

# Yingtian “Bill” Chen

## 陈颖天 / 陳穎天

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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**<sup>✉</sup>, Valluri, Gnedin, & 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>, & 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 (未名物理学子)** 2020
- **Outstanding Graduate (北京市普通高等学校优秀毕业生)** 2020
- **First Prize & Best speaker**, Xingcheng Forum (兴诚本科生学术论坛) 2019
- **Huabao Funding for Undergraduate Research Program (本科生科研华宝基金)** 2018

▪ <b>National Scholarship</b> (国家奖学金)	2018
▪ <b>Pacemaker to Merit Student</b> (三好学生标兵)	2018
▪ <b>Outstanding Award &amp; SIAM Award</b> , Mathematical Contest in Modeling	2018
▪ <b>Gold Medal</b> , Chinese Physics Olympiad (全国中学生物理竞赛)	2015

## Talks

▪ <b>Poster &amp; flash talk</b> , <i>DGSCS 2024</i> , University of Chicago   Chicago, US	2024
▪ <b>Seminar</b> , 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
▪ <b>Talk</b> , <i>Astronomy graduate student lunch talk series</i> , University of Michigan   Ann Arbor, US	2021 – 2024
▪ <b>Invited talk</b> , <i>Galaxy formation group meeting</i> , CCA, Flatiron Institute   New York, US	2024
▪ <b>Invited talk</b> , University of Chicago   Remote	2024
▪ <b>Invited talk</b> , <i>SMWLX Star Clusters Working Group meeting</i>   Remote	2023
▪ <b>Conference talk</b> , <i>MODEST-23</i> , Northwestern University   Evanston, US	2023
▪ <b>Conference talk</b> , <i>Great Lakes Clusters and Streams</i> , University of Michigan   Ann Arbor, 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>DGSCS 2024</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

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