

Qizhe Zhang

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EDUCATION

- **Peking University** Beijing, China
Ph.D. in Computer Application Technology; Advisor: Shanghang Zhang Sep 2023 – Present
B.S. in Intelligent Science and Technology; Turing Class (Honor Class); GPA: 3.73/4.00 Sep 2019 – Jun 2023
B.S. in Economics; National School of Development; Dual Degree Sep 2019 – Jun 2023

EXPERIENCE

- **ByteDance** Beijing, China
AI Research Intern, ByteDance AI Lab; Advisor: Qi She Mar 2024 - Present
 - **Multimodal Large Language Model:** Model Efficiency, Inference Acceleration
- **Beijing Academy of Artificial Intelligence (BAAI)** Beijing, China
AI Research Intern, AGI Research Center; Advisor: Shuicheng Yan Jun 2023 - Sep 2023
 - **Large Language Model:** Memory Mechanism, Continual Learning
- **OPPO** Beijing, China
AI Research Intern, OPPO Research Institute; Advisor: Yandong Guo Sep 2022 - Feb 2023
 - **Autonomous Driving:** Bird's-Eye-View (BEV) Perception, V2X Cooperative Perception
- **Beijing Institute for General AI (BIGAI)** Beijing, China
AI Research Intern, Frontier Research Center; Advisor: Baoxiong Jia Sep 2021 - Feb 2022
 - **Multimodal Learning:** Embodied Cognition

PUBLICATIONS

- **Beyond Attention or Similarity: Maximizing Conditional Diversity for Token Pruning in MLLMs**
Zhang Q., Liu M., Li L., Lu M., Zhang Y., Pan J., She Q., & Zhang S. NeurIPS 2025 (under review)
- **Beyond Text-Visual Attention: Exploiting Visual Cues for Effective Token Pruning in VLMs**
Zhang Q., Cheng A., Lu M., Zhang R., Zhuo Z., Cao J., Guo S., She Q., & Zhang S. ICCV 2025
- **A generalist foundation model and database for open-world medical image segmentation**
Zhang S., Zhang Q.*, Zhang S., Liu X.*, Yue J.*, Lu M., ..., & Wang G.* Nature Biomedical Engineering 2025
- **Gradient-based Parameter Selection for Efficient Fine-Tuning**
Zhang Z., Zhang Q.*, Gao Z., Zhang R., Shutova E., Zhou S., & Zhang S.* CVPR 2024
- **Unsupervised Spike Depth Estimation via Cross-modality Cross-domain Knowledge Transfer**
Liu J., Zhang Q.*, Li X., Li J., Wang G., Lu M., Huang T., & Zhang S.* ICRA 2024
- **MoVE-KD: Knowledge Distillation for VLMs with Mixture of Visual Encoders**
Cao J., Zhang Y., Huang T., Lu M., Zhang Q., An R., Ma N., & Zhang S. CVPR 2025
- **Continual-MAE: Adaptive Distribution Masked Autoencoders for Continual Test-Time Adaptation**
Liu J., Xu R.*, Yang S., Zhang R., Zhang Q., Chen Z., Guo Y., & Zhang S.* CVPR 2024
- **Exploring Sparse Visual Prompt for Domain Adaptive Dense Prediction**
Yang, S., Wu, J.*, Liu, J.*, Li, X., Zhang, Q., Pan, M., Gan, Y., Chen, Z., & Zhang S.* AAAI 2024

SKILLS

- **Programming Languages:** Python, C/C++, C#, Java, Javascript, MATLAB, SQL
- **Code Library:** PyTorch, NumPy, SciPy, scikit-learn, pandas, matplotlib, OpenCV
- **Research Field:** visual perception, multimodal learning, foundation model, efficient tuning

INTERESTS

- Vision Language Model
- Computer Vision
- AI in Medicine