# Jiayin (DJ) **Dong**

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### **Education**

#### **Pennsylvania State University**

State College, PA Ph.D. in Astronomy & Astrophysics; Ph.D. minor in Computational Science Summer 2022 (expected) M.S. in Astronomy & Astrophysics

#### University of Illinois at Urbana-Champaign

B.S. in Engineering Physics and Astronomy (dual degree) with honors

## **Fellowships & Awards**

2021	<b>Duncombe Prize</b> Student research prize awarded by AAS Division on Dynamical Astronomy
2018-20	Zaccheus Daniel Fellowship (x3) Penn State travel grants for graduate student research
2020	<b>CCA Pre-Doctoral Fellowship</b> Selected as a predoc fellow at CCA, Flatiron Institute in Spring 2020
2019	Student Poster Competition Winner at New Horizons in Planetary Systems Conference
2018	Sagan Workshop Travel Award Travel support for 2018 Sagan Exoplanet Summer Workshop
2017	Homer F. Braddock Fellowship University scholarship awarded to selected 1st-year graduate students
2014-17	<b>Edmund J. James Scholar</b> Undergraduate honor program at the University of Illinois

## **Refereed Publications**

First-authored publications

- [5] Dong, J., Huang, C., Zhou, G., Dawson, R., et al. 2021, "NEID Rossiter-McLaughlin Measurement of TOI-1268b: A Young Warm Saturn Aligned with Its Cool Host Star", submitted to AAS Journals
- Dong, J., Jiang, Y., & Armitage, P. 2021, "Boundary Layer Circumplanetary Accretion: How Fast Could an Unmagnetized Planet Spin Up Through Its Disk?", ApJ, **921**, 54 (15pp)
- [3] **Dong, J.**, Huang, C., Zhou, G., Dawson, R., et al. 2021, "TOI-3362b: A Proto-Hot Jupiter Undergoing High-Eccentricity Tidal Migration", ApJL, **920**, 16 (11pp)
- [2] **Dong, J.**, Huang, C., Dawson, R., Foreman-Mackey, D., et al. 2021, "Warm Jupiters in TESS Full-Frame Images: A Catalog and Observed Eccentricity Distribution for Year 1", ApJS, **255**, 6 (25pp)
- Dong, J., Dawson, R., Shannon, A., & Morrison, S. 2020, "Debris Disks in Multi-Planet Systems: Are Our Inferences Compromised by Unseen Planets?", ApJ, **889**, 47 (19pp)

#### Selected co-authored publications

- [4] Stefánsson et al. incl. **Dong, J.** 2021, "The Warm Neptune GJ 3470b has a Polar Orbit", submitted to AAS Journals
- [3] Foreman-Mackey et al. incl. **Dong, J.** 2021, "exoplanet: Gradient-based Probabilistic Inference for Exoplanet Data & Other Astronomical Time Series", JOSS, 6, 3285
- [2] Dawson et al. incl. **Dong, J.** 2021, "Precise Transit and Radial-Velocity Characterization of a Resonant Pair: A Warm Jupiter TOI-216c and Eccentric Warm Neptune TOI-216b", AJ, 161, 161
- Kanodia et al. incl. **Dong, J.** 2020, "TOI-1728b: The Habitable-zone Planet Finder Confirms a Warm Super Neptune Orbiting an M Dwarf Host", ApJ, 899, 1

April 2019

May 2017

Champaign, IL

## **Successful Observing Proposals**

PI of PSU NEID (2020–2021), 38.5 hours (including 16-hour P0/1 time), Architecture of TESS Warm Jupiter Systems

PI of NOIRLab NEID (2021), 5 hours, Conquering Stellar Variability for Young Planet Mass

PI of NOIRLab CHIRON (2020–2021), 80 hours, TESS Warm Jupiter Catalog: Validation and Follow-up

PI of NOIRLab LCOGT (2020–2021), 80 hours, TESS Warm Jupiter Catalog: Validation and Follow-up

PI of NOIRLab MINERVA-Australias (2021), 40 hours, TESS Warm Jupiter Catalog: Validation and Follow-up

**CO-I** on 3 other proposals, total of 49.2 hours of NEID, and total of 3 hours of NESSI

## **Recent Contributed/Invited Talks**

Over my graduate career, I have given **5** invited seminars, **7** contributed conference talks, **6** contributed conference posters, and **5** contributed seminars and lunch talks. Recent talks are listed below.

Oct. 2021	Princeton Exoplanet Seminar Princeton, NJ
Oct. 2021	Caltech Planetary Science Seminar Pasadena, CA
Oct. 2021	Berkeley Center for Integrative Planetary Science Seminar Berkeley, CA (Virtual)
Oct. 2021	Carnegie EPL Astronomy Seminar Washington, D.C. (Virtual)
Sep. 2021	CfA Seminar Boston, MA (Virtual)
May 2021	The 52nd DDA Meeting (Virtual, Duncombe Prize Winner)
Jan. 2021	TESS Science Meeting 24 Boston, MA (Virtual)
Nov. 2020	Exoplanet Demographics I Pasadena, CA (Virtual)
July 2020	Exoplanets III Heidelberg, Germany (Virtual)
June 2020	CCA Pre-Doctoral Symposium New York, New York (Virtual)

## **Mentoring Experience**

2021-now	Claire DiPerna, Penn State UG, Class of 2024, co-supervised with Bekki Dawson
2021-now	Jonathon Hope, Penn State UG, Class of 2024, co-supervised with Bekki Dawson

## **Selected Teaching/Outreach/Professional Experience**

2021	Sagan Workshop Hands-on Session Helper Facilitated hands-on session at Sagan workshop 2021
2021	Organizing Committee for the 6th Emerging Researchers in Exoplanet Science symposium
2020	Panelist on the Graduate School Information Session for Penn State undergraduate students
2020	<b>Moderator</b> for Exoplanets III; 950+ online participants; Coordinated with Transits 1 & 2 sessions
2017-19	<b>Exploring Exoplanets Demonstrator; The Guardian of Kid Prizes</b> at AstroFest (4-night outreach, 2500+ public
	visitors) & Astronight (1-night outreach, 500+ students)
Fall 2019	Journal Club Organizer for the Center for Exoplanets and Habitable Worlds
2019	Executive Secretary of NASA XRP Review Panel
2018	Organizing Committee for the 4th Emerging Researchers in Exoplanet Science symposium
2017-18	Teaching Assistant and Guest Lecturer of undergraduate-level astronomy courses

## **Selected Press Release**

2021	Eberly College Science News & MINERVA-Australis Press Super-eccentric Warm Jupiter (Dong+21b)
2021	AAS Journal Author Series Interviewed with AAS Editor Frank Timmes on Dong+2021a
2020	<b>Eberly College Science Journal Winter Edition</b> Highlighted research on "Detail in the Debris" (Dong+2020)