# Xiaoqian Shen

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Google Scholar Github

## Research Interest

- **Generative Models:** Image / Video / Sequence Generation
- **Vision-Language:** Multi-modal Comprehension / Generation

## Education

**King Abdullah University of Science and Technology**, Saudi Arabia. Jan. 2024 – present
Ph.D. Computer Science, supervised by Prof. Mohamed Elhoseiny.

**King Abdullah University of Science and Technology**, Saudi Arabia. Aug. 2022 – Dec. 2023
M.Sc. Computer Science. GPA: 3.75/4.0 (M.S./Ph.D. program)
Thesis title: *Efficient Learning Algorithms for Temporally Consistent Video Synthesis*

**Jilin University**, China. Aug. 2018 – Jun. 2022
B.S. Computer Science. GPA: 3.77/4.0

## Experience

- **Research Scientist Intern**, Meta. May. 2024 - Sep. 2024, United States
  Dr. Yunyang Xiong, XR Core AI, Burlingame
  Multimodal foundation model optimization
- **Visiting research student**, KAUST. Dec. 2021 - Mar. 2022, Saudi Arabia
  Prof. Mohamed Elhoseiny's group
  Leverage hierarchical constructive learning for large-scale zero-shot classification
- **Research assistant**, Tsinghua University. Sep. 2020 - Mar. 2021, China
  Prof. Yongfeng Huang's group
  Medical Relation Extraction for Chinese Medicine Instructions
- **Research assistant**, HEBUT & University of Oxford. May. 2020 - Sep. 2020, Remote
  Prof. Zhenghua Xu's group
  Utilize multimodality information of medical images for downstream tumor segmentation

## Publications

1. K. Ataallah, E. A. **Xiaoqian Shen**, E. Sleiman, *et al.*, "Goldfish: Vision-language understanding of arbitrarily long videos," **[ECCV 2024]**.
2. K. Haydarov, **Xiaoqian Shen**, A. Madasu, *et al.*, "Affective visual dialog: A large-scale benchmark for emotional reasoning based on visually grounded conversations," **[ECCV 2024]**.
3. K. Haydarov, A. Muhamed, **Xiaoqian Shen**, *et al.*, "Adversarial text to continous image generation," **[CVPR 2024]**.
4. D. Zhu*, J. Chen*, **Xiaoqian Shen**, X. Li, and M. Elhoseiny, "Minigpt-4: Enhancing vision-language understanding with advanced large language models," **[ICLR 2024]**.
5. **Xiaoqian Shen** and M. Elhoseiny, "Storygpt-v: Large language models as consistent story visualizers," *arXiv*, 2023.

6. J. Chen, D. Zhu, **Xiaoqian Shen**, *et al.*, "Minigpt-v2: Large language model as a unified interface for vision-language multi-task learning," *arXiv*, 2023.
7. E. M. Bakr, **Xiaoqian Shen***, P. Sun*, F. F. Khan*, L. E. Li, and M. Elhoseiny, "Hrs-bench: Holistic, reliable and scalable benchmark for text-to-image models," *Proceedings of the IEEE/CVF International Conference on Computer Vision*, pp. 20 041–20 053, 2023, **[ICCV 2023]**.
8. **Xiaoqian Shen**, X. Li, and M. Elhoseiny, "Mostgan-v: Video generation with temporal motion styles," *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, pp. 5652–5661, 2023, **[CVPR 2023]**.
9. D. Zhu, J. Chen, K. Haydarov, **Xiaoqian Shen**, W. Zhang, and M. Elhoseiny, "Chatgpt asks, blip-2 answers: Automatic questioning towards enriched visual descriptions," **[TMLR]**.
10. J. Zhang, S. Zhang, **Xiaoqian Shen**, T. Lukasiewicz, and Z. Xu, "Multi-condos: Multimodal contrastive domain sharing generative adversarial networks for self-supervised medical image segmentation," *IEEE Transactions on Medical Imaging*, 2023.
11. K. Yi, **Xiaoqian Shen**, Y. Gou, and M. Elhoseiny, "Exploring hierarchical graph representation for large-scale zero-shot image classification," *European Conference on Computer Vision*, pp. 116–132, 2022, **[ECCV 2022]**.
12. T. Qi, S. Qiu, **Xiaoqian Shen**, *et al.*, "Kemre: Knowledge-enhanced medical relation extraction for chinese medicine instructions," *Journal of Biomedical Informatics*, vol. 120, p. 103 834, 2021.

## Academic Services

- **Conference reviewer**, CVPR, ECCV, SIGGRAPH Asia
- **Journal reviewer**, IJCV, CVIU

## Skills

- **Languages**: Chinese, English (TOEFL 104/120, GRE 328/340).
- **Coding**: Python, C/C++, Java, HTML5, LaTeX.
- **Software**: Photoshop, Final Cut Pro.

## Awards

- KAUST Graduate Scholarship. 2022 - present
- Outstanding Undergraduate Thesis Award. 2022
- Academic Scholarship. 2019 - 2021