

# Yingtian “Bill” Chen

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## Education

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- **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

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

## Publications

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70+ first-author citations, h-index = 5

### Publications as first author

1. **Y. Chen\***, M. Valluri, O. Y. Gnedin, & N. Ash (2024) “Improved particle spray algorithm for star cluster streams”, *in prep.*
2. **Y. Chen\*** & O. Y. Gnedin (2024) “Galaxy assembly revealed by globular clusters”, *OJA* **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.

### Publications as N-th author

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

## Honours and Awards

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▪ 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

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▪ DGSCS 2024, University of Chicago, Chicago, IL, US	2024
▪ Invited seminar, Zhejiang University, Hangzhou, Zhejiang, China	2024
▪ Invited seminar, Nanjing University, Nanjing, Jiangsu, China	2024
▪ Invited seminar, Purple Mountain Observatory, Nanjing, Jiangsu, China	2024
▪ Invited seminar, Shanghai Normal University, Shanghai, China	2024
▪ Invited seminar, Shanghai Astronomical Observatory, Shanghai, China	2024
▪ Invited seminar, Shanghai Jiao Tong University, Shanghai, China	2024
▪ Invited seminar, Peking University, Beijing, China	2024
▪ Invited seminar, Tsinghua University, Beijing, China	2024
▪ Astronomy grad lunch talk series, University of Michigan, Ann Arbor, MI, US	2021 – 2024
▪ Galaxy formation group meeting, CCA, New York, NY, US	2024
▪ Invited talk, University of Chicago, remote	2024
▪ Invited talk, SMWLV Star Clusters Working Group meeting, remote	2023
▪ MODEST-23, Northwestern University, Evanston, IL, US	2023
▪ Great Lakes Clusters and Streams, University of Michigan, Ann Arbor, MI, US	2023
▪ Seminar for undergraduate students, Peking University, Beijing, China	2019
▪ Xingcheng Forum, Peking University, Beijing, China	2019
▪ Seminar, Fudan University, Shanghai, China	2019

## Service

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### Professional service

- **Referee:** *ApJ* (1) and *MNRAS* (1) Since 2023
- **Session co-chair:** DGSCS 2024 2024
- **Local organizing committee chair:** Great Lakes Clusters and Streams 2023 2023

### University service

- **Organizer:** astrocoffee journal club Since 2022
- **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