Yingtian "Bill" Chen

陈颖天 · 陳穎天

Education

University of Michigan Department of Astronomy | Ann Arbor, US
 Ph.D. candidate in Astronomy and Astrophysics
 M.S. 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

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Publications

• 10 publications in total: citations > 110, h-index = 7

• 8 publications as first author: citations > 100, h-index = 6

Publications as first author

- 1. Chen, Li, & Gnedin (2025) Stellar streams reveal the mass loss of globular clusters, ApJL 980, L18.
- 2. **Chen**[⊠], Valluri, Gnedin, & Ash (2025) *Improved particle spray algorithm for modeling globular cluster streams*, ApJS **276**, 32.
- 3. **Chen**[™] & Gnedin (2024) *Galaxy assembly revealed by globular clusters*, OJAp **7**, 23.
- 4. **Chen**[™] & Gnedin (2024) *Catalogue of model star clusters in the Milky Way and M31 galaxies*, MNRAS **527**, 3692.
- 5. **Chen**[⊠] & Gnedin (2023) *Formation of globular clusters in dwarf galaxies of the Local Group*, MNRAS **522**, 5638.
- 6. Chen[™] & Gnedin (2022) Modeling the kinematics of globular cluster systems, MNRAS 514, 4736.
- 7. **Chen**, Li[⊠], & Vogelsberger (2021) *Effects of initial density profiles on massive star cluster formation in giant molecular clouds*, MNRAS **502**, 6157.
- 8. Chen & Ma[⊠] (2021) Novel pre-burst stage of gamma-ray bursts from machine learning, JHEAp 32, 78.

Other publications

- 9. Ash[™], Valluri, Chen, & Bell (2024) Stellar bars form dark matter counterparts in TNG50, ApJ 976, 189.
- 10. 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 (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)	
• National Scholarship (国家奖学金)	2018
• Pacemaker to Merit Student (三好学生标兵)	2018
Outstanding Award & SIAM Award, Mathematical Contest in Modeling	2018
• Gold Medal, Chinese Physics Olympiad (全国中学生物理竞赛)	2015
Talks	
• Invited talk, DESI MWS telecon Remote	2024
Poster & flash talk, DGSCS 2024, UChicago Chicago, US	2024
 Seminar, PKU & THU & SHNU & SHAO & SJTU & PMO & NJU & ZJU Beijing & Shanghai & Nanjing & Hangzhou, China 	2024
Talk, Astronomy graduate student lunch talk series, UM Ann Arbor, US	2021 – 2024
• Invited talk, Galaxy formation group meeting, CCA, Flatiron Institute New York, US	2024
Invited talk, UChicago Remote	2024
• Invited talk, SMWLV Star Clusters Working Group meeting Remote	2023
Conference talk, MODEST-23, NU Evanston, US	2023
• Conference talk, Great Lakes Clusters and Streams, UM Ann Arbor, US	2023
Talk, Seminar for undergraduate students, PKU Beijing, China	2019
Talk, Xingcheng Forum, PKU Beijing, China	2019
Talk, Seminar for theoretical physics, FDU Shanghai, China	2019
Service	
Professional service	
• Referee: ApJ and MNRAS	Since 2023
Session co-chair: DGSCS 2024	2024
Local organizing committee chair: Great Lakes Clusters and Streams	2023
Code developer: ART, gala, galax, and galpy	Since 2024
Organizer: UM Stellar Halos Group meeting	Since 2024
University service	
Organizer: Astronomy graduate student lunch talks	2024 – 2025
Organizer: Astrocoffee journal club	2022 – 2025
Chair: UM 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

Skills

- Programming Languages: C/C++, Python, Latex, MATLAB, HTML/CSS...
- Software/packages: ART, AREPO, GADGET, MPI, AGAMA, multiprocessing, NumPy, Matplotlib, SciPy, scikit-learn, PyTorch, Astropy, yt, gala, galax, galpy, Git, Bootstrap...
- Languages: Mandarin Chinese (native), English (fluent)

References

- Dr. Oleg Y. Gnedin, Professor, UM; ognedin(at)umich.edu
- Dr. Monica Valluri, Research Professor, UM; mvalluri(at)umich.edu
- Dr. Hui Li (李辉), Assistant Professor, THU; hliastro(at)tsinghua.edu.cn