

Xi Meng

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Education

Sept.2017 – present, PhD Candidate
Sept.2017 – Aug 2019, MS
Sept.2013 – Jul.2017, BS

Astrophysics, University of Michigan
Astrophysics, University of Michigan
Astronomy, Peking University

Awards

2021 Barbour Centennial Award, University of Michigan
2018 Rackham International Students Fellowship, University of Michigan
2016, 2014 Lin-Qiao Scholarship, Peking University, for excellent speakers in undergraduate astronomy forum
2016 Guanghaihua Scholarship, Peking University, for excellent academic performance
2014 NAOC Scholarship, National Astronomical Observatories, CAS, for outstanding academic performance

Publications

Meng, Xi; Gnedin, Oleg Y., 2022 “Tidal Disruption of Star Clusters in Galaxy Formation Simulations”, submitted to MNRAS, arXiv: 2201.09826
Veiga, Maria Han; **Meng, Xi**; Gnedin, Oleg Y.; Gnedin, Nickolay Y.; Huan, Xun, 2021 “Reconstruction of the Density Power Spectrum from Quasar Spectra using Machine Learning”, arXiv: 2107.09082
Meng, Xi; Gnedin, Oleg Y., 2021 “Evolution of Disc Thickness in High-Redshift Galaxies”, MNRAS, 502, 1433
Meng, Xi; Gnedin, Oleg Y., 2020 “Origin of Giant Stellar Clumps in High-Redshift Galaxies”, MNRAS, 494, 1263
Meng, Xi; Gnedin, Oleg Y.; Li, Hui, 2019 “Structure of High Redshift Galaxies in Cosmological Simulations”, MNRAS, 486, 1574
Li, Hui; Gnedin, Oleg Y.; Gnedin, Nickolay Y.; **Meng, Xi**; Semenov, Vadim; Kravtsov, Andrey, 2017, “Star Cluster Formation in Cosmological Simulations. I. Properties of Young Clusters”, ApJ, 834, 69

Research Experience

Cosmological simulation: 2016—now Advisor: Prof. Oleg Gnedin, University of Michigan, on structure of high redshift galaxies in cosmological simulations;
2015 Advisor: Prof. Oleg Gnedin, University of Michigan, on the escape fraction of ionizing photons during the epoch of reionization using cosmological simulation.
Pulsars: 2015—2016 Advisor: Prof. Kejia Lee, Peking University, on measuring the scattering measure of radio pulsars using Tikhonov regularization.
Star formation: 2013—2014 Advisor: Prof. Yuefang Wu, Peking University, on the evolution of circumstellar status of Herbig Ae/Be stars.

Programming Skills

C, C++, python

Teaching and Outreach

Astro 102, 105, 106, 107, 115, 142 GSI
Vice president of Youth Astronomy Society, PKU

University of Michigan
June, 2014 – May, 2015