



# 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

<b>Westlake University</b> , Physics	Zhejiang, China
<i>Ph.D. in Science</i>	09/2025 – 06/2030
<ul style="list-style-type: none"><li>• <b>Thesis:</b> <i>(Expecting)</i></li><li>• <b>Awards:</b> <i>(Expecting)</i></li></ul>	
<b>Hangzhou Dianzi University</b> , Opto-Electronics Information Science and Engineering	Zhejiang, China
<i>Bachelor of Engineering</i>	09/2021 – 06/2025
<ul style="list-style-type: none"><li>• <b>Thesis:</b> <i>Research &amp; Applications of Micromagnetics Based on LLG Equation</i> (Excellent Thesis Exhibition Award)</li><li>• <b>Awards:</b> The first, second and third prize scholarships once. GPA: 3.83</li></ul>	

## 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

<b>Undergraduate Research Summer Camp at CUHK(SZ)</b>	07/2024 – 08/2024
<ul style="list-style-type: none"><li>• School of Science and Engineering, PHY Programme</li><li>• Topic: <i>Research on the Transitions of Magnetic Skyrmion Tube, Toron and Chiral Bobber Controlled by PMA and External Field in Chiral Magnets</i></li></ul>	
	Academic Exploration Award

## HONORS & AWARDS

<b>Zhou Peiyuan Mechanics Competition for College Students</b>	08/2023, 07/2025
<ul style="list-style-type: none"><li>• The National Third Prize</li></ul>	
	Chinese Society of Theoretical and Applied Mechanics
<b>Mathematics Competition of Chinese</b>	01/2023
<ul style="list-style-type: none"><li>• The National Second Prize</li></ul>	
	Chinese Mathematical Society
<b>Undergraduates Physics Experiment and Department Technological Innovation Competition</b>	09/2023
<ul style="list-style-type: none"><li>• The Provincial Third Prize</li></ul>	
	Zhejiang Physical Society

## SKILLS

- **IT Skills:** MATLAB, Python,  $\LaTeX$ , Origin
- **Languages:** Native Chinese, Proficient English (IELTS: 6.0), Basic knowledge of Cantonese