of the WASP-47 Multiplanet System
- [10] F Dai, JN Winn, P Arriagada, RP Butler, et al., 2015, The Astrophysical Journal Letters 813, L9, ADS Doppler Monitoring of the WASP-47 Multiplanet System
- [11] F Dai, R Roy, BJ Fulton, et al. 2020, The Astronomical Journal, 160, 193, ADS The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c
- [12] F Dai, JN Winn, K Schlaufman, et al., 2020, The Astronomical Journal, 159, 247, ADS

 California-Kepler Survey. IX. Revisiting the Minimum-mass Extrasolar Nebula with Precise Stellar Parameters
- [13] F. Dai, M. Goldberg, K. Batygin, et al., 2024, The Astronomical Journal, 166, 239, ADS The Prevalence of Resonance Among Young, Close-in Planets
- [14] F Dai, JN Winn, Z Berta-Thompson, R Sanchis-Ojeda, 2018, The Astronomical Journal 155, 177, ADS

 Stellar Obliquity and Magnetic Activity of Planet-hosting Stars and Eclipsing Binaries Based on Transit Chord Correlation
- [15] F. Dai, A. Howard, S. Halverson, et al., 2024, The Astronomical Journal, 168, 101, ADS

- An Earth-sized Planet on the Verge of Tidal Disruption
- [16] F. Dai, K. C. Schlaufman, H. Reggiani, et al., 2023, The Astronomical Journal, 166, 49, ADS A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+ 29 2654

Major-Contribution Publications

- [17] Y. Xu & F. Dai, 2025, The Astrophysical Journal 981, 142 ADS

 Amplifying Resonant Repulsion with Inflated Young Planets, Overlooked Inner Planets, and Nonzero Initial Δ
- [18] R. Lee, F. Dai, et al., 2025, The Astrophysical Journal Letters 983 L36, ADS TOI-6324 b: An Earth-mass Ultra-short-period Planet Transiting a Nearby M Dwarf
- [19] F. Keller, F. Dai & W. Xu, 2025, The Astrophysical Journal, in press, ADS Higher-Order Mean-Motion Resonances Can Form in Type-I Disk Migration
- [20] E. Zhang, H. Teng, F. Dai, et al. 2025, The Astrophysical Journal, in press, ADS TOI-880 is an Aligned, Coplanar, Multi-planet System
- [21] H. Teng, F. Dai, 2025, The Astrophysical Journal, 170, 51 ADS Stellar Obliquity of the Ultra-short-period Planet System HD 93963
- [22] Z. Hu, W. Zhu, F. Dai, 2024, The Astrophysical Journal Letters 977, L28 ADS An Eccentric Binary with a Misaligned Circumbinary Disk
- [23] H. Teng, F Dai, et al., 2024, The Astronomical Journal 168, 194, ADS The $\sim \! 50$ Myr Old TOI-942c is Likely on an Aligned, Coplanar Orbit and Losing Mass
- [24] S. Giacalone, F Dai, et al., 2024, The Astronomical Journal 168, 188, ADS The OATMEAL Survey. I. Low Stellar Obliquity in the Transiting Brown Dwarf System GPX-1
- [25] R. Rubenzahl, F Dai, et al., 2024, The Astronomical Journal 168, 189, ADS KPF Confirms a Polar Orbit for KELT-18 b
- [26] R. Rubenzahl, F Dai, et al., 2024, The Astrophysical Journal Letters 971, L40, ADS Obliquity Constraints for the Extremely Eccentric Sub-Saturn Kepler-1656 b
- [27] H. Yu & F. Dai, 2024, The Astrophysical Journal, in press, ADS

 Are WASP-107-like Systems Consistent with High-eccentricity Migration?
- [28] T. Gan, S. Wang, F Dai, et al., 2024, The Astrophysical Journal Letters, 969, 1, L24, ADS The Aligned Orbit of a Hot Jupiter around the M Dwarf TOI-4201
- [29] R. Rubenzahl, F Dai, et al., 2024, The Astronomical Journal, 167, 4, 16, ADS The TESS-Keck Survey. XII. A Dense 1.8 R Ultra-short-period Planet Possibly Clinging to a High-mean-molecular-weight Atmosphere after the First Gigayear
- [30] C. Beard, P. Robertson, F Dai, et al., 2024, The Astronomical Journal, 167, 2, 70, ADS The TESS-Keck Survey. XVII. Precise Mass Measurements in a Young, High-multiplicity Transiting Planet System Using Radial Velocities and Transit Timing Variations
- [31] A Behmard, F Dai, et al., 2023, Monthly Notices of the Royal Astronomical Society, 521, 2, ADS

 Planet engulfment detections are rare according to observations and stellar modelling
- [32] C. Brinkman, L. Weiss, F Dai, et al., 2023, The Astronomical Journal, 165, 3, 88, ADS TOI-561 b: A Low-density Ultra-short-period "Rocky" Planet around a Metal-poor Star
- [33] A. Goyal, F Dai, S. Wang, 2023, The Astrophysical Journal, 955, 2, 118, ADS Enhanced Size Uniformity for Near-resonant Planets
- [34] T Hirano, F Dai, et al., 2023, The Astronomical Journal, 165, 3, 131, 14,ADS An Earth-sized Planet around an M5 Dwarf Star at 22 pc
- [35] M. Zhang, F Dai, et al., 2023, The Astrophysical Journal Letters, 953, 2, L25, ADS Outflowing helium from a mature mini-Neptune
- [36] A Behmard, F Dai, A Howard, 2022, The Astronomical Journal, 163, 4 ADS

