

Rimpei Chiba

Postdoctoral Fellow, Canadian Institute for Theoretical Astrophysics (CITA)
University of Toronto, 60 St. George Street, Toronto, ON, M5S 3H8, Canada
rchiba@cita.utoronto.ca
ORCID: 0000-0002-3445-855X

EMPLOYMENT

2022 - 2025 **CITA Postdoctoral 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.E. in Aerospace Engineering*, Tokyo Institute of Technology

PUBLICATION

- [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

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

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)
01/2024 Talk, Shanghai Jiao Tong University, Astronomy seminar (Shanghai, China)
09/2023 Talk, Institute for Advanced Study, Astrophysics seminar (Princeton, US)
07/2023 Poster, Galactic bars: driving and decoding galaxy evolution (Granada, Spain)
06/2023 Talk, Canadian Astronomical Society, Annual meeting (Penticton, Canada)

12/2022 Talk, CITA seminar (Toronto, Canada)
11/2022 Talk, University of Leicester, Astrophysics seminar (Leicester, UK)
01/2022 Talk, University College London, MSSL seminar (London, UK)
07/2021 Talk, National Astronomy Meeting (Bath, UK)
02/2021 Talk, University of Oxford, Galaxy Journal Club seminar (Oxford, UK)
07/2020 Talk, European Astronomical Society, Annual meeting (Leiden, Sweden)
12/2019 Talk, University of Surrey, Milky Way Local Group seminar, (Surrey, UK)
09/2017 Talk, The Physical Society of Japan, Annual meeting (Iwate, Japan)
07/2017 Poster, International Astronomical Union, Symposium 335 (Exeter, UK)
04/2017 Poster, European Geoscience Union, General Assembly (Vienna, Austria)
01/2016 Talk, National Institute of Fusion Science, Conference (Gifu, Japan)

ACADEMIC SERVICES

2022 - CITA blackboard seminar, organizer
Review: Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics,
The Astrophysical Journals

SKILLS

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

REFERENCES

- **Juna Kollmeier**
Canadian Institute for Theoretical Astrophysics, University of Toronto
jak@cita.utoronto.ca
- **Ralph Schönrich**
Mullard Space Science Laboratory, University College London
r.schoenrich@ucl.ac.uk
- **John Magorrian**
Rudolf Peierls Centre for Theoretical Physics, University of Oxford
john.magorrian@physics.ox.ac.uk
- **James Binney**
Rudolf Peierls Centre for Theoretical Physics, University of Oxford
james.binney@physics.ox.ac.uk
- **Jun Hasegawa**
Institute of Innovative Research, Tokyo Institute of Technology
jhasegawa@zic.iir.titech.ac.jp