Rimpei Chiba

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EMPLOYMENT

2025 - 2028	JSPS Postodoctoral Fellow, University of Tokyo
2022 - 2025	CITA Postodoctoral Fellow. University of Toronto

EDUCATION

2018 - 2022	D.Phil. in Theoretical Physics, University of Oxford
2016 - 2018	M.Sc. in Physics, Tokyo Institute of Technology & TU Wien
2012 - 2016	B.Sc. in Aerospace Engineering, Tokyo Institute of Technology

PUBLICATION

- [7] Chiba R., Frankel N., Hamilton C., Origin of the two-armed vertical phase-spiral in the inner Galactic disk, arXiv:2503.20869, (2025)
- [6] Chiba R., Kataria S. K., Origin of reduced dynamical friction by dark matter halos with net prograde rotation, Mon. Not. R. Astron. Soc., 528, 4115-4124 (2024)
- [5] Chiba R., Dynamical friction and feedback on galactic bars in the general fast-slow regime, Mon. Not. R. Astron. Soc., 525, 3576-3596 (2023)
- [4] Chiba R., Schönrich R., Oscillating dynamical friction on galactic bars by trapped dark matter, Mon. Not. R. Astron. Soc., 513, 768-787 (2022)
- [3] **Chiba R.**, Schönrich R., Tree-ring structure of Galactic bar resonance, Mon. Not. R. Astron. Soc., 505, 2412-2426 (2021)
- [2] Chiba R., Jennifer F., Schönrich R., Resonance sweeping by a decelerating Galactic bar, Mon. Not. R. Astron. Soc., 500, 4710-4729 (2021)
- [1] **Chiba R.**, Ishikawa Y., Hasegawa J., Horioka K., Time evolution of laser-ablation plumes and induced shock waves in low-pressure gas, American Institute of Physics, Physics of Plasmas, 24, 063520 (2017)

SCHOLARSHIPS AND AWARDS

2025 - 2028	JSPS Postdoctoral Fellowship
2022 - 2025	CITA Postdoctoral Fellowship
2018 - 2022	Takenaka Scholarship for overseas studies
2018	Best Master Thesis Award (Tokyo Institute of Technology)
2017	Young Poster Award (International Astronomical Union, Symposium 335)
2016 - 2017	Tobitate Scholarship (Japan Young Ambassador Program)

SCIENTIFIC PRESENTATION

02/2025	Talk, Como Lake centre for AstroPhysics, Colloquium (Como, Italy)
01/2025	Talk, Conference IAStrophysical Waves (Princeton, US)
09/2024	Talk, Nanjing University, Astrophysics seminar (Nanjing, China)
09/2024	Talk, Conference "Waves in the Milky Way Disk" (Shanghai, China)
06/2024	Blackboard Talk, KITP Program "Interconnections between the Physics of Plasmas

and Self-gravitating Systems" (Santa Barbara, US) 01/2024Talk, Shanghai Jiao Tong University, Astronomy seminar (Shanghai, China) 09/2023Talk, Institute for Advanced Study, Astrophysics seminar (Princeton, US) 07/2023Poster, Galactic bars: driving and decoding galaxy evolution (Granada, Spain) 06/2023Talk, Canadian Astronomical Society, Annual meeting (Penticton, Canada) 12/2022Talk, CITA seminar (Toronto, Canada) 11/2022 Talk, University of Leicester, Astrophysics seminar (Leicester, UK) 01/2022Talk, University College London, MSSL seminar (London, UK) 07/2021Talk, National Astronomy Meeting (Bath, UK) 02/2021Talk, University of Oxford, Galaxy Journal Club seminar (Oxford, UK) 07/2020Talk, European Astronomical Society, Annual meeting (Leiden, Sweden) 12/2019Talk, University of Surrey, Milky Way Local Group seminar, (Surrey, UK) 09/2017Talk, The Physical Society of Japan, Annual meeting (Iwate, Japan) 07/2017Poster, International Astronomical Union, Symposium 335 (Exeter, UK) 04/2017Poster, European Geoscience Union, General Assembly (Vienna, Austria) 01/2016Talk, National Institute of Fusion Science, Conference (Gifu, Japan)

ACADEMIC SERVICES

2022 - 2025 CITA blackboard seminar, organizer

Review: Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics,

Astrophysical Journal

SKILLS

Computing: C/C++, python, MPI, OpenMP Language: Japanese (native), English (fluent)

REFERENCES

• Ralph Schönrich

Mullard Space Science Laboratory, University College London r.schoenrich@ucl.ac.uk

• John Magorrian

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• James Binney

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• Peter Martin

Canadian Institute for Theoretical Astrophysics, University of Toronto pgmartin@cita.utoronto.ca

• Michiko Fujii

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