# Rui Luo

*Curriculum Vitae*

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## Education

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|---|---|
| 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

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| Astronomical: | Fast Radio Bursts, Pulsars, Cosmology |
| Statistical: | Bayesian inference, Machine Learning, Algorithms |

## Awards

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|---|---|
| 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, **accepted** (arXiv:1808.09929)

### 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)

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

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| 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

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| 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

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| Programming | PYTHON (Proficient), C, C++, UNIX, LaTeX |
| Softwares | MATLAB, MATHEMATICA, QT DESIGNER |
| Web | WordPress, Markdown, GitHub |

## Language

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| **English** | *Professional working proficiency* |
| **Chinese** | *Native and bilingual proficiency* |
| **Japanese** | *Basic words and phrases only* |