

EDUCATION	School of Physics, Huazhong University of Science and Technology Wuhan, China <i>Ph.D. in Physics (Theoretical Physics)</i> Sep. 2025 – Jun. 2029 (<i>expected</i>) <ul style="list-style-type: none">• Supervisor: Prof. Yan Wang• Research focus: gravitational-wave astrophysics• Affiliation: National Gravitation Laboratory (NGL), Huazhong University of Science and Technology (HUST)
	Department of Physics, The University of Hong Kong (HKU) Hong Kong SAR, China <i>M.Sc. in Physics</i> Sep. 2023 – Jul. 2024 (degree conferred Nov. 2024) <ul style="list-style-type: none">• Supervisor: Prof. Stephen Chi Yung Ng• Capstone Project: <i>Identifying Sources in Cygnus OB2 Using Multiwavelength Observations</i>
	Department of Materials Science, Jilin University Changchun, China <i>B.Sc. in Materials Physics</i> Sep. 2018 – Jun. 2022 <ul style="list-style-type: none">• Graduation Thesis: <i>Study on the Prompt Emission of Gamma-ray Bursts and its Polarization</i>• Research Mentor: Prof. Mi-Xiang Lan (Center for Theoretical Physics and College of Physics, Jilin University)
EXPERIENCE	Department of Astronomy, HUST Wuhan, China <i>Research Assistant (contract)</i> Nov. 2024 – Jun. 2025 <ul style="list-style-type: none">• Supervisor: Prof. Yuan-Chuan Zou• Gamma-ray bursts: light-curve time-series analysis and correlation studies in Python; led to a first-author peer-reviewed publication (see Publications)
PUBLICATIONS	<ol style="list-style-type: none">1. Ruo-Yu Guan and Mi-Xiang Lan. Interpreting time-integrated polarization data of gamma-ray burst prompt emission. <i>Astronomy & Astrophysics</i>, 670, A160 (2023). doi: 10.1051/0004-6361/202243805.2. Ruo-Yu Guan, Fei-Fei Wang, and Yuan-Chuan Zou. Hurst index of gamma-ray burst light curves and its statistical study. <i>Journal of High Energy Astrophysics</i>, 51, 100559 (2026). doi:10.1016/j.jheap.2026.100559.
RESEARCH PROJECTS	Galactic Structure Inference with Double White Dwarfs as Multi-Messenger Probes <i>Ph.D. research, HUST (NGL) (Supervisor: Prof. Yan Wang)</i> Jul. 2025 – Present
	Time-Series and Correlation Analysis of Gamma-Ray Burst Light Curves <i>Research project, HUST (Supervisor: Prof. Yuan-Chuan Zou); supported by National SKA Program of China (Grant No. 2022SKA0130100)</i> Oct. 2024 – Jan. 2026
	Gamma-Ray Burst Prompt Emission and Polarization <i>B.Sc. research, Jilin University (Mentor: Prof. Mi-Xiang Lan); supported by National Natural Science Foundation of China (Grants No. 11903014 and 12147217)</i> 2022 – Feb. 2023
SKILLS	Languages: Chinese (Mandarin: native; Cantonese: conversational); English (IELTS 6.5, 2023; completed an English-taught M.Sc. at HKU). Programming: Python (primary); MATLAB, Mathematica, R, IDL, C++ (familiar). Tools & systems: NumPy, SciPy, Pandas, Matplotlib; Jupyter; \LaTeX ; Git; Windows; macOS; Linux (Ubuntu); HPC (remote Linux servers; batch jobs).