CHONG-CHONG HE

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

(+1) 240-413-9772 ⋄ chongchong@astro.umd.edu

EDUCATION

University of Maryland

M.S. Astronomy   *2016 – 2018*

 Research Topic: Simulating Star Clusters Across Cosmic Time

Ph.D. Astronomy   *2018 – Present*

 Thesis Topic (Planed): Simulating Compact Star Clusters and Growth of the Seed Black Holes in the First Galaxies

Jilin University   *2012 – 2016*

B.S. Physics, with Highest Honor

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

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*