Dongzi Li

Citizenship	Chinese	**gender**	female
Email	dongzili@caltech.edu	**Github**	https://github.com/fleaf5/

Appointments

2020-now	Sherman Fairchild Postdoctoral Scholar Research Associate California Institute of Technology

Education

2016-2021	PhD. Physics University of Toronto/ Canadian Institute for Theoretical Astrophysics, Canada
2015-2016	MSc. Physics (Perimeter Scholar International) University of Waterloo/ Perimeter Institute for Theoretical Physics, Canada
2011-2015	BSc. Astronomy Nanjing University, China

Major collaboration

2019-now	CHIME/FRB collaboration
2020-now	GMRT/FRB collaboration
2021-now	FAST FRB key project

Selected Presentations

2022 **Green Bank Observatory community webinars (invited)**
"The magneto-active environment near FRBs and pulsars"

2022 **UChicago KICP seminar, Chicago, US (invited)**
"The mystery of fast radio burst, the potential and the limit"

2021 **FRB 2021, virtual**
"Emission Properties of Periodic Fast Radio Bursts from the Motion ofMagnetars"

2021 **16th Marcel Grossman Meeting, virtual (invited)**
"long-term periodicities in FRB burst times"

2021 **Colloquium in ASTRON, Amsterdam, Netherlands (invited)**
"High-resolution study with interstellar lenses"

2020 **FRB 2020, Virtual Conference**
"Periodic Activity from a Fast Radio Burst Source"

2019 **Gravity Meets Plasma Workshop, Kunming, China**
"Plasma lensing birefringence: An Overview"

2019 **Meterwave Sky II, Pune, India**
"Plasma lensing birefringence: a magnetic zoo"

2018 **Scintillometry Workshop, Shanghai, China**
"Pulsar emission region holography with plasma lensing"

2018 **The International Pulsar Timing Array Science meeting, Albuquerque, United States**
"Under-standing radio pulse propagation and delay"

2017 **Scintillometry Workshop, Toronto, Canada**
"Constraining magnetic fields with a birefringent lens"

Allocations

Effelsberg 2022: 24h
High-frequency polarimetry of repeating FRBs in magneto-active environments

FAST 2021: A (8h) B(12h) C(30h)
Targeted Observations of Local Universe Fast Radio Bursts

VLBA DDT 2021:6h
VLBA milliarcsecond localization of FRB 20201124A

GMRT Cycle 40 (2021): 24h
Constraining models of the Repeating FRB 180916.J0158+65 with Polarization

Parkes 2019 OCT: 8h
Testing models of interstellar scintillation with the Vela pulsar

GMRT Cycle 33 (2017): 6h
Probing Differential Faraday Rotation of Vela

Co-I of 10 GMRT proposals and 1 Arecibo proposal.

- **Intrumental**: 2016-2020 Visit Algonquin radio telescope three times a year, debugging/installing feeds.

Supervising Experience

- 2020-2022 Suryarao Bethapudi(grad) *GMRT FRB polarization study*
Co-supervised with Laura Spitler
- 2018-2021 Akanksha Bij (Research Assistant) *Abnormal behaviors from Crab Giant Pulse*
Co-supervised with Dr. Hsiu-hsien Lin and Prof. Marten van Kerkwijk
- 2019-2020 Hengrui Zhu (Undergrad) *VLBI Study of Vela Pulsar*
- 2018-2018 Kayenta Schmidt (Undergrad) *Searching De-polarization from Crab Giant Pulse*
- 2017-2018 Steven Ufkes (Master) *Optimizing Toeplitz Matrix De-convolution Algorithm*
Co-supervised with prof. Ue-Li Pen
- 2016-2017 Visal Sok (Undergrad) *Optimizing Toeplitz Matrix De-convolution Algorithm*

Teaching/Outreach

2022	Public talk: Youtube/Weibo	Fast radio bursts
2020	Guest lecture: 30 students	Application of Radio Propagation Effects
2019	Public talk: 50 audiences	Sensing hidden signals with pulsars
2019	Tutorial: 50 students	Electricity and Magnetism
2018	Online tutorial: 40 students	Physics of Music
2016-2017	Lab demonstrator: 30 students	Introduction to physics