

Yingtian “Bill” Chen

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Education

- **University of Michigan Department of Astronomy** | Ann Arbor, US 2020 – 2026
M.S. and Ph.D. candidate in Astronomy and Astrophysics
- **Peking University School of Physics** | Beijing, China 2016 – 2020
B.S. in Physics (with honours)

Experience

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

Publications

- **9 publications in total:** citations > 90, h-index = 6
- **7 publications as first author:** citations > 90, h-index = 6

Publications as first author

1. **Chen**[✉], M. Valluri, Gnedin, & N. Ash (2024) “Improved particle spray algorithm for modeling globular cluster streams”, *accepted for publication in ApJS*.
2. **Chen**[✉] & Gnedin (2024) “Galaxy assembly revealed by globular clusters”, *OJAp* **7**, 23.
3. **Chen**[✉] & Gnedin (2024) “Catalogue of model star clusters in the Milky Way and M31 galaxies”, *MNRAS* **527**, 3692.
4. **Chen**[✉] & Gnedin (2023) “Formation of globular clusters in dwarf galaxies of the Local Group”, *MNRAS* **522**, 5638.
5. **Chen**[✉] & Gnedin (2022) “Modeling the kinematics of globular cluster systems”, *MNRAS* **514**, 4736.
6. **Chen**, Li[✉], & M. Vogelsberger (2021) “Effects of initial density profiles on massive star cluster formation in giant molecular clouds”, *MNRAS* **502**, 6157.
7. **Chen** & Ma[✉] (2021) “Novel pre-burst stage of gamma-ray bursts from machine learning”, *JHEAp* **32**, 78.

Other publications

8. Ash[✉], Valluri, **Chen**, & Bell (2024) “Stellar bars form dark matter counterparts in TNG50”, *accepted for publication in ApJ*.
9. Pearson[✉], Bonaca, **Chen**, & Gnedin (2024) “Forecasting the population of globular cluster streams in Milky Way-type galaxies”, *ApJ* **976**, 54.

Honours and Awards

- **Rackham Conference Travel Grant** 2023 & 2024
- **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

▪ Poster & flash talk , <i>Dwarf Galaxies, Star Clusters, and Streams in the LSST Era</i> , University of Chicago Chicago, US	2024
▪ Seminar , Peking University, Tsinghua University, Shanghai Normal University, Shanghai Astronomical Observatory, Shanghai Jiao Tong University, Purple Mountain Observatory, Nanjing University, Zhejiang University Beijing/Shanghai/Nanjing/Hangzhou, China	2024
▪ Talk , <i>Astronomy graduate student lunch talk series</i> , University of Michigan Ann Arbor, US	2021 – 2024
▪ Invited talk , <i>Galaxy formation group meeting</i> , Center for Computational Astrophysics, Flatiron Institute New York, US	2024
▪ Invited talk , University of Chicago Remote	2024
▪ Invited talk , <i>SMWLX Star Clusters Working Group meeting</i> Remote	2023
▪ Conference talk , <i>MODEST-23</i> , Northwestern University Evanston, US	2023
▪ Conference talk , <i>Great Lakes Clusters and Streams</i> , University of Michigan Ann Arbor, US	2023
▪ Talk , <i>Seminar for undergraduate students</i> , Peking University Beijing, China	2019
▪ Talk , <i>Xingcheng Forum</i> , Peking University Beijing, China	2019
▪ Talk , <i>Seminar for theoretical physics</i> , Fudan University Shanghai, China	2019

Service

Professional service

▪ Referee : <i>ApJ</i> and <i>MNRAS</i>	Since 2023
▪ Session co-chair : <i>Dwarf Galaxies, Star Clusters, and Streams in the LSST Era</i>	2024
▪ Local organizing committee chair : <i>Great Lakes Clusters and Streams</i>	2023
▪ Code developer : <i>gala</i> , <i>galax</i> , and <i>galpy</i>	since 2024
▪ Organizer : University of Michigan Stellar Halos Group meeting	since 2024

University service

▪ Organizer : Astronomy graduate student lunch talks	2024 – 2025
▪ Organizer : Astrocoffee journal club	2022 – 2025
▪ Chair : University of Michigan Chinese astronomers networking group	Since 2022
▪ Graduate student instructor : ASTRO 104, 106, and 115	2021 & 2024
▪ Organizer : Preliminary examination preparation club	2022 – 2023
▪ Department bread baker	2021 – 2022