

Nan Li

Postdoctoral Researcher at Argonne National Lab

Personal Info



Chinese
Male



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Languages

Mandarin : native
English : fluency

Programming

♥ Python, C/C++
IDL, Bash Shell
Cython & Fortran

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 using Super-Computer.
- Machine learning and gravitational lens-finding.
- Hybrid programming with OpenMP and MPI.
- Interfacing python and C/C++.

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 Black Holes 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