

# Hui Li

CONTACT INFORMATION	MIT Kavli Institute for Astrophysics and Space Research 77 Massachusetts Ave. 37-241 Cambridge, MA 02139	Tel: +1 734-277-1186 Email: hliastro@mit.edu lihui870222@gmail.com
RESEARCH INTERESTS	Anisotropy Thermal Conduction and Turbulence in Magnetized IntraCluster Medium Direct Simulation of Star Cluster Formation and Evolution Metallicity Distribution of Globular Cluster in Different Types Galaxies Cosmic Ray Acceleration and Propagation in the Galaxy The Gamma-Ray Emission of Supernova Remnants and Pulsar Wind Nebulae	
EMPLOYMENT	Postdoctoral Associate, MIT Kavli Institute	Oct. 2017-current
EDUCATION	<b>PhD, Astronomy</b> , University of Michigan Advisor: Prof. Oleg Gnedin	Aug. 2017
	<b>M.A. Statistics</b> , University of Michigan	2016
	<b>M.S. Astrophysics</b> , Nanjing University	2012
	<b>B.S. Astronomy</b> , Nanjing University	2009
SKILLS	C, C++, Fortran, Python, IDL MPI, OpenMP, Hadoop, SQL R, SAS, yt, Mathematica, L <sup>A</sup> T <sub>E</sub> X	
PUBLICATIONS	<b>Over 240 citations with h-index=10 in ADS database</b> First Author <b>Li, Hui</b> ; Gnedin, Oleg, “Star Cluster Formation in Cosmological Simulations. III. Dynamical and Chemical Evolution”, in prep. <b>Li, Hui</b> ; Gnedin, Oleg; Gnedin, Nickolay, “Star Cluster Formation in Cosmological Simulations. II. Effects of Star Formation Efficiency and Stellar Feedback”, submitted to ApJ <b>Li, Hui</b> ; Gnedin, Oleg; Gnedin, Nickolay; Meng, Xi; Semenov, Vadim; Kravtsov, Andrey, “Star cluster formation in cosmological simulations. I. Properties of young clusters”, 2017, ApJ 834, 69 <b>Li, Hui</b> ; Gnedin, Oleg, “Modeling The Formation of Globular Cluster Systems in The Virgo Cluster”, 2014, ApJ, 796, 10 <b>Li, Hui</b> ; Chen, Yang, “ $\gamma$ -rays from Molecular Clouds Illuminated by Accumulated Diffusive Protons. II: Interacting Supernova Remnants”, 2012, MNRAS, 421, 935 <b>Li, Hui</b> ; Liu, Siming; Chen, Yang, “Derivation of the Electron Distribution in SNR RX J1713.7-3946 via a Spectral Inversion Method”, 2011, ApJ Letters, 742, L10 <b>Li, Hui</b> ; Chen, Yang, “ $\gamma$ -rays from Molecular Clouds Illuminated by Accumulated Diffusive Protons from Supernova Remnant W28”, 2010, MNRAS Letters, 409, 1, L35-L38 <b>Li, Hui</b> ; Chen, Yang; Zhang, Li, “Lepto-Hadronic Origin of $\gamma$ -rays from the G54.1+0.3 Pulsar Wind Nebula”, 2010, MNRAS Letters, 408, 1, L80-L84	

Co-Author

Kim, Ji-hoon; et al., “The AGORA High-Resolution Galaxy Simulations Comparison Project. II: Isolated Disk Test”, ApJ accepted

Zhang, Xiao; **Li, Hui**; Chen, Yang, “The  $\gamma$ -ray emission produced by protons that escape from supernova remnant G349.7+0.2”, 2016, RAA, 16, 10

Zhang, Xiao; Chen, Yang; **Li, Hui**; Zhou, Xin, “On the hadronic  $\gamma$ -ray emission from Tycho’s supernova remnant”, 2013, MNRAS, 429, 25

Torres, Diego F.; **Li, Hui**; Chen, Yang; Cillis, Analia; Caliendo, Andrea G.; Rodriguez-Marrero, Ana Y., “Cosmic Rays in the Surroundings of SNR G35.6-0.4”, 2011, MNRAS, 417, 3072

PROFESSIONAL Referee of ApJ, MNRAS, RAA  
ACTIVITIES

Lead Guest Editor for special issues in “Advance in Astronomy”

“Galaxy group seminar in UMass Amherst”, Amherst, March 2018, **Invited** Talk.

“Harvard-Heidelberg Star Formation 2017”, Cambridge, MA, Nov. 2017.

“Galaxy Seminar in the Center for Computational Astrophysics (CCA)”, New York, Sep. 2017, **Invited** Talk.

“Forging connection: From Nuclei to the Cosmic Web”, Lansing, Michigan State University, June 2017

“Star Cluster Formation: Mapping the First Few Myr’s”, Madrid, Spain, June 2017

Sexten Workshop “Globular Cluster Systems and their host Galaxies”, Sexten, Italy, June 2017, **Invited** Talk

5<sup>th</sup> AGORA workshop, Santa Cruz, Aug. 2016

Great Lake Cosmology Workshop, Jun. 2016, Contributed Talk

Dynamics Group Meeting, University of Toronto, Jun 2016

Cluster Group Meeting, University of Chicago, May 2016, **Invited** Talk

GMT Community Science Meeting, Pacific Grove, Oct. 2015, Poster

Santa Cruz Galaxy Workshop, CA, Aug. 2015, Contributed Talk

NJU Colloquium, Nanjing, China, Oct. 2014, **Invited** Talk

KICP Computational Cosmology Workshop, Chicago, Aug. 2013, Contributed Talk

7<sup>th</sup> joint meeting of Chinese physicists worldwide (OCPA7), Kaohsiung, Taiwan, Aug. 2011, **Invited** Talk

Multi-Messenger Astronomy of Cosmic Rays, KIAA-PKU, Beijing, Apr. 2011, Contributed Talk

Annual Conference of Chinese Astronomical Society, Nanning, China, Nov. 2010, Contributed Talk

HONORS & AWARDS	Rackham One Term Dissertation Fellowship 2016	
	Rackham Conference Travel Grants, 2015, 2016, 2017	
	John G. Kirk Fellowship, 2014	
	Ralph P. Baldwin Fellowship in Astronomy, 2012	
	Excellent Master Thesis in Jiangsu Province, 2012	
	The First Award of Guanghai Scholarship in Nanjing University, 2010-2011	
TEACHING & OUTREACH	Excellent Graduate Student of Nanjing University, 2009-2010	
	Teaching Assistant, ASTRO 102, “Stars, Galaxies, and the Universe”	Winter 2013
	Teaching Assistant, ASTRO 104 & 106, “Alien Skies”	Fall 2013
	Graduate Employees’ Organization (GEO) Representative	2012-2013