Rui LUO

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EDUCATION

Peking University Sep 2013 - Jul 2019

Department of Astronomy, School of Physics

Doctor of Philosophy, Astrophysics

Dissertation: Measurement of the luminosity function of Fast Radio Bursts

Advisor: Prof. K.J. Lee (KIAA-PKU)

Huazhong University of Science and Technology

Sep 2009 - Jun 2013

School of Physics

Bachelor of Science, Applied Physics

EMPLOYMENT

CSIRO Space and Astronomy

Aug 2019 – present

Australia Telescope National Facility Research Plus Postdoctoral Fellow

Supervisor: Dr. George Hobbs (CSIRO-ATNF)

RESEARCH INTERESTS

Radio Astronomy: Fast Radio Bursts (FRBs), Pulsars, Radio Frequency Interference (RFI), the unknown unknowns

Statistics: Bayesian inference, Markov Chain Monte Carlo (MCMC)

Machine Learning: Convolutional Neural Network (CNN), Bayesian Optimization

AWARDS AND PRIZES

Rank No.1, Top 10 Research Progresses, Chinese Astronomy (Team Award)	2020
Vela Prize for oral presentations, FAST/Future Pulsar Symposium 8	2019
Second Academic Scholarship, Peking University	2013 - 2018
Kwang-Hua Scholarship, Peking University	2016
Second Prize of Chen Hu-Xiong Scholarship, Peking University	2015
Annual Scholarship, National Astronomical Observatories, Chinese Academy of Science	s 2013

OBSERVING EXPERIENCE

Five-hundred-meter Aperture Spherical radio Telescope	
Co-I: Observing the low-luminosity Fast Radio Bursts in the FAST sky, 8 hours	2020 - 2021
Co-I: Observing the radio transients from superluminous supernovae, 5 hours	2020 - 2021
Co-I: FAST observations of CU Virginis, 13.5 hours	2020 - 2021

PI: Monitoring the repeating FRB candidates, 12 hours

Jul – Oct 2019
Instrumentation: Configuring ROACH2 and monitoring the real-time bandpass

Apr 2016

Parkes 64-m radio telescope

Co-I: Monitoring the repeating FRB 180301, 32.5 hours	2021APRS
Co-I: A wide-band study of CU Virginis, 7 hours	2021APRS
PI: Observing the repeating FRB 180301 with the Parkes UWL, 32.5 hours	2020OCTS
PI: Monitoring the repeating FRB candidates in the Southern Sky, 16 hours	2020 APRS