 Stellar Companions to TESS Objects of Interest: A Test of Planet-Companion Alignment
- [37] W. Zhu, K. Bernhard, F Dai, et al., 2022, The Astrophysical Journal Letters 933 (1), L21,ADS

 Two Candidate KH 15D-like Systems from the Zwicky Transient Facility
- [38] L Weiss, F Dai, et al., 2021, The Astronomical Journal, 161, 2, ADS

 The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Thick-disk Star TOI-561
- [39] R Rubenzahl, F Dai, et al., 2021, The Astronomical Journal, 161, 3, ADS

 TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b
- [40] L Wang & F Dai, 2021, The Astrophysical Journal, 914, 2, 98, ADS
 Metastable Helium Absorptions with 3D Hydrodynamics and Self-consistent Photochemistry. II. WASP-107b, Stellar Wind, Radiation Pressure, and Shear Instability
- [41] L Wang & F Dai, 2021, The Astrophysical Journal, 914, 2, 98, ADS
 Metastable Helium Absorptions with 3D Hydrodynamics and Self-consistent Photochemistry. I. WASP-69b, Dimensionality,

- X-Ray and UV Flux Level, Spectral Types, and Flares
- [42] G Li, F Dai & J Becker, 2020, The Astrophysical Journal Letters, 890, 2 ADS Mutual Inclination Excitation by Stellar Oblateness
- [43] J Livingston, F Dai, et al., 2019, MNRAS, 484, 1, ADS K2-264: a Transiting Multiplanet System in the Praesepe Open Cluster
- [44] L Wang & F Dai, 2018, The Astrophysical Journal Letters 873, 1, L1, ADS

 Dusty Outflows in Planetary Atmospheres: Understanding "Super-puffs" and Transmission Spectra of Sub-Neptunes
- [45] JH Livingston, M Endl, F Dai, et al., 2018, The Astronomical Journal 156 , 78 ADS 44 Validated Planets from K2 Campaign 10
- [46] MC Johnson, F Dai, et al., 2018, MNRAS, 481, 1, ADS

 The K2-260 b: a Hot Jupiter Transiting an F Star, and K2-261 b: a Warm Saturn Around a Bright G Star
- [47] L Wang & F Dai, 2018, The Astrophysical Journal 860, 175, ADS
 Evaporation of Low-mass Planet Atmospheres: Multidimensional Hydrodynamics with Consistent Thermochemistry
- [48] W Zhu, F Dai, K Masuda, 2018, Research Notes of the American Astronomical Society, 2, 3, ADS Kepler-730b is Probably a Hot Jupiter with a Small Companion
- [49] V Van Eylen, F Dai, et al., 2018, MNRAS, 478, 4, ADS
 HD 89345: a Bright Oscillating Star Hosting a Transiting Warm Saturn-sized Planet Observed by K2
- [50] O Barragan, D Gandolfi, F Dai, et al., 2018, Astronomy & Astrophysics 612, A95, ADS K2-141 b-A 5-M_⊕ Super-Earth Transiting a K7 V Star Every 6.7 h
- [51] T Hirano, F Dai, et al., 2018, The Astronomical Journal 155, 127, ADS Exoplanets around Low-mass Stars Unveiled by K2
- [52] T Hirano, F Dai, et al., 2018, The Astronomical Journal 155, 124, ADS K2-155: A Bright Metal-poor M Dwarf with Three Transiting Super-Earths
- [53] JH Livingston, F Dai, et al., 2018, The Astronomical Journal 155, 115, ADS

 Three Small Planets Transiting a Hyades Star
- [54] P Niraula, S Redfield, F Dai, et al., 2017, The Astronomical Journal 154, 266, ADS Three Super-Earths Transiting the Nearby Star GJ 9827
- [55] EW Guenther, O Barragan, F Dai, et al., 2017, Astronomy & Astrophysics 608, A93, ADS K2-106, a System Containing a Metal-rich Planet and a Planet of Lower Density
- [56] R Sanchis-Ojeda, JN Winn, F Dai, et al., 2015, The Astrophysical Journal Letters 812, L11, ADS A Low Stellar Obliquity for WASP-47, a Compact Multiplanet System with a Hot Jupiter and an Ultra-short Period Planet

Other Refereed Publications

- [57] J. Šubjak, including F Dai, et al., 2025, Astronomy & Astrophysics 693, A235 ADS TOI-2458 b: A mini-Neptune consistent with in situ hot Jupiter formation
- [58] Q. Liu, including F Dai, et al., 2025, The Astronomical Journal 169, 79 ADS Detecting Planetary Oblateness in the Era of JWST: A Case Study of Kepler-167e
- [59] X. Hua, including F Dai, et al., 2025, The Astrophysical Journal Letters 980, L46 ADS Short-period Small Planets with High Mutual Inclinations are More Common around Metal-rich Stars
- [60] M. Zhang, including F Dai, et al., 2025, The Astronomical Journal 169, 204 ADS Constraining atmospheric composition from the outflow: helium observations reveal the fundamental properties of two planets straddling the radius gap
- [61] L. Handley, including F Dai, et al., 2025, The Astronomical Journal 169, 212 ADS An Obliquity Measurement of the Hot Neptune TOI-1694b
- [62] Z. van Zandt, including F Dai, et al., 2025, The Astronomical Journal 169, 235 ADS
 The TESS-Keck Survey. XXIV. Outer Giants May Be More Prevalent in the Presence of Inner Small Planets
- [63] Y. Li, including F Dai, et al., 2025, The Astrophysical Journal 984, 125 ADS
 K Dwarf Radius Inflation and a 10 Gyr Spin-down Clock Unveiled through Asteroseismology of HD 219134 from the Keck Planet Finder
- [64] R. Li, including F Dai, et al., 2025, The Astronomical Journal 169, 323 ADS

