

Mingyu Xia

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✍ RESEARCH INTERESTS

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

♦ EDUCATION

Westlake University, Physics Department, <i>Laboratory of Theoretical and Computational Chemistry</i>	Zhejiang, China
<i>Ph.D. in Science</i>	09/2025 – 06/2030
• Thesis: <i>(Expecting)</i>	
• Awards: <i>(Expecting)</i>	(Expecting)
Hangzhou Dianzi University, Opto-Electronics Information Science and Engineering	Zhejiang, China
<i>Bachelor of Engineering</i>	09/2021 – 06/2025
• Thesis: <i>Research & Applications of Micromagnetics Based on LLG Equation</i>	(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: <i>Research on the Transitions of Magnetic Skyrmion Tube, Toron and Chiral Bobber Controlled by PMA and External Field in Chiral Magnets</i>	

﴿ 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