

# Zhiwei Li

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Shanghai, China  
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- EDUCATION**      **Fudan University**      Sep, 2023 – Jul, 2025  
*Master of Science (M.Sc)*  
*Statistics*  
*Thesis: EFFICIENT SPARSE NEURAL NETWORK OPTIMIZATION ALGORITHM*  
*Advised by Weizhong Zhang*
- Shanghai University of Finance and Economics**      Sep, 2019 – Jul, 2023  
*Bachelor of Science (B.Sc)*  
*Statistics*  
*Thesis: ANALYSIS OF LOGISTIC REGRESSION ON PERFECT LINEAR SEPARABILITY*  
*Advised by Yang Bai*
- RESEARCH**      (1) Model (LLM) Compression & Acceleration  
                         (2) Efficient Federated Learning  
                         (3) Multimodal LLM
- PUBLICATION & PREPRINT**      2024
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- Low Precision Local Training is Enough for Federated Learning**  
*38th Conference on Neural Information Processing Systems*  
<https://openreview.net/pdf?id=vvpewjtnvm>  
Li, Z., Li, Y., Lin, B., Jin, Z., Zhang, W.
- Computationally and Memory-Efficient Pruning for Deep Neural Networks**  
*Submitted to CVPR2025*  
~~Not submitted to Arxiv~~  
Li, Z., Liao, Y., Wu, B., Zhou, Y., Shi, X., Jiang, D., Li, Y., Zhang, W.
- Enhance Consistency Models via Optimizing Training Data's Marginal Distribution**  
*Submitted to ICML2025*  
~~Not submitted to Arxiv~~  
Zhou, Y., Wu, B., Li, Z., Liao, Y., Ma, Q., Wei, Z., Gao, Y., Jin, Z., Zhang, W.
- INTERNSHIP**      **Meituan**      Jun, 2024 – Oct, 2024  
*Multimodal LLM*  
*Researcher | Supervisor: Zequn Jie*  
Reproduce MetaCLIP, build Chinese Meta Data (50K) via balanced query distribution.  
Fine-tune Qwen2-vl for annotation, surpassing GPT-4o on specialized data.
- Taoli**      Jun, 2023 – Sep, 2023  
*Machine Learning*  
*Researcher | Supervisor: Hui Xiao*  
Build Gaussian HMM strategy for IC/IH/IF futures using 60-min K-line indicators.  
Boost HMM with XGB for state estimation, likelihood improvement, slide updates.
- RESEARCH EXPERIENCE**      **Analysis of Logistic Regression On Perfect Linear Separability**  
*Excellent Undergraduate Thesis*  
Proved logistic regression fails on linearly separable data, validated via simulation.  
Showed regularization prevents parameter norm growth, enabling solutions.
- Adversarial Diffusion Distillation Acceleration**  
Reduce sampling steps via progressive distillation, cutting reverse process to 10 steps.  
Apply FreeU and adversarial training to improve quality and reduce steps to 4.

**SKILLS****Languages:** Chinese(native), English(fluent)**Tools & Framework:** PyTorch, Transformer, Deepspeed