 The Resonant Remains of Broken Chains from Major and Minor Mergers
- [65] Y. Chen, including F Dai, et al., 2025, MNRAS, 540, 1998-2007 ADS Capture and escape of planetary mean-motion resonances in turbulent discs
- [66] A. Howard, including F Dai, et al., 2025, ApJS, 278, 52 ADS Planet Masses, Radii, and Orbits from NASA's K2 Mission
- [67] S. Giacalone, including F Dai, et al., 2025, PASP, 137,10 ADS
- $A\ Hot\ Jupiter\ with\ a\ Retrograde\ Orbit\ around\ a\ Sun-like\ Star\ and\ a\ Toy\ Model\ of\ Hot\ Jupiters\ in\ Wide\ Binary\ Star\ Systems$

- [68] V. Hugo, including F Dai, et al., 2025, A&A, in press ADS

 TOI-1259Ab: A Warm Jupiter Orbiting a K-dwarf White-Dwarf Binary is on a Well-aligned Orbit
- [69] C. Brinkman, including F Dai, et al., 2025, The Astronomical Journal 170, 109, ADS

 The Compositions of Rocky Planets in Close-in Orbits Tend to be Earth-Like
- [70] J. Zhang, including F Dai, et al., 2025, The Astronomical Journal 168, 295, ADS
- A Testbed for Tidal Migration: The 3D Architecture of an Eccentric Hot Jupiter HD 118203 b Accompanied by a Possibly Aligned Outer Giant Planet
- [71] J. Livingston, including F Dai, et al., 2025, Scientific Reports 14, 27219, ADS An ultra-short-period super-Earth with an extremely high density and an outer companion
- [72] M. Hon, including F Dai, et al., 2025, The Astrophysical Journal 975, 147, ADS

 Asteroseismology of the Nearby K Dwarf Draconis Using the Keck Planet Finder and TESS
- [73] X. Wang, including F Dai, et al., 2025, The Astrophysical Journal Letters 973, L21, ADS

 Single-star Warm-Jupiter Systems Tend to Be Aligned, Even around Hot Stellar Hosts: No T eff- Dependency
- [74] N. Saunders, including F Dai, et al., 2024, The Astronomical Journal 168, 2, 81, ADS TESS Giants Transiting Giants. VI. Newly Discovered Hot Jupiters Provide Evidence for Efficient Obliquity Damping after the Main Sequence
- [75] H. Isaacson, including F Dai, et al., 2024, submitted to ApJS, ADS The California Legacy Survey V. Chromospheric Activity Cycles in Main Sequence Stars
- [76] Q. Liu, including F Dai, et al., 2024, submitted to AJ, ADS Detecting Planetary Oblateness in the Era of JWST: A Case Study of Kepler-167e
- [77] S. Lange, including F Dai, et al., 2024, The Astronomical Journal, 167, 6, 21, ADS The TESS-Keck Survey. VII. A Superdense Sub-Neptune Orbiting TOI-1824
- [78] A. Polanski, including F Dai, et al., 2024, The Astrophysical Journal Supplement Series 272, 2, 32, ADS The TESS-Keck Survey. XX. 15 New TESS Planets and a Uniform RV Analysis of All Survey Targets
- [79] D. Pidhorodetska, including F Dai, et al., 2024, submitted to AJ, ADS The TESS-Keck Survey. XXII. A sub-Neptune Orbiting TOI-1437
- [80] M. Limbach, including F Dai, et al., 2024, The Astronomical Journal, 168, 2, 54, 11, ADS Occurrence Rates of Exosatellites Orbiting 3–30 M Jup Hosts from 44 Spitzer Light Curves
- [81] B. Hord, including F Dai, et al., 2024, The Astronomical Journal, 168, 2, 54, 11, ADS

 Identification of the top TESS objects of interest for atmospheric characterization of transiting exoplanets with JWST
- [82] A. Desai, including F Dai, et al., 2024, The Astronomical Journal, 167, 5, 194, ADS

 The TESS-Keck Survey. XVIII. A sub-Neptune and spurious long-period signal in the TOI-1751 system
- [83] F. Liu, including F Dai, et al., 2024, Nature 627 (8004), 501-504, ADS At least one in a dozen stars shows evidence of planetary ingestion
- [84] C. Thomas, including F Dai, et al., 2024, The Astronomical Journal 167, 4, 160, ADS A Tale of Two Peas in a Pod: The Kepler-323 and Kepler-104 Systems
- [85] M. Hill, including F Dai, et al., 2024, The Astronomical Journal 167, 4, 151, ADS The TESS-Keck Survey. XIX. A Warm Transiting Sub-Saturn-mass Planet and a Nontransiting Saturn-mass Planet Orbiting a Solar Analog
- [86] J. Xuan, including F Dai, et al., 2024, The Astrophysical Journal, 962, 1, 21, ADS

 Validation of elemental and isotopic abundances in late-M spectral types with the benchmark HIP 55507 AB system
- [87] A. Householder, including F Dai, et al., 2024, The Astronomical Journal 167, 2, 84, ADS Investigating the Atmospheric Mass Loss of the Kepler-105 Planets Straddling the Radius Gap
- [88] M. Zhang, including F Dai, et al., 2024, The Astrophysical Journal Letters 961, L44, ADS GJ 367b is a dark, hot, airless sub-Earth
- [89] J. Lubin, including F Dai, et al., 2024, The Astronomical Journal 168, 196, ADS The HD 191939 Exoplanet System is Well Aligned and Flat
- [90] J. Orell-Miquel, including F Dai, et al., 2024, Astronomy & Astrophysics 689, A179, ADS

