Han Wang 王晗

Education

Sun Yat-sen University (SYSU)

Zhuhai, China

Ph.D. Candidate in Astronomy (Expected graduation: Jun 2025)

Sep 2020 - present

o Thesis: Space-based Gravitational Wave Detection of Stellar-mass Binary Black Holes: A Multiband View

o Supervisor: Yi-Ming Hu

University of Portsmouth

Portsmouth, UK

Visiting Ph.D. Student

Oct 2023 - Oct 2024

Supervisor: Ian Harry

Huazhong University of Science and Technology (HUST)

Wuhan, China

B.S. in Physics

Sep 2016 - Jun 2020

Thesis: Analyses of Laser Propagation Noises for TianQin Gravitational Wave Observatory

o Supervisors: Yan Wang and Wei Su

University of California, Berkeley

Berkeley, USA

Berkeley International Study Program

Jan 2019 - May 2019

Selected Awards and Scholarships

State Scholarship Fund, China Scholarship Council To fund overseas study for awardees selected through rigid academic evaluation	Oct 2023 - Oct 2024
TianQin <i>Jianxing</i> Outstanding Postgraduate Scholarship Endowed scholarship for outstanding postgraduates who were involved in the Tian- Qin Gravitational Wave Detection Mission	2022 & 2023
The Postgraduate Skills Competition of TianQin Research Center For postgraduates who made an excellent scientific outreach video on topics related to gravitational waves	1 st in 2021 & 2 nd in 2022
Outstanding Graduate of HUST Top honor for undergraduates who would be graduating from HUST that year	2020
National Astronomical Observatories Scholarship, Chinese Academy of Sciences For nationwide outstanding undergraduates who had chosen astronomy as their research direction	2017 & 2019
Merit Student of HUST For undergraduates who were recognized for excellence in morality, academic performance and public service	2019
Outstanding Student Cadre of HUST	2017 & 2018

For outstanding undergraduate leaders who were involved actively in student asso-

Conferences and Presentations

Conferences:

ciations or organizations

15 th LISA Symposium, <i>University College Dublin</i> , Dublin, Ireland - poster	Jul 2024
Faculty of Technology Research and Innovation Conference, <i>University of Portsmouth</i> , Portsmouth, UK - poster	Jun 2024
24 th BritGrav meeting, <i>Queen Mary University of London</i> , London, UK - talk	Apr 2024
1 st Symposium on Gravitational Wave Astronomy in the Audio Band, <i>Beijing Normal University</i> , Zhuhai, China - remote talk	Mar 2024
2023 Academic Conference of the Gravity and Relativistic Astrophysics Branch, <i>Chinese Physical Society</i> , Chongqing, China - talk	Apr 2023

Selected Seminars:

LISA Ground Segment Meet Up, University of Birmingham, Birmingham, UK	Jan 2024
SYSU-PKU Bilateral Seminar on Gravitational Wave Astronomy, <i>TianQin Research Center</i> , Zhuhai, China	Mar 2023
Research Tools and Techniques Seminar, TianQin Research Center, Zhuhai, China	Dec 2021

Publications

Han Wang, Ian Harry, Alexander Nitz, Yi-Ming Hu. "Space-based gravitational wave observatories will be able to use eccentricity to unveil stellar-mass binary black hole formation". In: *Phys. Rev. D* 109.6, 063029 (Mar. 2024), p. 063029. DOI: 10.1103/PhysRevD.109.063029 ☑. arXiv: 2304.10340 [astro-ph.HE] ☑.

En-Kun Li*, Han Wang*, Hong-Yu Chen, Huimin Fan, Ya-Nan Li, Zhi-Yuan Li, Zheng-Cheng Liang, Xiang-Yu Lyu, Tian-Xiao Wang, Zheng Wu, Chang-Qing Ye, Xue-Ting Zhang, Yiming Hu, Jianwei Mei. "GWSpace: a multi-mission science data simulator for space-based gravitational wave detection". In: *arXiv e-prints*, arXiv:2309.15020 (Sept. 2023), arXiv:2309.15020. DOI: 10.48550/arXiv.2309.15020 C. arXiv: 2309.15020 [gr-qc] C.

Wei Su , Yan Wang , Chen Zhou , Lingfeng Lu , Ze-Bing Zhou , T. M. Li , Tong Shi , Xin-Chun Hu , Ming-Yue Zhou , Ming Wang , Hsien-Chi Yeh , **Han Wang** , P. F. Chen. "Analyses of Laser Propagation Noises for TianQin Gravitational Wave Observatory Based on the Global Magnetosphere MHD Simulations". In: *Astrophys. J.* 914.2, 139 (June 2021), p. 139. DOI: 10.3847/1538-4357/abfc49 . arXiv: 2102.10574 [astro-ph.SR] .

Outreach and Services

out out and out vices	
Outreach videos on gravitational waves [In Chinese] link1 🗹 link2 🗹	
Illustration development of TianQin Gravitational Wave Mission	
Volunteer of Stargazing at Portsmouth Historic Dockyard ☑	Jan 2024
Leader of Astronomy Enthusiasts Group of TianQin Research Center Organizing and live-streaming sidewalk astronomy observation and other astronomy outreach events	2020 - 2022
Lab manager of the Innovative Base for Physics Experiment (IBPE) of HUST Responsible for lab planning, procurement, daily maintenance, public outreach, etc. IBPE is a free platform that encourages students to engage in physics-related self-study and self-research.	2017 - 2018
Vice President of the Astronomy Enthusiasts Association of HUST	2017 - 2018
Core management of the Astronomy Enthusiasts Association of HUST Including but not limited to organizing sidewalk astronomy observation, inviting talks by astronomy experts, camping and stargazing trips, writing scientific outreach content for members, live-streaming astronomical events (e.g., total lunar eclipses), and giving astronomy outreach lectures at local high schools	2016 - 2019
Teaching	

Teaching Assistant of

Methods in Mathematical Physics	Fall 2022
Fundamentals of Physics II	Fall 2021
Thermodynamics and Statistical Physics	Spring 2020