

Yingtian “Bill” Chen

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Version: October 2024

Education

- **University of Michigan Department of Astronomy** Ann Arbor, MI, US
M.S. and Ph.D. candidate in Astronomy and Astrophysics Since 2020
- **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

- **9 publications in total:** citations > 80, h-index = 6
- **7 publications as first author:** citations > 80, h-index = 6

First-author publications

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

Other publications

8. S. Pearson*, A. Bonaca, **Y. Chen**, & O. Y. Gnedin (2024) “Forecasting the population of globular cluster streams in Milky Way-type galaxies”, *accepted for publication in ApJ*.
9. N. Ash*, M. Valluri, **Y. Chen**, & E. F. Bell (2024) “Stellar bars form dark matter counterparts in TNG50”, *submitted to AAS journals*.

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

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| ▪ 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

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| ▪ Poster & flash talk , <i>Dwarf Galaxies, Star Clusters, and Streams in the LSST Era</i> , University of Chicago, Chicago, IL, US | 2024 |
| ▪ Seminar , Zhejiang University, Hangzhou, Zhejiang, China | 2024 |
| ▪ Seminar , Nanjing University, Nanjing, Jiangsu, China | 2024 |
| ▪ Seminar , Purple Mountain Observatory, Nanjing, Jiangsu, China | 2024 |
| ▪ Seminar , Shanghai Normal University, Shanghai, China | 2024 |
| ▪ Seminar , Shanghai Astronomical Observatory, Shanghai, China | 2024 |
| ▪ Seminar , Shanghai Jiao Tong University, Shanghai, China | 2024 |
| ▪ Seminar , Peking University, Beijing, China | 2024 |
| ▪ Seminar , Tsinghua University, Beijing, China | 2024 |
| ▪ Lunch talk , <i>Astronomy graduate student lunch talk series</i> , University of Michigan, Ann Arbor, MI, US | 2021 – 2024 |
| ▪ Invited talk , <i>Galaxy formation group meeting</i> , Center for Computational Astrophysics, Flatiron Institute, New York, NY, US | 2024 |
| ▪ Invited talk , University of Chicago, remote | 2024 |
| ▪ Invited talk , <i>SMWLVS Star Clusters Working Group meeting</i> , remote | 2023 |
| ▪ Conference talk , <i>MODEST-23</i> , Northwestern University, Evanston, IL, US | 2023 |
| ▪ Conference talk , <i>Great Lakes Clusters and Streams</i> , University of Michigan, Ann Arbor, MI, 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

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| ▪ 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 contributor : <i>gala</i> , <i>galax</i> , and <i>galpy</i> | since 2024 |
| ▪ Organizer : 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