 The MOPYS project: A survey of 70 planets in search of extended He I and H atmospheres-No evidence of enhanced evaporation in young planets
- [91] S. Gibson, including F Dai, et al., 2024, Ground-based and Airborne Instrumentation for Astronomy 13096, 42-70, ADS System design of the Keck Planet Finder
- [92] P. Dalba, including F Dai, et al., 2024, The Astrophysical Journal Supplement, 271, 1, 16, ADS Giant Outer Transiting Exoplanet Mass (GOT'EM) Survey. IV. Long-term Doppler Spectroscopy for 11 Stars Thought to Host Cool Giant Exoplanets
- [93] H. Deeg, including F Dai, et al., 2023, Astronomy & Astrophysics, 677, A12, ADS TOI-1416: A system with a super-Earth planet with a 1.07 d period
- [94] R. Frazier, including F Dai, et al., 2023, The Astrophysical Journal Letters 944, 2, L41, ADS

- NEID Reveals That the Young Warm Neptune TOI-2076 b Has a Low Obliquity
- [95] E. Goffo, including F Dai, et al., 2023, The Astrophysical Journal Letters, 955, 1, L3, ADS

 Company for the ultra-high density, ultra-short period sub-Earth GJ 367 b: discovery of two additional low-mass planets at

 11.5 and 34 days
- [96] C. Harada, including F Dai, et al., 2023, The Astronomical Journal 166, 5, 208, ADS

 Stability and detectability of exomoons orbiting HIP 41378 f, a temperate Jovian planet with an anomalously low apparent density
- [97] A. Householder, including F Dai, et al., 2023, The Astronomical Journal, 167, 2, 84, ADS Investigating the Atmospheric Mass Loss of the Kepler-105 Planets Straddling the Radius Gap
- [98] J. Korth, including F Dai, et al., 2023, Astronomy & Astrophysics 675, A115, ADS TOI-1130: A photodynamical analysis of a hot Jupiter in resonance with an inner low-mass planet
- [99] E. Knudstrup, including F Dai, et al., 2023, Astronomy & Astrophysics 671, A164, ADS

 A puffy polar planet-The low density, hot Jupiter TOI-640 b is on a polar orbit
- [100] E. Knudstrup, including F Dai, et al., 2023, Monthly Notices of the Royal Astronomical Society 519, 4, 5637, ADS Radial velocity confirmation of a hot super-Neptune discovered by TESS with a warm Saturn-mass companion
- [101] R. Luque, including F Dai, et al., 2023, Nature 623, 932–937, ADS A resonant sextuplet of sub-Neptunes transiting the bright star HD 110067
- [102] M. Mallorquín, including F Dai, et al., 2023, Astronomy & Astrophysics 680, A76, ADS TOI-1801 b: A temperate mini-Neptune around a young M0.5 dwarf
- [103] J. Murphy, including F Dai, et al., 2023, The Astronomical Journal 166, 4, 153, ADS

 The TESS-Keck Survey. XVI. Mass Measurements for 12 Planets in Eight Systems
- [104] M. Rice, including F Dai, et al., 2023, The Astronomical Journal 165, 2, 65, ADS The Orbital Architecture of Qatar-6: A Fully Aligned Three-body System?
- [105] S. Vissapragada, including F Dai, et al., 2022, The Astrophysical Journal Letters 941, 2, L31, ADS

 The Possible Tidal Demise of Kepler's First Planetary System
- [106] J. Xuan, including F Dai, et al., 2023, in press, ADS
 Validation of elemental and isotopic abundances in late-M spectral types with the benchmark HIP 55507 AB system
- [107] D. Yong, including F Dai, et al., 2023, Monthly Notices of the Royal Astronomical Society, 526, 2, 2181, ADS C3PO: towards a complete census of co-moving pairs of stars—I. High precision stellar parameters for 250 stars
- [108] S. Yoshida, including F Dai, et al., 2023, The Astronomical Journal 166, 5, 181, ADS TESS Spots a Super-puff: The Remarkably Low Density of TOI-1420b
- [109] M Zhang, R Hu, J Inglis, F Dai, et al. 2023, The Astrophysical Journal Letters, 961, 2, L44, ADS GJ 367b is a dark, hot, airless sub-Earth
- [110] M Rice, S Wang, including F Dai, et al., 2022, The Astronomical Journal, 164, 104, ADS A Tendency Toward Alignment in Single-star Warm-Jupiter Systems
- [111] L Rosenthal, H Knutson, including F Dai, et al., 2022, The Astrophysical Journal Supplement Series, 262, 1, ADS

 The California Legacy Survey III. On The Shoulders of (Some) Giants: The Relationship between Inner Small Planets and
 Outer Massive Planets
- [112] M MacDougall, E Petigura, including F Dai, et al., 2022, The Astronomical Journal, 164, 3, ADS

 The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-Mass Outer Companion around TOI-1272

 TOI-2196 b: Rare planet in the hot Neptune desert transiting a G-type star
- [113] S Yee, J Winn, including F Dai, et al., 2022, The Astronomical Journal, 164, 2, ADS

 The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets
- [114] E Turtelboom, L Weiss, including F Dai, et al., 2022, The Astrophysical Journal Letters, 933, 1, ADS

