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	Preser	tations
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Scientific Talks and Presentations	
• Seminar, Exoplanet Seminar, Sun Yat-sen University, Zhuhai, China	2024.12
• Seminar, Exoplanet Seminar, Nanjing University, Najing, China	2024.12
• Talk, 2024 PKU International PhD Student Astronomy Forum, Peking University, China	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	1.8×10^4
Outreach and professional development	

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Outreach	
• Mentor, In2ScienceUK initiative ¹	2023.7
• Mentor, Shift25 initiative ²	2023.7
Professional development	
• EXOHOST school on Planet formation and populations, Tartu, Estonia	2024.9
• European ALMA School 2024, Manchester, UK	2024.6
• 1st Dustbusters School on Protoplanetary Disks, Gargnano, Italy	2022.5
• Sagan Exoplanet Summer Workshop, online	2021.6
• TIARA Summer School on Origins of the Solar System, Taipei, Taiwan	2018.7

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