


# Zekun Qi

✉ qizekun@gmail.com     qizekun.github.io     Google Scholar

 <https://github.com/qizekun>     +86 15176182051




 Current research directions include 3D computer vision, multimodal large language models, and embodied AI.



## Education






- 2022 – ····     **M.S. Xi'an Jiaotong University & IIS, Tsinghua University** *Software Engineering*  
Supervised by Prof. [Andrew C. Yao](#) and Prof. [Kaisheng Ma](#), while also collaborating closely with Prof. [Li Yi](#) and Prof. [He Wang](#). Our group's homepage is [ArchipLab](#).
- 2018 – 2022     **B.S. Xi'an Jiaotong University** *Automation*  
Ranked in the top 10% academic performance. Achieved a **first-class** university scholarship and honored as an outstanding graduate.

## Employment History



- 2024.3 – ······     **Galbot Inc.**    *Research Intern*  
Embodied LLM structure design for open vocabulary robotic manipulation.
- 2023.7 – 2024.3     **MEGVII Inc.**    *Research Intern*  
Multi-modal Large Language Model structure design and data filtering.
- 2021.6 – 2022.2     **ByteDance Inc.**    *Engineer Intern*  
Build a performance monitoring platform using Selenium. Use SIFT and KNN algorithms to achieve online front-end comparison. Construct the Lark service bot.

## Research Publications

### Conference Proceedings

- 1    **Z. Qi**, R. Dong, G. Fan, Z. Ge, *et al.*, **Contrast with reconstruct: Contrastive 3d representation learning guided by generative pretraining**, in **ICML, 2023**.  URL: <https://openreview.net/forum?id=80IfYewOh1>.
- 2    **Z. Qi**, M. Yu, R. Dong, and K. Ma, **Vpp: Efficient universal 3d generation via voxel-point progressive representation**, in **NeurIPS, 2023**.  URL: <https://openreview.net/forum?id=etd0ebzGOG>.
- 3    **Z. Qi**, R. Dong, S. Zhang, H. Geng, *et al.*, **Shapellm: Universal 3d object understanding for embodied interaction**, in **ECCV, 2024**.  URL: <https://arxiv.org/abs/2402.17766>.
- 4    R. Dong, **Z. Qi**, L. Zhang, J. Zhang, *et al.*, **Autoencoders as cross-modal teachers: Can pretrained 2d image transformers help 3d representation learning?** In **ICLR, 2023**.  URL: <https://openreview.net/forum?id=8Oun8ZUVe8N>.
- 5    R. Dong, C. Han, Y. Peng, **Z. Qi**, *et al.*, **Dreamllm: Synergistic multimodal comprehension and creation**, in **ICLR Spotlight, 2024**.  URL: <https://openreview.net/forum?id=y01KGvd9Bw>.

### Preprint Articles

- 1    G. Fan, **Z. Qi**, W. Shi, and K. Ma, **Point-gcc: Universal self-supervised 3d scene pre-training via geometry-color contrast**, *arXiv preprint*, 2023.  URL: <https://arxiv.org/abs/2305.19623>.
- 2    Y. Peng, Y. Cui, H. Tang, **Z. Qi**, *et al.*, **Dreambench++: A human-aligned benchmark for personalized image generation**, *arXiv preprint*, 2024.  URL: <https://arxiv.org/abs/2406.16855>.

## Skills

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Languages	📖	reading, writing and speaking competencies in English and Chinese.
Coding	📖	<b>Python</b> , C, C++, Matlab, $\LaTeX$ , ...
Library	📖	<b>PyTorch</b> , Numpy, Pandas, OpenCV, sklearn...
Misc.	📖	<b>ChatGPT</b> , Linux, <b>DataBase</b> (SQL, MongoDB), <b>Data Mining</b> (Beautiful Soup, Selenium), Embedded system (Keil-ARM, C51), Android Development, PhotoShop, Blender, ...

## Miscellaneous Experience

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### Awards and Achievements

2020	📖	<b>National Special Prize for China Undergraduate Physics Tournament</b> Won the <b>national runner-up</b> of the China Undergraduate Physics Tournament (CUPT) as the team leader. <a href="#">Commendation Website</a> . The <b>paper</b> is published in the core journal <i>Physics and Engineering</i> .
	📖	<b>Provincial First Prize for China Undergraduate Mathematical Contest in Modeling</b> Based on graph theory and reinforcement learning to model and analyze desert gold-digging games, the <b>paper</b> is published in the core journal <i>China Collective Economy</i> .
2021	📖	<b>National Excellence Award for Undergraduate Innovation &amp; Entrepreneurship Projects</b> Regional intrusion and abnormal behavior detection, utilizing frame differencing for motion region detection and segmentation, mean shift algorithm for object tracking, and YOLO for object recognition.
	📖	<b>Annual Spiritual Civilization Award in Xi'an Jiaotong University</b> Won the Innovation and Entrepreneurship Award, which is granted to only <b>ten</b> individuals each year. <a href="#">Commendation Website</a> .