Curriculum Vitae

Personal Information

Name	Xiaosheng Zhao
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Advisor	Prof. Yi Mao

Presentation

I'm a third-year PhD student in Department of Astronomy (DoA), Tsinghua University. Currently I am working on 21-cm cosmology. I have interests in interdisciplinary research, and aim to using AI to help us better understand the universe. I am also studying the fundamental knowledge of radio astronomy.

Education

2018–	**PhD in Department of Astronomy (DoA),** Tsinghua University
2014–2018	**Bachelor Degree in School of Physics and Technology,** Wuhan University

Project

2019-	**EoR physical Parameter Estimation Using Wavelet Scattering Transform with Likelihood-free Inference** *paper in prep.*
2019 summer	**Apply the CVODE solver to a chemical interaction code for astrophysical environments which is developed by Prof. Xuening Bai in DoA, Tsinghua University**.
2018-2019	**Reionization Parameter Estimation Using Three-dimensional Tomographic 21 cm Images with Deep Learning** *paper in prep.*

Job

2019	**Teaching Assistant** in undergraduate Physics course.

Skills & Background Knowledge

Technical skills

Programming: Python, C, Shell, HTML

Data science and Machine learning application with Pandas, Scikit-learn, Tensorflow and Pytorch.