Kan Chen

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Education

• University College London (UCL) PhD candidate in Astrophysics Supervisors: Dr. Mihkel Kama & Dr. Paola Pinilla	2021.11 - 2025.5 London, UK
• University of Cambridge MASt (=MSc) in Astrophysics Supervisor: Dr. Marco Tazzari Thesis: Characterising the Properties of Protoplanetary Disks with ALMA	2019.9 - 2020.6 Cambridge, UK
• Nanjing University (NJU) Master candidate of Astrometry and Celestial Mechanics	2017.9 - 2019.6 Nanjing, China
• Sun Yat-sen University (SYSU) BEng in Theoretical and Applied Mechanics	2013.8 - 2017.6 Guangzhou, China

Research Interests

- Protoplanetary disks: simulations of planet and disk interactions and kinematics
- Planet formation: theory, in the context of streaming instability
- Disk observations: characterize protoplanetary disk properties with ALMA data

Publications [ADS]

- Mind the kinematics simulation of planet-disk interactions: time evolution and numerical resolution Chen, K., & Dong, R. 2024, ApJ, 976, 49
- Planet Gap-opening Feedback on Disk Thermal Structure and Composition Chen, K., Kama, M., Pinilla, P., & Keyte, L. 2024, MNRAS, 527, 2049
- How Efficient Is the Streaming Instability in Viscous Protoplanetary Disks? Chen, K., & Lin, M.-K. 2020, ApJ, 891, 132

Awards

\bullet Joint Scholarship of UCL Dean's Prize & China Scholarship Council (£42,200×4)	2021-2025
• UCL Astro annual research grant $(£1,200\times4)$	2021-2025
• UCL Physics and Astronomy PhD Student Conference Fund (£1,100)	2023-2024
• UCL Astro small grants (£1,000)	2023-2024
• ASIAA visiting studentship (£1,200)	2019
• The First Prize Postgraduate Admission Scholarship, NJU (£1,000)	2017
• ASIAA summer studentship (£800)	2017
• The First Prize Scholarship, SYSU (top 3%, £220)	2014-2015
• Meritorious Winner, Mathematical Contest in Modeling (USA)	2015

Scientific	Talks	and	Prese	ntations
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Scientific Talks and Presentations			
• Seminar, PDS seminar, Tsinghua University, Beijing, China	2024.12		
• Seminar, ESS Lecture, South China University of Technology, Shenzhen, China	2024.12		
• Seminar, Exoplanet Seminar, Sun Yat-sen University, Zhuhai, China			
• Seminar, Exoplanet Seminar, Nanjing University, Najing, China	2024.12		
• Talk, 2024 PKU International PhD Student Astronomy Forum, Peking University, China	a 2024.12		
• Seminar, MSSL Astro Seminar, University College London, online	2024.10		
• Poster, New Heights in Planet Formation, Garching, Germany	2024.7		
• Talk, London Exoplanet Day, London, UK	2024.5		
• Seminar, ET Science Seminar Series, Shanghai Astronomical Observatory, online	2024.4		
• Seminar, Astrobiology and Planetary Exploration (APEX) Seminar, London, UK	2024.2		
• Talk, Exoplanets and planet formation 2023, Beijing, China	2023.12		
• Talk, UK Exoplanet Meeting 2023, London, UK	2023.8		
• Poster, Protostars and Planets VII, Kyoto, Japan	2023.4		
Teaching and professional services			
• LOC, EXOHOST Research Mapping Workshop, London, UK	2024.11		
• Assistant supervisor for master project (with Paola Pinilla), Andrew Allan, UCL	2023-2024		
• Teaching assistant, Computational practical physics I & II, UCL	2022-2023		
• Student host, UCL Astro seminar series	2023-2024		
• Organiser, UCL Origins of Planetary Chemical Diversity group meeting	2022-2023		
Computing Experience			
• Kinematic simulations of planet-disk interactions, University of Victoria/Compute Canada Nvidia A100 GPU hours allocated	a, 1.8×10^4		
Outreach and professional development			
Outreach			
• Mentor, In2ScienceUK initiative ¹	2023.7		
• Mentor, Shift25 initiative ²	2023.7		
- Weiled, Shires includive			
	2024.9		
Professional development			
Professional development • EXOHOST school on Planet formation and populations, Tartu, Estonia	2024.9 2024.6 2022.5		

¹https://in2scienceuk.org ²https://www.shift25.org.uk