Jiaru Li

Research Interests

Planetary dynamics; hydrodynamics of protoplanetary disks; planet-disk interactions; gravitational wave sources in accretion disks around active galactic nuclei.

Education

Cornell University, Ithaca, NY, USA - Ph.D. in Astronomy and Space Sciences, May 2023 o Advisor: Prof. Dong Lai	Sept. 2017 - May 2023
 Thesis: Dynamical Evolution of Multi-Orbiter Systems: Application to Planets, Protoplanetary Disks, and Black Holes M.S. in Astronomy, Dec 2019 	
University of Toronto at Scarborough, Toronto, ON, Canada - H.B.Sc. in Physics (Specialist) and Mathematics (Major), May 2017	Sept. 2013 - May 2017
Experience	
CIERA Postdoctoral Fellow Center for Interdisciplinary Exploration and Research in Astrophysics, Northwest- ern University Supervisor: Prof. Yoram Lithwick	2023 - present
Graduate Research Assistant Department of Astronomy and Space Sciences, Cornell University Advisor: Prof. Dong Lai	2017 - 2023
CSES Graduate Student Fellow Theoretical Division, Los Alamos National Laboratory Mentor: Dr. Hui Li	2020 - 2022
UTEA Undergraduate Research Assistant Department of Physical and Environmental Sciences, University of Toronto at Scarborough Supervisor: Prof. Artur Izmaylov	2015 - 2017
Selected Honors and Awards	
CIERA Postdoctoral Fellowship, Northwestern University CSES Student Fellowship, Los Alamos National Laboratory New Graduate Student Fellowship, Cornell University Governor General's Silver Medal Nomination, University of Toronto Samuel Beatty In-Course Scholarship, University of Toronto University of Toronto Excellence Award	2023 2020 2017 2017 2017 2016
E-Fund Scholarship, University of Toronto at Scarborough Vincent Bladen Scholarship, University of Toronto at Scarborough	2013 - 2016 2015
A. D. Allen Memorial Scholarship, University of Toronto at Scarborough	2014
Selected Teaching Experience	
Our Solar System, Teaching Assistant, Cornell University	2019
From New Worlds to Black Holes, Teaching Assistant, Cornell University	2018

Calculus I & II for Math Major, Teaching Assistant, University of Toronto	2016 - 2017
Physics I & II for Biology Students, Lab Leader, University of Toronto	2016 - 2017
Linear Algebra II, Teaching Assistant, University of Toronto	2016
Discrete Mathematics for Computer Scientists, Teaching Assistant, Univer-	2014 - 2015
sity of Toronto	

Selected Presentations

Invited Talks

- o 10/2024 Seminar: Theoretical Astrophysics Center Seminar, University of California, Berkeley
- 10/2024 Conference: Transient Phenomena and Physical Processes Around Supermassive Black Holes, Tsung-Dao Lee Institute, China
- o 09/2024 Seminar: Department of Astronomy Tea Talk, Indiana University Bloomington
- o 08/2024 Conference: New Ideas on the Origin of Black Hole Mergers, Niels Bohr Institute, Denmark
- o 03/2024 Seminar: Center for Theory and Computation Seminar, University of Maryland
- $\circ~01/2024$ Seminar: ET Science Seminar, Shanghai Astronomical Observatory, Chinese Academy of Sciences, China
- o 03/2023 Conference: AGN Santa Fe: "Where are the Objects in AGN Disks", Santa Fe, NM
- o 11/2022 Seminar: Center for Exoplanets and Habitable Worlds Seminar, Penn State University
- o 10/2022 **Seminar:** Center for Relativistic Astrophysics Seminar, Georgia Tech

Other Recent Talks

- o 07/2024 Conference: Emerging Researchers in Exoplanet Science Symposium IX, Cornell University
- o 05/2024 Conference: The 55th AAS Division on Dynamical Astronomy Meeting, University of Toronto
- o 12/2023 Conference: Exoplanets and Planet Formation Workshop, Beijing, China
- o 12/2023 Conference: The 32nd Texas Symposium on Relativistic Astrophysics, Shanghai, China
- o 05/2023 **Conference:** The 54th AAS Division on Dynamical Astronomy Meeting, Michigan State University
- o 12/2022 Group Meeting: Planetary Formation Group, CCA, Flatiron Institute
- o 11/2022 Seminar: Planet Lunch Seminar, Princeton University
- o 10/2022 Workshop: Recent Advances in Supermassive Black Holes, Cornell University
- o 08/2022 **Seminar:** Astrophysics Seminar, Los Alamos National Laboratory
- o 05/2021 Conference: Distorted Astrophysical Discs, Kavli Institute for Cosmology, Cambridge, UK

Selected Service

Reviewer for *Monthly Notices of the Royal Astronomical Society* and *Astronomy and Astrophysics*. **Panelist reviewer** for *NASA* research program proposals.

Organizer for Center for Interdisciplinary Exploration and Research in Astrophysics Journal Clubs.