

# Xiao-Tian Xu

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## Curricula Vitae

### Contact Information

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Tsung-Dao Lee Institute  
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### Personal Information

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Gender: Male  
Nationality: Chinese

Date of PhD defense: 18/01/2024 (DD/MM/YYYY)  
Identifiers/ORCID:  
<https://orcid.org/0000-0001-9565-9462>

### Research Interests

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Gravitational waves, Massive binary evolution, X-ray binaries

### Education

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- 2019-2024, PhD in Astrophysics, Argelander Institute for Astronomy, Universität Bonn, Bonn, Germany
- 2016-2019, MSc in astrophysics, School of Astronomy and Space Science, Nanjing University, Nanjing, China
- 2012-2016, BSs in astronomy, School of Astronomy and Space Science, Nanjing University, Nanjing, China

## Professional Skills

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- **Technical Skill:**
  - Computing detailed binary evolution models by using the 1D stellar and binary evolution code MESA
  - Building dense grids of detailed binary evolution models
  - Using detailed binary evolution models (MESA) to perform population synthesis calculations with self-developed tools
- **Programming:** Fortran, Python, bash, Python-based scientific software (Scipy, Numpy, Matplotlib)

## Professional Experience

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- Present, Tsung-Dao Lee Postdoctoral Fellow at Tsung-Dao Lee Institute, Shanghai Jiao-Tong University, China
- 2025, Guest researcher at School of Astronomy and Space Science, Nanjing University, China
- 2024, Guest researcher at Argelander-Institut für Astronomie, Universität Bonn, Germany
- Part of the BLOeM (Binarity at Low Metallicity ) collaboration
- 2019-2024, doctoral work at the University of Bonn, Germany
- 2024, talk at the Progenitors of Supernovae and their Explosions meeting, Dali, China
- 2023, talk at the VFTS meeting 2023, Max Planck Institute for Astrophysics, Garching, Germany
- 2022, talk at the VFTS meeting 2022, Max Planck Institute for Astronomy, Heidelberg, Germany
- 2021, teaching assistant for the course of "Stellar Structure and Evolution", Universität Bonn, Germany
- 2021, teaching assistant for the course of "Nucleosynthesis", Universität Bonn, Germany
- 2020, involvement in the organising committee of 2nd International Max Planck Research School (IMPRS) Conference, Max Planck Institute for Radio Astronomy, Bonn, Germany.
- 2020, teaching assistant for the course of "Stellar Structure and Evolution", Universität Bonn, Germany

## Awards

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- 2020, 江苏省优秀硕士毕业论文 Award for excellent master thesis in Jiangsu Province, China, thesis title: "Formation and Evolution of Neutron star / Black hole X-ray binaries"
- 2018, 研究生国家奖学金 China national scholarship for graduate students
- 2016, 南京大学本科优秀毕业论文 Award for excellent undergraduate thesis at Nanjing University, thesis title: "Spin evolution of Neutron stars in Be X-ray binaries"

- 2014, 本科生国家奖学金 China national scholarship for undergraduate students

## **Hobbies**

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Live music / Rock / Jazz / Playing Guitar / Bike