

Nan Li

Postdoctoral Researcher at The University of Chicago & Argonne National Laboratory

Personal Info



Chinese
Male



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Contacts

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Languages

Chinese : Native
English : Fluency

Programming

♥ Python, C/C++
Cython, OpenCL
OpenMP, MPI
IDL, Bash Shell
Fortran, Matlab

Education

2009–2013 **Ph.D. in Astrophysics, May 2013**

Beijing, China

National Astronomical Observatory of China

Thesis : *Gravitational Lensing and Cosmology*

Supervisors : Prof. Liang Gao and Prof. Shude Mao.

2006–2009 **M.A. in Astrophysics, June 2009**

Beijing, China

National Astronomical Observatory of China

Thesis : *Cusp-core Problem and Strong Gravitational Lensing*

Supervisor : Prof. Da-Ming Chen.

2001–2006 **B.S. in Engineering Mechanics, June 2006**

Beijing, China

Beijing University of Aeronautics and Astronautics

Thesis : *Structure Stability of the Connections of Step Objects*

Supervisor : Prof. Yu-Feng Xing.

Experience

2013–Now **Argonne National Lab & The University of Chicago**

Chicago, IL, USA

Working with Prof. Salman Habib, Prof. Mike Gladders and Prof. Katrin Heitmann on simulations of gravitational lensing.

Interests

- Simulations of Gravitational lensing.
- Gravitational lensing modeling.
- Automatically lens finding.
- Applications of machine learning in Cosmology.

Publications

- **Cusp-Core problem and strong gravitational lensing**
Li, Nan; Da-Ming Chen, 2009, RAA, Vol. 9, No. 11, 1173–1184
- **Effects of supermassive binary blackholes on gravitational lenses**
Li, Nan; Mao, Shude; Gao, Liang; Loeb, Abraham and di Stefano, R., 2012, MNRAS, Vol. 419, 2424–2432
- **Measuring the mass to light ratio of galaxies with weak lensing**
Li, Nan; Li, Ran; Er, Xinzhong, 2013, RAA, Vol. 13, No. 9, 1041–1051
- **Simulations of Strong Gravitational Lensing**
Li, Nan et al in preparation
- **Arc statistics for SPT Cluster Catalog**
Li, Nan et al in preparation
- **The Gini Coefficient as a Morphological Measurement of Strongly Lensed Galaxies in the Image Plane**
Florian, Michael et al in preparation.
- **The GINI Coefficient as a Tool for Image Family Identification in Strong Lensing Systems with Multiple Images**
Florian, Michael et al in preparation.
- **Galaxy-Galaxy Weak Lensing Measurement from SDSS: (I) Image Processing**
Luo, Wentao et al submitted
- **Large Scale Cosmological Simulations**
Heitmann, Katrin et al published