

JONGSUK HONG

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EMPLOYMENT Kavli Postdoctoral Fellow, KIAA-PKU Oct. 2016 - *present*
Postdoctoral Research Fellow, Indiana University Oct. 2013 - Sep. 2016

EDUCATION *Ph.D. in Astronomy*, Seoul National University, Korea Aug. 2013
Advisor: Hyung Mok Lee
Thesis: “Gravitational N -body simulations with special hardwares and astrophysical applications”
B.S. in Physics, Seoul National University, Korea Feb. 2006

RESEARCH INTERESTS **Understanding of dense stellar systems**
Dynamical evolution of globular clusters

- Multiple stellar populations
- Initial rotations

Modeling of dense stellar systems

- Globular cluster with an intermediate mass black holes
- Initial distribution of primordial binaries
- Nuclear star clusters

Astrophysical objects from dense stellar systems

- Black hole binaries as gravitational wave sources
- Blue straggler stars, cataclysmic variables, X-ray binaries

Comparative studies with observations for star clusters

RESEARCH SKILLS *Numerical simulation codes*

- NBODY4, NBODY6, NBODY6-GPU, NBODY6++
- MOCCA, ϕ -GRAPE, ϕ -GPU, STARLAB

Program language & Package

- proficient in Fortran, IDL, \LaTeX
- working knowledge of R, C/C++

Server build-up & Management

- GPU servers, clusters, GRAPE servers

MEMBERSHIPS American Astronomical Society 2013 - *present*
Korean Astronomical Society 2007 - *present*

AWARDS & GRANTS China Postdoc Science Fund 2017
American Astronomical Society – International Travel Grant 2014, 2016
Seoul Scholarship (Seoul Foundation, Korea) 2008 - 2009

PROFESSIONAL SERVICES Journal reviewer – ApJ (since 2014), MNRAS (since 2016)