

Mingyu Xia

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RESEARCH INTERESTS

- Mesoscopic Transport: Applications of the **Nonequilibrium Green Function** theory to two-dimensional materials.
- Memory Kernel Coupling Theory (MKCT): Correlation Function Calculation.

EDUCATION

Westlake University, Physics Department	Zhejiang, China
Ph.D. in Science	09/2025 – <u>06/2030</u>
• Supervised by  WENJIE DOU (<i>Laboratory of Theoretical and Computational Chemistry</i>)	
• Thesis: <u>(Expecting)</u>	
• Awards: <u>(Expecting)</u>	(Expecting)
Hangzhou Dianzi University, Opto-Electronics Information Science and Engineering	Zhejiang, China
Bachelor of Engineering	09/2021 – 06/2025
• Thesis: <u>Research & Applications of Micromagnetics Based on LLG Equation</u>	(Excellent Thesis Exhibition Award)
• Awards: The first, second and third prize scholarships once. GPA: 3.83	

PUBLICATIONS

- [1] M. Xia, *(expecting)*, 2026.
- [2] M. Xia, *(expecting)*, 2026.
- [3] M. Xia, *(expecting)*, 2026.
- [4] M. Xia, *(expecting)*, 2026.
- [5] M. Xia, *(expecting)*, 2026.

RESEARCH EXPERIENCE

Undergraduate Research Summer Camp at CUHK(SZ)	07/2024 – 08/2024
• School of Science and Engineering, Physics Programme	Academic Exploration Award
• Topic: <u>Research on the Transitions of Magnetic Skyrmion Tube, Toron and Chiral Bobber Controlled by PMA and External Field in Chiral Magnets</u>	

HONORS & AWARDS

Zhou Peiyuan Mechanics Competition for College Students	08/2023, 07/2025
• The National Third Prize	Chinese Society of Theoretical and Applied Mechanics
Mathematics Competition of Chinese	01/2023
• The National Second Prize	Chinese Mathematical Society
Undergraduates Physics Experiment and Department Technological Innovation Competition	09/2023
• The Provincial Third Prize	Zhejiang Physical Society

SKILLS

- IT Skills: MATLAB, Python, L^AT_EX, Origin
- Languages: Native Chinese, Proficient English (IELTS: 6.0), Basic knowledge of Cantonese