

# Yuming Li — Curriculum Vitae

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## Education

<b>Peking University</b> <i>Master's in Software Engineering (Artificial Intelligence)</i>	<b>Beijing, China</b> 2023 – Present
<b>Northwestern Polytechnical University</b> <i>Bachelor's in Computer Science and Technology</i>	<b>Xi'an, China</b> 2019 – 2023

## Research Experience

<b>X-Humanoid</b> <i>Research Intern</i>	<b>Beijing, China</b> Feb 2025 – Dec 2025
<ul style="list-style-type: none"><li>• Focused on fine-tuning Wan2.1-based video diffusion models for scene-level world simulation and post-trained reinforcement learning agents on the generated environments.</li><li>• Supported downstream video-to-action tasks through integration with Multimodal Large Language Models (MLLMs) after world model construction.</li></ul>	
<b>ByteDance</b> <i>Research Intern, Commercialization Department</i>	<b>Beijing, China</b> Feb 2025 – June 2025
<ul style="list-style-type: none"><li>• Trained a unified <i>Multimodal Understanding &amp; Generation</i> large model; optimized its cross-modal tokenizer, then fine-tuned the model for image editing and introduced tabular tokens to boost classification performance.</li><li>• Optimized the initial noise for video generation, enhancing the temporal consistency and quality of generated videos.</li></ul>	
<b>Tencent</b> <i>Research Intern, RoboticsX</i>	<b>Shenzhen, China</b> Jun 2024 – Feb 2025
<ul style="list-style-type: none"><li>• Investigated visual-language-action (VLA) models for robotic manipulation; reproduced the Pi-0 model and diffusion-policy.</li><li>• Built a dynamic-model-based dual-arm system for cloth folding, leveraging 3D point-cloud state estimation to achieve precise manipulation of flexible objects.</li></ul>	
<b>Phigent Robotics</b> <i>Research Intern</i>	<b>Beijing, China</b> Dec 2023 – Jun 2024
<ul style="list-style-type: none"><li>• Focused on high-resolution image generation using low-memory techniques, achieving significant improvements in both speed and model scalability for high-resolution outputs.</li></ul>	

## Publications

- [1]: **Yuming Li\***, M. Lu, Z. Li, X. Chi, Q. She, S. Zhang. **A-ToMe: Adaptive Token Merge for Diffusion Models**. \*Under Review
- [2]: **Yuming Li\***, P. Jia, D. Hong, Y. Jia, Q. She, R. Zhao, M. Lu, S. Zhang. **ASGDiffusion: Parallel High-Resolution Generation with Asynchronous Structure Guidance**. \*Under Review
- [3]: C. Bai, **Yuming Li\***, M. Lu, S. Zhang. **Noise Optimization for Video Generation: A Learnable Approach to Enhance Temporal Consistency**. \*Under Review
- [4]: G.Li, Y.Gao, **Yuming Li**, Y. Wu. **ThinkLess: A Training-Free Inference-Efficient Method for Reducing Reasoning Redundancy**. \*Under Review
- [5]: Y. Li, X. Wei, X. Chi, **Yuming Li**, Z. Zhao, H. Wang, N. Ma, M. Lu, S. Zhang. **ManipDreamer: Boosting Robotic Manipulation World Model with Action Tree and Visual Guidance**. \*Under Review
- [6]: R. Ma, M. Guo, **Yuming Li**, H. Zhang, C. Ma, X. Xie, S. Zhang. **PiGW: A Plug-in Generative Water-marking Framework**. \*Under Review
- \*First author/ Equal contribution

## Technical Skills

**Programming:** Python == C > C++ > Java

**Tools:** Linux, Pytorch, VSCode, Conda, Git, Docker, Ros