 The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246
- [115] J Christiansen, S Bhure, including F Dai, et al., 2022, The Astronomical Journal, 163, 6, ADS Scaling K2. V. Statistical Validation of 60 New Exoplanets From K2 Campaigns 2-18
- [116] M Johnson, T David, including F Dai, et al., 2022, The Astronomical Journal, 163, 6, ADS An Aligned Orbit for the Young Planet V1298 Tau b
- [117] L Serrano, D Gandolfi, including F Dai, et al., 2022, Nature Astronomy, 6, 736-750, ADS A low-eccentricity migration pathway for a 13-h-period Earth analogue in a four-planet system The Upper Edge of the Neptune Desert Is Stable Against Photoevaporation
- [118] O Barragan, D Armstrong, including F Dai, et al., 2022, MNRAS, 514, 2, ADS
 The young HD 73583 (TOI-560) planetary system: two 10-M_⊕ mini-Neptunes transiting a 500-Myr-old, bright, and active
- [119] S Grunblatt, N Saunders, including F Dai, et al., 2022, The Astronomical Journal, 163, 3, ADS TESS Giants Transiting Giants. II. The Hottest Jupiters Orbiting Evolved Stars
- [120] S Vissapragada, H Knutson, including F Dai, et al., 2022, The Astrophysical Journal, 927, 1, ADS

- The Maximum Mass-loss Efficiency for a Photoionization-driven Isothermal Parker Wind
- [121] A Munazza, J Kirk, including F Dai, et al., 2022, The Astrophysical Journal Letters, 927, 1, ADS
- The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System
- [122] A Munazza, J Kirk, including F Dai, et al., 2022, The Astrophysical Journal Letters, 927, 1, ADS
- The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System
- [123] K Lam, S Csizmadia, including F Dai, et al., 2022, Science, 374, 6572, ADS
 GJ 367b: A dense, ultrashort-period sub-Earth planet transiting a nearby red dwarf star
- [124] M MacDougall, E Petigura, including F Dai, et al., 2021, The Astronomical Journal, 162, 6, ADS The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166
- [125] V Zandt, E Petigura, including F Dai, et al., 2022, The Astronomical Journal, 161, 1, ADS TESS-Keck Survey XIV: 2 giant exoplanets from the Distant Giants Survey
 - Non-detection of He I in the atmosphere of GJ1214b with Keck/NIRSPEC, at a time of minimal telluric contamination
- [126] M Zhang, H Knutson, L Wang, F Dai, et al., 2021, The Astronomical Journal, 161, 4, ADS No Escaping Helium from 55 Cnc e
- [127] M Zhang, H Knutson, L Wang, F Dai, et al., 2021, The Astronomical Journal, 163, 2, ADS Detection of Ongoing Mass Loss from HD 63433c, a Young Mini Neptune
- [128] N Scarsdale, J Murphy, including F Dai, et al., 2021, The Astronomical Journal, 162, 5, ADS TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935
- [129] M Rice, S Wang, including F Dai, et al., 2021, The Astronomical Journal, 162, 5, ADS SOLES I: The Spin-Orbit Alignment of K2-140 b
- [130] X Wang, M Rice, including F Dai, et al., 2021, The Astrophysical Journal Letters, 926, 2, ADS The Aligned Orbit of WASP-148b, the Only Known Hot Jupiter with a nearby Warm Jupiter Companion, from NEID and HIRES
- [131] N Heidari ; I Boisse, including F Dai, et al., 2021, Astronomy & Astrophysics, Volume 658, 176, ADS HD 207897 b: A dense sub-Neptune transiting a nearby and bright K-type star
- [132] M Kosiarek, D Berardo, including F Dai, et al., 2021, The Astronomical Journal, 161, 1, ADS Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827
- [133] R Luque; L Serrano, including F Dai, et al., 2021, Astronomy & Astrophysics, 645, ADS

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- [181] R Sanchis-Ojeda, S Rappaport, including F Dai, et al., 2015, The Astrophysical Journal 812, 112, ADS

The K2-ESPRINT Project. I. Discovery of the Disintegrating Rocky Planet K2-22b with a Cometary Head and Leading Tail

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Student Advised and Publications

Graduate Students: Rena Lee, Graduate Student, NSF GRFP Fellow, University of Hawaii [2024-Present] R. Lee, F. Dai, et al., 2025, The Astrophysical Journal Letters 983 L36, ADS TOI-6324 b: An Earth-mass Ultra-short-period Planet Transiting a Nearby M Dwarf Elina Zhang, Graduate Student, University of Hawaii [2024-Present] E. Zhang, H. Teng, F. Dai, et al. 2025, The Astrophysical Journal, in press, ADS TOI-880 is an Aligned, Coplanar, Multi-planet System Chase Urasaki, Graduate Student, University of Hawaii [2025-Present] Mu-Tian Wang, Visiting graduate student, Nanjing University [2024-Present] M. Wang, F. Dai, et al., submitted An Adolescent, Near-Resonant Planetary System Near the End of Photoevaporation M. Wang, F. Dai, et al., submitted TOI-4495: A Pair of Aligned, Near-Resonant Sub-Neptunes that Experienced Overstable Migration [2024-Present] Zhecheng Hu, Visiting graduate student, Tsinghua University Z. Hu, F. Dai, et al., submitted Unexpected Near-Resonant and Metastable States of Young Multi-Planet Systems Aaron Householder, Graduate Student, NSF GRFP Fellow, Massachusetts Institute of Technology [2024-Present] A. Householder, F. Dai, et al., in prep The KPF SURFS-UP Survey I: Transmission Spectroscopy of WASP-76 b Undergraduate Students: Finnegan Keller, Visiting undergraduate student, Brown University; Finnegan's thesis (same title as the [2024 Summer] paper) won Brown's Smiley Prize for Excellent Contribution to the Astronomy Program. He also served as a student speaker at Brown's 2025 Commencement. F. Keller, F. Dai & W. Xu, The Astronomical Journal, in press ADS Higher-Order Mean-Motion Resonances Can Form in Type-I Disk Migration [2025 Summer] Diya Kumar, Visiting undergraduate student, SURF, Caltech D. Kumar, F. Dai, et al., in prep Dynamical Disruption of Resonant Chains Quentin Charles, REU Undergraduate Student, University of Hawaii [2025 Summer] Q. Charles, F. Dai, et al., in prep Formation of Hot Jupiters During Type-I Migration Barron Nguyen, Visiting undergraduate student, Standford University [2024 Summer] B. Nguyen, L. Schaefer, F. Dai, et al., in prep A Tidally-Enhanced Outgassed Secondary Atmosphere on 55 Cancri e Yuancheng Xu, Visiting undergraduate student, Oxford University [2024 Summer] Y. Xu & F. Dai, 2025, The Astrophysical Journal 981, 142 ADS Amplifying Resonant Repulsion with Inflated Young Planets, Overlooked Inner Planets, and Nonzero Initial Δ

