

# Yingtian “Bill” Chen

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

### Publications as first author

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

### Other publications

8. Ash<sup>✉</sup>, Valluri, **Chen**, & Bell (2024) “Stellar bars form dark matter counterparts in TNG50”, *accepted for publication in ApJ*.
9. Pearson<sup>✉</sup>, 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

▪ <b>Huabao Funding for Undergraduate Research Program</b>	2018
▪ <b>National Scholarship</b>	2018
▪ <b>Pacemaker to Merit Student</b>	2018
▪ <b>Outstanding Award &amp; SIAM Award</b> , Mathematical Contest in Modeling	2018
▪ <b>Gold Medal</b> , Chinese Physics Olympiad	2015

## Talks

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

## Service

### Professional service

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