

JIANQI CHEN

King Abdullah University of Science and Technology

[Home Page](#) [WindVChen](#) [Scholar](#) [ORCID](#) [✉ windvchen@gmail.com](mailto:windvchen@gmail.com)

RESEARCH KEYWORDS

4D Animation Reconstruction, 3D Feed-Forward Reconstruction, Object Pose Estimation, Human Motion Generation, Adversarial Attack and Defense, Text-to-Image Synthesis, Remote Sensing, Image Recognition

EDUCATION

PhD in King Abdullah University of Science and Technology

Computer Science

Aug 2024 – Present

Advisor: Prof. Peter Wonka

Master in Beihang University

Pattern Recognition and Intelligent Systems, **GPA: 3.86/4.0, Ranking: (1/140)**

Sep 2021 – Jan 2024

Advisor: Prof. Zhenwei Shi

Bachelor in Beihang University

Control Science and Engineering, **GPA: 3.78/4.0, Ranking: (3/83)**

Sep 2017 – Jun 2021

Advisor: Prof. Zhenwei Shi

SELECTED FIRST AUTHOR PUBLICATIONS

PoseGAM: Robust Unseen Object Pose Estimation via Geometry-Aware Multi-View Reasoning [\[Paper\]](#) [\[Github\]](#) [\[Project\]](#)

Published as **Oral (Top 3.4%)**, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2026

Jianqi Chen, Biao Zhang, Xiangjun Tang, and Peter Wonka

V2M4: 4D Mesh Animation Reconstruction from a Single Monocular Video [\[Paper\]](#) [\[Github\]](#) [\[Project\]](#)

Published, *International Conference on Computer Vision (ICCV)*, 2025

Jianqi Chen, Biao Zhang, Xiangjun Tang, and Peter Wonka

Sitcom-Crafter: A Plot-Driven Human Motion Generation System in 3D Scenes [\[Paper\]](#) [\[Github\]](#) [\[Project\]](#)

Published, *International Conference on Learning Representations (ICLR)*, 2025

Jianqi Chen, Panwen Hu, Xiaojun Chang, Zhenwei Shi, Michael Kampffmeyer, and Xiaodan Liang

Diffusion Models for Imperceptible and Transferable Adversarial Attack [\[Paper\]](#) [\[Github\]](#)

Published, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2024

Jianqi Chen, Hao Chen, Keyan Chen, Yilan Zhang, Zhengxia Zou, and Zhenwei Shi

Zero-Shot Image Harmonization with Generative Model Prior [\[Paper\]](#) [\[Github\]](#) [\[Video\]](#)

Published, *IEEE Transactions on Multimedia (TMM)*, 2025

Jianqi Chen, Yilan Zhang, Zhengxia Zou, Keyan Chen, and Zhenwei Shi

Dense Pixel-to-Pixel Harmonization via Continuous Image Representation [\[Paper\]](#) [\[Github\]](#) [\[Demo\]](#)

Published, *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 2023

Jianqi Chen, Yilan Zhang, Zhengxia Zou, Keyan Chen, and Zhenwei Shi

Digital-to-Physical Visual Consistency Optimization for Adversarial Patch Generation in Remote Sensing Scenes [\[Paper\]](#) [\[Github\]](#)

Published, *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2024

Jianqi Chen, Yilan Zhang, Chenyang Liu, Keyan Chen, Zhengxia Zou, and Zhenwei Shi

Contrastive Learning for Fine-grained Ship Classification in Remote Sensing Images [\[Paper\]](#) [\[Github\]](#)

Published, *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2022

Jianqi Chen, Keyan Chen, Hao Chen, Wenyan Li, Zhengxia Zou, and Zhenwei Shi

A Degraded Reconstruction Enhancement-based Method for Tiny Ship Detection in Remote Sensing Images with A New Large-scale Dataset [\[Paper\]](#) [\[Github\]](#) [\[Dataset\]](#)

Published, *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2022

Jianqi Chen, Keyan Chen, Hao Chen, Zhengxia Zou, and Zhenwei Shi

SELECTED PROJECTS & RESEARCH

Research on 4D (Human Motion) Generation

Nov 2023 – Aug 2024

Remote Research Intern – Pytorch

MBZUAI

- Research on generating human motions within a 3D indoor scene. Develop a natural and versatile 4D generation method, based on the knowledge of technologies including human representation, 3D scene representation, reinforcement learning, and conditional generative models.

Research on Model Robustness

Mar 2022 – Dec 2023

Research – Core Member – Pytorch

LEVIR Group

- For the model robustness, explore imperceptible adversarial samples, and black-box transferable adversarial samples. Proposed strong and powerful imperceptible and transferable adversarial samples based on Diffusion Models. [\[Link\]](#)
- For the defense, explore adversarial training and defensive structure design. In CVPR 2022 The Art of Robustness Challenge, won the 5th place in Track I (Classification Task Defense), and the 6th place in Track II (Open Set Defense). [\[Link\]](#)

Research on Clothes Virtual Try-On

May 2023 – Aug 2023

Research Intern – Pytorch

SenseTime Research

- Work on fashion clothes try-on. Develop robust and high-quality fashion clothes try-on methods, based on the knowledge of technologies like text-to-image synthesis, image inpainting, large vision models, and fine-tuning strategy.

Research on High Resolution Harmonization and Zero-Shot Harmonization

Jun 2022 – July 2023

Personal Research – Pytorch

LEVIR Group

- Leveraged Implicit Neural Representation to meet the needs of ultra-high resolution image harmonization for real-world scenarios ($\geq 6K$ resolution). [\[Link\]](#)
- Proposed a zero-shot image harmonization algorithm based on Diffusion Models, aiming at the problem that the current methods have a heavy demand for large datasets. [\[Link\]](#)

Gaofen Series Satellite Data Processing Software

Apr 2021 – Jun 2023

Project – Core Member – C++ & Linux

LEVIR Group

- Built a data processing software system with C++ to ensure that the memory usage and data processing speed meet the requirements.
- Participated in the whole process of code construction, system testing, module joint debugging, and logistics support as the core member in charge of an 8-people team.

SELECTED HONORS

Outstanding Reviewer Award of CVPR 2026 (Top 5%)	May 2026
Outstanding Graduates of Beijing Municipality	Jan 2024
”Postgraduate Excellent Academic Innovation Achievement Award” of Beihang University	Jun 2023
National Scholarship, Ministry of Education of China	Sep 2022
Graduate Entrance Scholarship of Beihang University	Sep 2021
Outstanding Graduates of Beihang University	Jun 2021
First Prize of “Innovation and Entrepreneurship Scholarship”	Dec 2020
Special Prize of “Outstanding Academic Performance”, Beihang University	Dec 2020
First Prize of “Lee Kum Kee Astronautics Scholarship”, Beihang University	Nov 2020
Second Prize in China College Students’ “Internet+” Innovation and Entrepreneurship Competition	Sep 2020

SKILLS

Programming Language: Python, C++, Matlab, HTML/CSS, etc

Language: Mandarin (*native*), English (*IELTS 7.5*), German (*beginner*)