Former Students:

Aida Behmard, Caltech graduate student co-advised with Andrew Howard, now Kalbfleisch Fellow at Amer-[2019-2023] ican Museum of Natural History

A. Behmard, F Dai, et al., 2023, Monthly Notices of the Royal Astronomical Society, 521, 2, ADS

Planet engulfment detections are rare according to observations and stellar modelling

A. Behmard, F Dai, A. Howard, 2022, The Astronomical Journal, 163, 4 ADS

Stellar Companions to TESS Objects of Interest: A Test of Planet-Companion Alignment

[2019-2024] Ryan Rubenzahl, Caltech graduate student co-advised with Andrew Howard, now Flatiron Fellow

R. Rubenzahl, F Dai, et al., 2024, The Astronomical Journal, 167, 4, 16, ADS

The TESS-Keck Survey. XII. A Dense 1.8 R Ultra-short-period Planet Possibly Clinging to a High-mean-molecular-weight Atmosphere after the First Gigayear

R. Rubenzahl, F Dai, et al., 2024, The Astronomical Journal 168, 189, ADS

 KPF Confirms a Polar Orbit for $\mathit{KELT}\text{-}18\ b$

R. Rubenzahl, F Dai, et al., 2024, The Astrophysical Journal Letters 971, L40, ADS

Obliquity Constraints for the Extremely Eccentric Sub-Saturn Kepler-1656 b

R Rubenzahl, F Dai, et al., 2021, The Astronomical Journal, 161, 3, ADS

TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b

Michael Zhang, Caltech graduate student co-advised with Heather Knutson, now 51 Peg b Fellow at the [2019-2022] University of Chicago

M. Zhang, F Dai, et al., 2023, The Astronomical Journal 165, 62, ADS

Detection of atmospheric escape from four young mini-Neptunes

M. Zhang, F Dai, et al., 2023, The Astrophysical Journal Letters 953, L25 ADS

Outflowing helium from a mature mini-Neptune

Awards & Honors

NSF Faculty Early Career Development Program (CAREER), \$691,228	[2025-2029]
NASA Sagan Fellowship, \sim \$375,000	[2022-2024]
51 Peg b Fellowship, Heising-Simons Foundation, Awarded but declined, $\sim $375,000$	[2022]
GPS Chair's Fellowship, Caltech, ~\$300,000	[2019-2022]
Carnegie Origins Fellowship, Carnegie Observatory, Awarded but declined, ~\$350,000	[2019]
David Thompson Award, Homerton College, University of Cambridge, UK	[2010-2014]
DAAD (Deutscher Akademischer Austauschdienst, German Academic Exchange) RISE Fellowship, Germany	[2013]
SM1 Scholarship, Ministry of Education, Singapore	[2006-2009]

Grants & Telescope Time	
PI, "The Formation and Disruption of Resonant Chains", NSF Faculty Early Career Development Program	[2025-2029]
(CAREER), \$691,228	
PI, "Unveiling the Composition of Earth-sized Planets with the Keck Planet Finder", NSF/AAG Program,	[2025-2027]
\$461,453	
Co-I, "Homogeneous High-Resolution Spectroscopy of Ariel Exoplanet Host Stars", NASA Contributions to	[2025-2027]
Ariel Preparatory Science, \$267,603	
PI, "Composition, Origin, and Fate of the Four Newborn Planets in the V1298 Tau System", NASA James	[2023-2024]
Webb Space Telescope, Awarded 18.7 hours, \$187,000	
PI, "Pinning Down Masses of JWST Ultra-short-period Planets with Keck Planet Finder", NASA Keck Key	[2023-2024]
Strategic Mission Support, Awarded 10 nights, \$75,000	
Co-I, "Keck Planet Finder Stellar Obliquity Survey", NASA/XRP, \$663,394	[2024-2027]
PI, "Catching a Proto-Hot Jupiters in High-eccentricity Migration", ESO/EPRESSO, 1 night	[2023]
PI, "Detecting Mass Loss from Two Ultra-Short-Period Planets", Keck, 2 nights	[2022]
PI, "Stellar obliquities of Warm Jupiters and Hot Neptunes", Keck, 8 nights	[2020-2022]
Co-I, "The First and Only Multi-wavelength Map of an Ultra-short-period sub-Earth" (PI: Michael Zhang), Ja	mes [2021]
Webb Space Telescope, 15.7 hours	
Co-I, "Mass Loss from Small Planets in metastable Helium" (PI: Heather Knutson), Keck/NIRSPEC, 8 nights	[2020-2022]
Co-I, "Lyman alpha absorption from the only mini Neptune with measured helium outflow?" (PI: Michael Zha	ng), [2021]
Hubble Space Telescope Cycle 29, 15 orbits	