Contributions: Parkes Pulsar Timing Array, 70+ hours	Nov 2020 – present
Australia Telescope Compact Array Co-I: Brown Dwarfs: Studying A New Class of Stellar Lighthouse, 14 hours PI: Observing CU Virginis at 16cm wavelength using the Green Time, 9 hours	2021APRS 2019OCTS
Kunming 40-m radio telescope Instrumentation: Installing the FRB backend and configuring its searching softwar Instrumentation: Calibration for two polarization channels from the feed	re Aug 2017 Oct 2014
Miyun 50-m radio telescope Instrumentation: Testing ROACH2 and observing pulsars	Aug 2015
INVITED TALKS IN COLLOQUIA OR SEMINARS	
MQ AAAstroseminar, Macquarie University, Sydney, Australia In-person talk: Diverse polarization angle swings from a repeating fast radio burst	May 2021 source
ASKAP-CRAFT Group Meeting, ATNF-Swinburne-Curtin, Australia Remote talk: Current FRB Science Outcomes with FAST	Mar 2021
Pulsar Group Meeting, MPIfR, Bonn, Germany	Feb 2021
Remote talk: Diverse polarization angle swings from a repeating fast radio burst so Colloquium, Curtin Institute of Radio Astronomy, Perth, Australia Remote talk: Diverse polarization angle swings from a repeating fast radio burst so	Jan 2021
Colloquium, Department of Astrophysics, University of Radboud, Nether Remote talk: Diverse polarization angle swings from a repeating fast radio burst so	erlands Dec 2020
Lunch Talk, Kavli IPMU, University of Tokyo, Japan Remote talk: Diverse polarization angle swings from a repeating fast radio burst so	Dec 2020
CSIRO-ATNF Co-learnium, Marsfield, NSW, Australia Remote talk: Life changes of the local residents around the FAST site Video recording: [Co-learnium link]	Dec 2020
CHIME/FRB Journal Club, Canada Remote talk: Diverse polarization angle swings from a repeating fast radio burst so	Dec 2020 ource
Video recording: [YouTube link] AUS-NZ-PSR Group Meeting, Australasia Remote talk: Diverse polarization angle swings from a repeating fast radio burst so	Nov 2020
CSIRO-ATNF Co-learnium, Marsfield, NSW, Australia In-person talk: A beginner's guide to Bayesian inference Video recording: [Co-learnium link]	Dec 2019
CSIRO-ATNF Colloquium, Marsfield, NSW, Australia In-person talk: Measurement of the luminosity function of Fast Radio Bursts	Sep 2019
Cosmology Group Meeting, NAOC, Beijing, China In-person talk: Measurements on the FRB luminosity function	Mar 2019
KIAA Graduate Dinner Talk, Peking University, Beijing, China In-person talk: An Overview on Fast Radio Bursts and FRB luminosity function	Dec 2018
NAOC Graduate Student Seminar, NAOC, Beijing, China In-person talk: A Review of Fast Radio Bursts and FRB luminosity function	Apr 2018
CONTRIBUTED TALKS IN CONFERENCES OR WORKSHOPS	
FRB 2021 International Meeting, Zoom Webinar Plenary talk: Diverse polarization angle swings from a repeating fast radio burst see	Jul – Aug 2021 ource
Video recordings: [Plenary 3A] and [Plenary 3B] C3DIS 2021 Conference, Virtual, Australia	Jul 2021

Pleany talk: Measurement of the luminosity function of Fast Radio Bursts Video recording: [Session 5] ATNF Bolton Symposium, Kensington, Perth, Australia Plenary talk: A new repeating FRB discovered by the FAST telescope FAST/Future Pulsar Symposium 8, Xi'an, China Plenury talk: Measurement of the luminosity function of Fast Radio Bursts Radio Astronomy Forum 2017, Pingtang, China Plenury talk: Measurement of the luminosity function of Fast Radio Bursts Radio Astronomy Forum 2017, Pingtang, China Poster talk: Simulating DM of host galaxies to derive FRB luminosity function Chinese Astronomical Society Annual Meeting 2016, Wuhan, China Session talk: Simulating the Dispersion Measure of FRB host galaxies Jing-Guang-Xia Astrophysics Meeting, Xiamen, China Plenary talk: Simulating the Dispersion Measure of FRB host galaxies QTT Colloquium Series 2016, Zunyi, China Plenary talk: Simulating the Dispersion Measure of FRB host galaxies PKU-XAO Bilateral Meeting, Urunqi, China Plenary talk: Simulating the Dispersion Measure of FRB host galaxies Chinese Astronomical Society Annual Meeting 2015, Beijing, China Session talk: Consideration of Research on FRBs QTT Colloquium Series 2015, Ming'antu, China Plenary talk: Consideration of Research on FRBs KIAA-SHAO Bilateral Workshop, Beijing, China Plenary talk: Consideration of FRB searching STUDENT MENTORSHIP Lunhua Shang: Co-advised, Joine-PhD student at NJUST and CSIRO Research projects: Studies on the pulsed variable stars with radio observations Weiyang Wang: Co-advised, Joine-PhD student at NJUST and CSIRO Research projects: Theoretical studies on Fast Radio Bursts TEACHING AND OUTREACH PULSE@Parkes: An outreach on Parkes pulsar observing for high-school students TA: GENERAL PHYSICS, School of Physics, Peking University TA: ATOMIC PHYSICS, School of Physics, Peking University TA: ATOMIC PHYSICS, School of Physics, Peking University TO Descent The CSIRO-ATNF Co-learnia: One of main organisers The ATCA Duty Astronome: 4 weeks 100 present 100 present 100 present 100	$Session\ talk:\ simulate Search-A\ package\ for\ simulating\ high\ time-resolution\ data\ in$	radio astronomy
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TECHNICAL SKILLS		J.
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Programming PYTHON (Proficient), C, C++, UNIX Softwares MATLAB, MATHEMATICA, PRESTO, TEMPO2, MULTINEST

