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	Proson	tations
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 Poster, New Heights in Planet Formation, Garching, Germany Talk, London Exoplanet Day, London, UK Seminar, ET Science Seminar Series, Shanghai Astronomical Observatory, online Seminar, Astrobiology and Planetary Exploration (APEX) Seminar, London, UK Talk, Exoplanets and planet formation 2023, Beijing, China Talk, UK Exoplanet Meeting 2023, London, UK Poster, Protostars and Planets VII, Kyoto, Japan 2023.4 	• Seminar, MSSL Astro Seminar, University College London, online	2024.10
 Seminar, ET Science Seminar Series, Shanghai Astronomical Observatory, online Seminar, Astrobiology and Planetary Exploration (APEX) Seminar, London, UK Talk, Exoplanets and planet formation 2023, Beijing, China Talk, UK Exoplanet Meeting 2023, London, UK 2023.12 2023.8 	• Poster, New Heights in Planet Formation, Garching, Germany	2024.7
 Seminar, Astrobiology and Planetary Exploration (APEX) Seminar, London, UK Talk, Exoplanets and planet formation 2023, Beijing, China Talk, UK Exoplanet Meeting 2023, London, UK 2023.12 2023.8 	• Talk, London Exoplanet Day, London, UK	2024.5
 Talk, Exoplanets and planet formation 2023, Beijing, China 2023.12 Talk, UK Exoplanet Meeting 2023, London, UK 2023.8 	• Seminar, ET Science Seminar Series, Shanghai Astronomical Observatory, online	2024.4
• Talk, UK Exoplanet Meeting 2023, London, UK 2023.8	• Seminar, Astrobiology and Planetary Exploration (APEX) Seminar, London, UK	2024.2
	• Talk, Exoplanets and planet formation 2023, Beijing, China	2023.12
• Poster, Protostars and Planets VII, Kyoto, Japan 2023.4	• Talk, UK Exoplanet Meeting 2023, London, UK	2023.8
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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

 \bullet Kinematic simulations of planet-disk interactions, University of Victoria/Compute Canada, 1.8×10^4 Nvidia A100 GPU hours allocated

Outreach and professional development

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

 $^{^{1}}$ https://in2scienceuk.org

²https://www.shift25.org.uk