[2021]

Collaborator, "The TESS-Keck Survey: Completing the Sample" (PI: Courtney Dressing), Keck, 22 nights

Co-I, "The Atmospheric and Dynamical Evolution of a Sub-Neptune Progenitor" (PI: Shreyas Vissapragada), WIYN/NEID, 1 night Co-I, "Lyman alpha absorption from the only mini Neptune with measured helium outflow?" (PI: Michael Zhang), [2021] Hubble Space Telescope Cycle 29, 15 orbits Co-I, "Refining the Ephemeris of Young, Active Stars Hosting Small Planets" (PI: Michael Zhang), Las Cumbres [2021] Observatory, 3 nights Co-I, "Refining the Ephemeris of Young, Active Stars Hosting Small Planets" (PI: Michael Zhang), Las Cumbres [2020] Observatory, 3 nights Co-I, "How Common is Planet Engulfment?" (PI: Andrew Howard), Keck, 2 nights [2020] Co-I, "A Survey of Atmospheric Escape with WIRC" (PI: Shreyas Vissapragada), Palomar Observatory, 6 nights [2020] Co-I, "Probing mass loss from two mini- Neptunes orbiting a young solar analogue" (PI: Heather Knutson), Hubble Space Telescope Cycle 28, 36 orbits [2020] Years" (PI: Courtney Dressing), Hubble Space Telescope Cycle 28, 18 orbits [2020] Years" (PI: Courtney Dressing), Hubble Space Telescope Cycle 28, 18 orbits [2019] Guest Investigator Program, \$50,000 [2018] Guest Investigator Program, \$50,000 [2018] Substitute of Effect for Small Planets to Explore Planet Formation" (PI: Kevin Schlaufman), TESS [2019] Guest Investigator Program, \$50,000 [2018] Substitute of Earth-like Planets in the Habitable Zone around Bright Low-mass Stars" (PI: Teruyuki Hirano), [2018] Substitute of Easth-like Planets in the Habitable Zone around Bright Low-mass Stars" (PI: Teruyuki Hirano), [2018] Satrobiology Center Research Project, \$22,000 [2018] Co-I, "Finding the Shortest Period Planets with TESS" (PI: Joshua N. Winn), Heising-Simons Foundation, \$380,000 [2018] Co-I, "The KESPRINT radial velocity follow-up of TESS transiting planets: unveiling the nature of small [2018] 2020] worlds" (PI: Davide Gandolfi), ESO/HARPS, 78 nights [2018] Co-I, "Radial velocity follow-up observations of K2 transiting small planets" (PI: Davide Gandolfi), Nordic Optical Telescope,	Co-1, "The X-ray Spectra of Young, Active Stars Hosting Small Planets" (PI: Michael Zhang), XMM-Newton, 10 hours	[2021]
WIYN/NEID, 1 night Co-I, "Lyman alpha absorption from the only mini Neptune with measured helium outflow?" (PI: Michael Zhang), [2021] Hubble Space Telescope Cycle 29, 15 orbits Co-I, "Refining the Ephemeris of Young, Active Stars Hosting Small Planets" (PI: Michael Zhang), Las Cumbres [2021] Observatory, 3 nights Co-I, "Refining the Ephemeris of Young, Active Stars Hosting Small Planets" (PI: Michael Zhang), Las Cumbres [2021] Observatory, 3 nights Co-I, "How Common is Planet Engulfment?" (PI: Andrew Howard), Keck, 2 nights [2020] Co-I, "A Survey of Atmospheric Escape with WIRC" (PI: Shreyas Vissapragada), Palomar Observatory, 6 nights [2020] Co-I, "Probing mass loss from two mini- Neptunes orbiting a young solar analogue" (PI: Heather Knutson), Hubble [2020] Space Telescope Cycle 28, 36 orbits Collaborator, "Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 [2020] Years" (PI: Courtney Dressing), Hubble Space Telescope Cycle 28, 18 orbits Co-I, "Using the Metallicity Effect for Small Planets to Explore Planet Formation" (PI: Kevin Schlaufman), TESS [2019] Guest Investigator Program, \$50,000 Collaborator, "A Southern Hemisphere RV Follow-up Program for TESS" (PI: Stephen Shectman), NASA/XRP, [2018] \$416,000 Co-I, "A Search for Earth-like Planets in the Habitable Zone around Bright Low-mass Stars" (PI: Teruyuki Hirano), [2018] Astrobiology Center Research Project, \$22,000 Co-I, "Finding the Shortest Period Planets with TESS" (PI: Joshua N. Winn), Heising-Simons Foundation, \$380,000 [2018] Co-I, "The KESPRINT radial velocity follow-up of TESS transiting planets: unveiling the nature of small [2018 - 2020] worlds" (PI: Davide Gandolfi), ESO/HARPS, 78 nights Co-I, "Radial velocity follow-up observations of K2 transiting small planets" (PI: Davide Gandolfi), Nordic Optical Telescope, 8 nights Co-I, "Validation of Exoplanets from K2 Campaigns 14–16" (PI Joshua N. Winn), WIYN/NESSI, 4 nights Co-I, "Spectroscopic follow-up observations of small transiting planets from the K2 m		[2021]
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Hubble Space Telescope Cycle 29, 15 orbits Co-I, "Refining the Ephemeris of Young, Active Stars Hosting Small Planets" (PI: Michael Zhang), Las Cumbres [2021] Observatory, 3 nights Co-I, "How Common is Planet Engulfment?" (PI: Andrew Howard), Keck, 2 nights [2020] Co-I, "A Survey of Atmospheric Escape with WIRC" (PI: Shreyas Vissapragada), Palomar Observatory, 6 nights [2020] Co-I, "Probing mass loss from two mini- Neptunes orbiting a young solar analogue" (PI: Heather Knutson), Hubble [2020] Space Telescope Cycle 28, 36 orbits Collaborator, "Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 [2020] Years" (PI: Courtney Dressing), Hubble Space Telescope Cycle 28, 18 orbits Co-I, "Using the Metallicity Effect for Small Planets to Explore Planet Formation" (PI: Kevin Schlaufman), TESS [2019] Guest Investigator Program, \$50,000 Collaborator, "A Southern Hemisphere RV Follow-up Program for TESS" (PI: Stephen Shectman), NASA/XRP, [2018] *416,000 Co-I, "A Search for Earth-like Planets in the Habitable Zone around Bright Low-mass Stars" (PI: Teruyuki Hirano), [2018] Astrobiology Center Research Project, \$22,000 Co-I, "Finding the Shortest Period Planets with TESS" (PI: Joshua N. Winn), Heising-Simons Foundation, \$380,000 [2018] Co-I, "The KESPRINT radial velocity follow-up of TESS transiting planets: unveiling the nature of small [2018 - 2020] worlds" (PI: Davide Gandolfi), ESO/HARPS, 78 nights Co-I, "Radial velocity follow-up observations of K2 transiting small planets" (PI: Davide Gandolfi), Nordic Optical Telescope, 8 nights Co-I, "Short-Cadence Observations of Identified K2 Planet Candidates" (PI: Joshua Winn), K2 Guest Observer [2016]	· · · · · · · -	[9091]
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Teaching and Outreach

