

Rui Luo

Curriculum Vitae

Kavli Institute for Astronomy and Astrophysics
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Education

- 2013 - present **PhD candidate**, *Peking University*, Beijing, China.
Supervisor: Dr. Kejia Lee (KIAA-PKU)
2009 - 2013 **B.Sc.**, *Huazhong University of Science and Technology*, Wuhan, China.

Research Interests

- Astronomical: Fast Radio Bursts, Pulsars, Cosmology
Statistical: Bayesian analysis, MCMC, Machine Learning

Awards

- 2013 - 2018 Second Academic Scholarship, Peking University
2016 Kwang-Hua Scholarship, Peking University
2016 Award for Scientific Research, Peking University
2015 Second Prize of Chen Huxiong Scholarship, Peking University
2015 Award for Community or Public Service, Peking University
2014 Merit Graduate Student, Peking University
2013 Annual Scholarship of National Astronomical Observatories, Chinese Academy of Sciences

Publications

First-author papers:

- 1 **Luo, R.**, Lee, K. J., Lorimer, D. R., & Zhang, B., *On the normalised FRB luminosity function*, 2018, [MNRAS](#), **481**, 2320

Contributed papers:

- 4 Yi, S.-X., Cheng, K. S., & **Luo, R.**, *Clumpy jets from black hole-massive star binaries as engines of Fast Radio Bursts*, 2018, *MNRAS*, **submitted**
- 3 Wang, W. Y., Lu, J. G., Zhang, S. B., Chen, X. L., **Luo, R.**, & Xu, R. X., *Pulsar giant pulse: coherent instability near light cylinder*, 2018, *A&A*, **submitted** ([arXiv:1805.00139](https://arxiv.org/abs/1805.00139))

- 2 Wang, W. Y., **Luo R.**, Yue, H., Chen, X. L., Lee, K. J., & Xu, R. X., *FRB 121102: A Starquake-induced Repeater?*, 2018, [ApJ](#), **852**, 140
- 1 Yang, Y.-P., **Luo, R.**, Li, Z., & Zhang, B., *Large Host-galaxy Dispersion Measure of Fast Radio Bursts*, 2017, [ApJ](#), **839**, L25

Conferences & Talks

- 2018 NAOC Graduate Student Seminar, Beijing, China, Apr. 23, 2018
Invited talk: *A Review of Fast Radio Bursts and FRB luminosity function*
- 2017 Radio Astronomy Forum 2017, Pingtang, China, Sep. 24-27, 2017
Poster: *Simulating DM of host galaxies to derive FRB luminosity function*
- 2017 Pulsar Timing Array in China, Beijing, China, May 30-31, 2017
Contributed as LOC member
- 2017 FAST/Future Pulsar Symposium 6, Wuhan, China, Jun. 28-30, 2017
Contributed talk: *Simulating DM of host galaxies to derive FRB luminosity function*
- 2016 Chinese Astronomical Society 2016 Annual Meeting, Wuhan, China, Nov. 1-3, 2016
Contributed talk: *Simulating the dispersion measure of host galaxies*
- 2016 Jing-Guang-Xia Astrophysics Meeting, Xiamen, China, July 21-23, 2016
Contributed talk: *Simulating the dispersion measure of host galaxies*
- 2016 QTT Colloquium Series 2016, Zunyi, China, July 3-4, 2016
Contributed talk: *Simulating the dispersion measure of FRB host galaxies*
- 2016 PKU-XAO Bilateral Meeting, Urumqi, China, Jun. 10-13, 2015
Contributed talk: *Simulating the dispersion measure of FRB host galaxies*
- 2015 Chinese Astronomical Society 2015 Annual Meeting, Beijing, China, Oct. 19-21, 2015
Contributed talk: *Consideration of Research on FRBs*
- 2015 International Pulsar Timing Array 2015 Meeting, Parkes&Leura, Australia, July 19-31, 2015
- 2015 QTT Colloquium Series 2015, Ming'antu, China, July 2-3, 2015
Contributed talk: *Consideration of Research on FRBs*
- 2015 KIAA-SHAO Bilateral Workshop, Beijing, China, May 18-19, 2015
Contributed talk: *Consideration of FRB searching*

Observing Experience

- Aug. 2017 Installation of FRB backend at YNAO 40-m radio telescope and search for FRBs

- Apr. 2016 Instrumentation tests at FAST site before its inauguration.
- Aug. 2015 Installation PSR backend for Miyun 50-m radio telescope and observing pulsars.
- Oct. 2014 Calibration for polarization of 40-m radio telescope in Yunnan Astronomical Observatory and observing pulsars.

Teaching Experience

- 2017 Teaching Assistant of GENERAL PHYSICS for non-physics Schools, Peking University
- 2015 Teaching Assistant of ATOMIC PHYSICS, School of Physics, Peking University

Technical Skills

Programming PYTHON (Proficient), C, C++, FORTRAN, UNIX, L^AT_EX

Softwares MATLAB, MATHEMATICA, QT

Web HTML, MARKDOWN, GIT

Language

English

Professional working proficiency

Chinese

Native or bilingual proficiency

Japanese

Basic words and phrases only