

Yingtian (Bill) Chen

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Education

- **University of Michigan Department of Astronomy** Ann Arbor, MI, US
Ph.D. candidate in Astronomy 2020 – Current
- **Peking University School of Physics** Beijing, China
B.S. in Physics (with honours) 2016 – 2020

Experience

- **MIT Kavli Institute** Cambridge, MA, US
Visiting Researcher 2019

Publications

First author citations > 40; h-index = 4

1. **Chen, Y.** & Gnedin, O. Y. Galaxy assembly revealed by globular clusters. *in prep.* (2023).
2. Pearson, S., Bonaca, A., **Chen, Y.** & Gnedin, O. Y. Where to search for missing stellar streams: Expected globular cluster stream populations of Milky Way-type galaxies. *in prep.* (2023).
3. **Chen, Y.** & Gnedin, O. Y. Catalogue of model star clusters in the Milky Way and M31 galaxies. *MNRAS submitted* (2023).
4. **Chen, Y.** & Gnedin, O. Y. Formation of globular clusters in dwarf galaxies of the Local Group. *MNRAS* **522**, 5638 (2023).
5. **Chen, Y.** & Gnedin, O. Y. Modeling the kinematics of globular cluster systems. *MNRAS* **514**, 4736 (2022).
6. **Chen, Y.**, Li, H. & Vogelsberger, M. Effects of initial density profiles on massive star cluster formation in giant molecular clouds. *MNRAS* **502**, 6157 (2021).
7. **Chen, Y.** & Ma, B.-Q. Novel pre-burst stage of gamma-ray bursts from machine learning. *JHEAp* **32**, 78 (2021).

Scholarships and Awards

- **Rackham Conference Travel Grant** 2023
- **Rackham International Student Fellowship** 2021
- **Weiming Physics Scholarship** 2020
- **Outstanding Graduate** 2020
- **First Prize & Best speaker**, Xingcheng Forum 2019

- **Huabao Funding for Undergraduate Research Program** 2018
- **National Scholarship** 2018
- **Pacemaker to Merit Student** 2018
- **Outstanding Award & SIAM Award**, Mathematical Contest in Modeling 2018
- **Gold Medal**, Chinese Physics Olympiad 2015

Talks

- **MODEST-23**, Northwestern University Evanston, IL, US
Modeling the kinematics of globular cluster systems. 2023
- **Great Lakes Clusters and Streams 2023**, University of Michigan Ann Arbor, MI, US
Modeling the kinematics of globular cluster systems. 2023
- **Graduate lunch talk**, University of Michigan Ann Arbor, MI, US
Modeling the kinematics of globular cluster in cosmological contexts. 2022
- **Seminar for visiting students**, Peking University Beijing, China
Evolution of giant molecular clouds. 2019
- **Xingcheng Forum**, Peking University Beijing, China
Pre-burst stage of gamma-ray bursts. 2019
- **Seminar**, Fudan University Shanghai, China
Light speed variation from gamma-ray bursts. 2019

Service

Professional service

- **Referee:** *ApJ* (1) and *MNRAS* (1)
- **Local organizing committee chair:** Great Lakes Clusters and Streams 2023 2023

University service

- **Organizer:** astrocoffee journal club 2022 – Current
- **Organizer:** preliminary examination preparation club 2022 & 2023
- **Department bread baker** 2021 & 2022
- **Graduate student instructor:** ASTRO 104, 106, and 115 2021