

Junhan Zhu

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Brief Intro

I am an undergraduate student at Westlake University, actively seeking Ph.D. opportunities for Fall 2027. My research interests lie in **Efficient AI** and **Computer Vision**, with a focus on developing novel algorithms for model compression and efficient generative models.

Education

Westlake University, Bachelor of Engineering in Electronic and Information Engineering	Sept. 2023 – Present
• Major GPA: 4.04/4.3	
• Selected Coursework: Data Structures and Algorithms (A+), Calculus (A+), Digital Circuits (A+), Linear Algebra (A), Probability and Statistics (A), Natural Language Processing (A).	

Experience

Visiting Research Student	Dec. 2024 - Present
ENCODE Lab, Westlake University	Advisor: Prof. Huan Wang
• Proposed <i>OBS-Diff</i> , a novel training-free, one-shot pruning framework for diffusion models, supporting diverse architectures and pruning granularities.	
• Developed <i>SparAlloc</i> , a modular benchmark and toolkit for sparsity allocation algorithms in Large Language Model (LLM) pruning.	
Visiting Research Student	July 2024 - Nov. 2024
TGAI Lab, Westlake University	Advisor: Prof. Yaochu Jin
• Investigated foundational principles of Spiking Neural Networks (SNNs).	
• Conducted a literature review on the application of AI in chip placement optimization.	
• Proposed a novel Dynamic Time Warping (DTW) based algorithm for optimal threshold selection in aliased signal feature decoding.	

Publication

OBS-Diff: Accurate Pruning For Diffusion Models in One-Shot

J. Zhu, H. Wang, M. Su, Z. Wang, H. Wang*

[arXiv:2510.06751](#) | [Project Page](#) | [GitHub](#)

Oct. 2025

Preprint

- Proposed the first training-free, one-shot pruning framework for diffusion models, demonstrating broad applicability across diverse architectures and pruning granularities.
- Revitalized the classic Optimal Brain Surgeon (OBS) method for large-scale text-to-image models, achieving state-of-the-art compression performance while maintaining high generative quality, especially at high sparsity regimes.

Project

SparAlloc: A Modular Framework for Decoupled Sparsity Allocation in LLM Pruning

[GitHub](#)

May 2025

- Developed a standardized benchmark by collecting and evaluating diverse sparsity allocation algorithms for fair comparison.
- Designed as a modular toolkit to facilitate research by enabling flexible combinations of various pruning algorithms and sparsity allocation methods.

Awards

• Hongyi Scholarship , Westlake University	Dec. 2024
• Outstanding Bachelor's Student , Westlake University	Oct. 2025
• Innovation Award , Westlake University	Oct. 2024 & Oct. 2025

Skills

- **Programming:** Python, PyTorch, C/C++
- **Developer Tools:** Git, LaTeX, Linux Shell
- **Languages:** Chinese (Native), English (Fluent, IELTS 7.0)
- **Non-Technical:** Communication, Teamwork, Adaptability, Self-Management, Critical Thinking