Instructor, Astrophysical Techniques (AST 633, Graduate Level), University of Hawaii	[2024-2025]
Organizer/Mentor for Intro2Astro Workshop, 400+ participants	[2021-2025]
Introduction to Astronomy Research Youtube Channel	
Institute for Astronomy Open House	[2024-2025]
Guest Lecturer, Astronomical Measurements and Instrumentation (ay122, Graduate Level), Caltech	[2021-2023]
Mentor for Caltech WAVE Undergraduate Summer Program	[2021]
Public Webinar "Exoplanet Detection Methods"	[2021]
Speaker for AstroSprint Online Workshop, 100+ participants	[2021]
Public Talk "Aperture Photometry and the Transiting Exoplanet Survey Satellite"	[2021]
Public Webinar "Discovering Exoplanets with TESS Light Curves in Python"	[2021]
Astronomy on Tap,"The Least Habitable Planets", Caltech	[2021]
KAZN AM1300 Radio Station, "Life Outside Earth", Los Angeles	[2021]

Talks

Physics & Astronomy Colloquium, University of California Los Angeles	[2025]
Resonant State Workshop, University of Geneva	[2025]
Planets on the Edge Conference, University of Santa Barbara	[2025]
Solar System in Context, NOIRLab Science Conference	[2025]
PSAS Seminar, Georgia Tech	[2025]
Asia Oceania Geosciences Society Conference, Korea	[2024]

Astronomy Colloquium, University of Hawaii at Manoa	[2023]
PLUNCH talk, University of California Santa Cruz	[2023]
Planetary Science Seminar, University of California Los Angeles	[2023]
Physics Colloquium, University of Rochester	[2023]
Astronomy Colloquium, University of Toronto	[2023]
Astronomy Colloquium, University of Virginia	[2023]
Physics Colloquium, Tufts University	[2023]
Stars and Planets Lunch and Talks, University of Hawaii at Manoa	[2022]
TESS Science Meeting, MIT	[2022]
Astronomy Colloquium, Yale	[2022]
Exoplanet Journal Club, Jet Propulsion Lab	[2022]
Astro Seminar Series, Kansas University	[2022]
Physics Colloquium, Washington University in St Louis	[2022]
Keck Science Meeting, Caltech	[2022]
Hubble Symposium, Space Telescope Science Institute	[2022]
Exoplanet Meeting, Princeton University	[2022]
Exoplanet Group Meeting, University of Chicago	[2021]
KIAA Seminar, KIAA/Peking University	[2021]
Emerging Researchers in Exoplanet Science Symposium	[2021]
Planet Group Meeting, Ohio State University	[2021]
Exoplanet Demographics Conference, NExSci	[2020]
Exoplanet Meeting, Princeton University	[2020]
DIX Planetary Science Seminar, Caltech	[2020]
Boston Area Exoplanet Science Meeting, Harvard-Smithsonian Center for Astrophysics	[2019]
Exoplanet Group Meeting, University of Chicago	[2018]
IPAC Seminar, NExSci	[2018]
ExoCoffee, University of California, Berkeley	[2018]
Exoplanet Tea, Massachusetts Institute of Technology	[2018]
Stars & Planets Seminar, Harvard-Smithsonian Center for Astrophysics	[2018]
Exoplanet Pizza Lunch, Harvard-Smithsonian Center for Astrophysics	[2018]
Exoplanet Seminar, Yale University	[2018]
Center for Exoplanets and Habitable Worlds Seminar, Penn State University	[2018]
Emerging Researchers in Exoplanet Science Symposium IV	[2018]
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Panelist for National Science Foundation Astronomy & Astrophysics Program	[2024]
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