

EDUCATION	<div><div>School of Physics, Huazhong University of Science and Technology Wuhan, China</div><div>Ph.D. in Physics (Theoretical Physics) Sep. 2025 – Jun. 2029 (expected)</div><div><ul style="list-style-type: none">Supervisor: Prof. Yan WangResearch focus: gravitational-wave astrophysicsAffiliation: National Gravitation Laboratory (NGL), Huazhong University of Science and Technology (HUST)</div></div> <div><div>Department of Physics, The University of Hong Kong (HKU) Hong Kong SAR, China</div><div>M.Sc. in Physics Sep. 2023 – Jul. 2024 (degree conferred Nov. 2024)</div><div><ul style="list-style-type: none">Supervisor: Prof. Stephen Chi Yung NgCapstone Project: <i>Identifying Sources in Cygnus OB2 Using Multiwavelength Observations</i></div></div> <div><div>Department of Materials Science, Jilin University Changchun, China</div><div>B.Sc. in Materials Physics Sep. 2018 – Jun. 2022</div><div><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)</div></div>
EXPERIENCE	<div><div>Department of Astronomy, HUST Wuhan, China</div><div>Research Assistant (contract) Nov. 2024 – Jun. 2025</div><div><ul style="list-style-type: none">Supervisor: Prof. Yuan-Chuan ZouGamma-ray bursts: light-curve time-series analysis and correlation studies in Python; led to a first-author peer-reviewed publication (see Publications)</div></div>
PUBLICATIONS	<div><div>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.</div><div>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.</div></div>
RESEARCH PROJECTS	<div><div>Galactic Structure Inference with Double White Dwarfs as Multi-Messenger Probes</div><div>Ph.D. research, HUST (NGL) (Supervisor: Prof. Yan Wang) Jul. 2025 – Present</div></div> <div><div>Time-Series and Correlation Analysis of Gamma-Ray Burst Light Curves</div><div>Research project, HUST (Supervisor: Prof. Yuan-Chuan Zou); supported by National SKA Program of China (Grant No. 2022SKA0130100) Oct. 2024 – Jan. 2026</div></div> <div><div>Gamma-Ray Burst Prompt Emission and Polarization</div><div>B.Sc. research, Jilin University (Mentor: Prof. Mi-Xiang Lan); supported by National Natural Science Foundation of China (Grants No. 11903014 and 12147217) 2022 – Feb. 2023</div></div>
SKILLS	<div><div>Languages: Chinese (Mandarin: native; Cantonese: conversational); English (IELTS 6.5, 2023; completed an English-taught M.Sc. at HKU).</div><div>Programming: Python (primary); MATLAB, Mathematica, R, IDL, C++ (familiar).</div><div>Tools & systems: NumPy, SciPy, Pandas, Matplotlib; Jupyter; \LaTeX; Git; Windows; macOS; Linux (Ubuntu); HPC (remote Linux servers; batch jobs).</div></div>