Tools GIT, LATEX, WIKI, HTML

CODES DEVELOPED

- SIMULATESEARCH (in developing): A software for simulating the high time-resolution radio data.
- BayesWeib: A Python package for calculating the repeating burst rate under the Weibull distribution.
- FRBLFERD: A Bayesian code for inferring the event rate density of FRB luminosity function.
- FRBNORMLF: An FRB mock data simulator and a Bayesian code to measure the normalized FRB luminosity function.
- DMHOST: A package for Monte Carlo simulations on the dispersion measure of FRB host galaxies in the nearby universe.

LANGUAGES

Chinese Native
English Fluent
Japanese Elementary

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(Summary: 19 publications in total, including one first-author paper in Nature. H-index: 8, - Aug 2021)

First-author papers:

- 3. Luo, R., Wang, B. J., Men, Y. P., Zhang, C. F., Jiang, J. C., Xu, H., Wang, W. Y., Lee, K. J., Han, J. L., Zhang, B., Caballero, R. N., Chen, M. Z., Chen, X. L., Gan, H. Q., Guo, Y. J., Hao, L. F., Huang, Y. X., Jiang, P., Li, H., Li, J., Li, Z. X., Luo, J. T., Pan, J., Pei, X., Qian, L., Sun, J. H., Wang, M., Wang, N., Wen, Z. G., Xu, R. X., Xu, Y. H., Yan, J., Yan, W. M., Yu, D. J., Yuan, J. P., Zhang, S. B., & Zhu, Y., Diverse polarization angle swings from a repeating fast radio burst source, 2020, Nature, 586, 693
- 2. Luo, R., Men, Y. P., Lee, K. J., Wang, W. Y., Lorimer, D. R., & Zhang, B., On the FRB luminosity function II. Event rate density, 2020, MNRAS, 494, 665
- 1. Luo, R., Lee, K. J., Lorimer, D. R., & Zhang, B., On the normalized FRB luminosity function, 2018, MNRAS, 481, 2320

Second/Third-author papers:

- 7. Niu, C.-H., Li, D., **Luo, R.**, Wang, W.-Y., Yao, J., Zhang, B., Zhu, W.-W., et al. *CRAFTS* for Fast Radio Bursts II. Extending the dispersion-fluence relation with new FRBs detected by FAST, 2021, ApJ, 909, L8
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- 4. Men, Y. P., Luo, R., Chen, M. Z., Hao, L. F., Lee K. J., Li, J., Li Z. X., Liu, Z. Y., Pei, X., Wen, Z. G., Wu, J. J., Xu, Y. H., Xu, R. X., Yuan, J. P., & Zhang, C. F., Piggyback searching for fast radio bursts using Nanshan 26m and Kunming 40m radio telescopes I. Observing and data analysis systems, discovery of a mysterious peryton, 2019, MNRAS, 488, 3957
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- Yang, Y.-P., Luo, R., Li, Z., & Zhang, B., Large Host-galaxy Dispersion Measure of Fast Radio Bursts, 2017, ApJ, 839, L25

Other co-author papers:

- Bhandari, S., Heintz, K. E., Aggarwal, K., Marnoch, L., Day, C. K, Sydnor, J., Burke-Spolaor, S., Law, C. J., Prochaska, J. X, Tejos, N., Bannister, K. W., Butler, B. J., Deller, A. T., Ekers, R. D., Flynn, C., Fong, W.-F., James, C. W., Lazio, T. J. W., Luo, R., Mahony, E. K., Ryder, S. D., Sadler, E. M., Shannon, R. M., Han, J. L., Lee, K. J., & Zhang, B., Characterizing the FRB host galaxy population and its connection to transients in the local and extragalactic Universe, 2021, ApJ, submitted
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