Chong-Chong He

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EDUCATION & EMPLOYMENT

Supervisor: Mark Krumholz Ph.D. (Astronomy), University of Maryland College Park 2023 Advisor: Massimo Ricotti Thesis: Multiscale Radiation-MHD Simulations of Compact Star Clusters B.S. (Physics, GPA: 3.92/4) WITH HIGHEST HONOR, Jilin University, China 2016 Visiting Honors Student at Georgia Institute of Technology 2015 RESEARCH GRANTS AND FELLOWSHIPS 2024 Star Formation and Feedback in a Turbulent Interstellar Medium 2024 National Computational Merit Allocation Scheme, NCI Australia Allocation: 16 MSU CPU + 17.6 MSU GPU Chief Investigator 2024 SummitPLUS, National Center for Computational Sciences, Oak Ridge National Laboratory, USA 2021 – 2024 Allocation: 115k node hours (=25 MSU) Chief Investigator Multiscale RMHD Simulations of Compact Star Clusters and the Formation of Intermediate-Mass Black Holes 2021 – 2024 Future Investigators in NASA Earth and Space Science and Technology (FINESST, formerly known as NESSF) 2023 US\$ 135,000 Future Investigators in NASA Earth and Space Science and Technology (FINESST, formerly known as NESSF) 2021 Jacob K. Goldhaber Travel Grant, University of Maryland (declined) 2021 2021 US\$ 15,000 2021 2021/1 2021/1 Discertation Talk, 241st	Postdoctoral Fellow, RSAA, The Australian National University	2023 -
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Invited the Anton Pannekoek Institute for Astronomy University of Amsterdam	Invited the Anton Pannekoek Institute for Astronomy University of Amsterdam	2021

Invited, the Emmy Noether Research Group on Massive Star Formation | University of Tübingen

2020

TEACHING/MENTORING EXPERIENCE

Undergraduate Research Mentor	2021 - 2022
Graduate Teaching Assistant, University of Maryland	2016 - 2021

- Check my teaching portfolio
- Courses taught include Introduction to Astronomy, Galaxies, Cosmology, Origin of the Universe, Stars and Stellar Systems, Solar System Astronomy, and Life in the Universe.
- Responsibilities include leading classroom discussions and labs, preparing homework and exam solutions, grading, and holding office hours to provide additional guidance to students.

SKILLS

Professional	Experienced in MPI Parallel Programming, Hydrodynamics Simulations and Data Analysis
Programming	Python, Julia, LaTeX (advanced); C, Fortran, Mathematica, MATLAB (proficient); C++, HTML/CSS,
	JavaScript (basic)
Data Science	Knowledge of Machine Learning, including Deep Learning and Neural Networks (Coursera certification)

PROFESSIONAL SERVICES

Referee: MNRAS	2020 -
Member: American Astronomical Society	2018 -

SELECTED PRESS COVERAGE

2020 Amsterdam Science, "Cosmic Flashlights in the Early Galaxies", Retrieved on Oct 6, 2020 from this link (page 20).

SELECTED OUTREACH

Computational Science Blog [Link] A blogging site I created where I write articles on computational astrophysics and machine learning for with college or high school background	2022 – or the general public
The Great Conjunction 2020 [Link] Produced animations for the outreach program by the Astrophysics Group at the University of Exeter. and Video2 (retrieved 2020-12-8). Source code.	2020 Video links: Video1
GRAD-MAP Python Bootcamp [Link] Lecture Assistant for the GRAD-MAP Python Bootcamp, University of Maryland	2018 - 2020

List of Publications: Chong-Chong He

Check NASA/ADS for a list of full publications or refereed/under-review publications, or check my Google Scholar profile.

PAPERS UNDER REVIEW

¹**C.-C. He** and M. Ricotti, "Formation of Large Circumstellar Discs in Multi-scale, ideal-MHD Simulations of Magnetically Critical Pre-stellar Cores", arXiv preprint: 2403.09779 (2024).

²C.-C. He, B. D. Wibking, and M. R. Krumholz, "A novel numerical method for mixed-frame multigroup radiation-hydrodynamics with gpu acceleration implemented in the quokka code", arXiv preprint: 2407.18304 (2024).

FIRST-AUTHOR REFEREED PUBLICATIONS (124 CITATIONS)

Including first-author papers by students I (co-)mentored.

¹C.-C. He, B. D. Wibking, and M. R. Krumholz, "An asymptotically correct implicit-explicit time integration scheme for finite volume radiation-hydrodynamics", MNRAS **531**, 1228–1242 (2024).

²C.-C. He and M. Ricotti, "Massive pre-stellar cores in radiation-magneto-turbulent simulations of molecular clouds", MNRAS **522**, 5374–5392 (2023).

³**R.** Hix, C.-C. He, and M. Ricotti, "Bimodal star formation in simulations of strongly magnetized giant molecular clouds", MNRAS 522, 6203–6216 (2023).

⁴C.-C. He, "A Fast and Accurate Analytic Method of Calculating Galaxy Two-point Correlation Functions", ApJ **921**, 59, 59 (2021).

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Explaination of my roles: ¹I wrote the code DiskAnisotropy which is a core module of the code presented in this paper.

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SELECTED CONFERENCE PROCEEDINGS/ABSTRACTS

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