CHONG-CHONG HE

UMD-Astronomy, 1113 PSC Bldg. 415, College Park, MD 20742
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EDUCATION

University of Maryland
Ph.D. Astronomy *2018 – Present*
Thesis (proposed): Simulating Compact Star Clusters and Growth of the Seed Black Holes in the First Galaxies
M.S. Astronomy *2016 – 2018*
Thesis: Simulating Star Clusters Across Cosmic Time

Jilin University *2012 – 2016*
B.S. Physics, with Highest Honor
Thesis: Accretion Disk Geometry in Low-Mass X-Ray Binaries

Georgia Institute of Technology *1/2015 – 7/2015*
Visiting Honors Student Program, Language and Physics

HONORS & AWARDS

China Youth Science and Technology Innovation Award, 2016

Dean's Honored Graduates, Jilin University, 2016
The highest honor awarded to graduating seniors in the College of Physics

Tang-Ao Qing Supreme Award for Excellence in Research & Practice, 2016

China Scholarship Council Scholarship for Overseas Study, 2014
Awarded to the top 1% in the College of Physics, Jilin University

PUBLICATIONS

He, C.-C., Ricotti, M., & Geen, S., "Simulating Star Clusters Across Cosmic Time: II. Fraction of Ionizing Photons Escaping from Molecular Clouds", submitted to *Monthly Notices of the Royal Astronomical Society*.

He, C.-C., Ricotti, M., & Geen, S. 2019, "Simulating star clusters across cosmic time - I. Initial mass function, star formation rates, and efficiencies", *Monthly Notices of the Royal Astronomical Society*, 489, 1880-1898.

He, C.-C. & Keek, L. 2016, "Anisotropy of X-Ray Bursts from Neutron Stars with Concave Accretion Disks", *The Astrophysical Journal*, 819, 47.

SUCCESSFUL PROPOSALS

MARCC/Bluecrab Supercomputer, Q1 2018, 200 kSU monthly allocation

TEACHING EXPERIENCE

Teaching Assistant *08/2016 – 05/2018*
University of Maryland

- Courses: ASTR 100, ASTR 420, ASTR 330, ASTR 300, ASTR 340
- Led 2 discussion sections per week (ASTR 100, 08/2017 – 12/2017)
- Graded worksheets, homework, and exams.
- Held office hours to provide additional guidance to students

OUTREACH

Maryland Days, *2017, 2019*

GradMap, Python Bootcamp, teaching assistant

COMPUTER SKILLS

Programming and software fluency in *Python, C/C++, Fortran, LaTeX*

Experience with openMP and MPI parallel programming

Experience with *Mathematica, MATLAB, HTML/CSS*