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* — *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* — *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* — *Sep 2021 - Feb 2022*
    - **Multimodal Learning**: Embodied Cognition

Publications

- **Beyond Attention or Similarity: Maximizing Conditional Diversity for Token Pruning in MLLMs**
  Zhang Q., *Liu L., 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