

Shenhan Qian

Ph.D. student @ TU Munich

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Education

Technical University of Munich	Oct 2022 - Present
Ph.D. student, supervisor: Prof. Daniel Cremers	
ShanghaiTech University	Jun 2022
M.Sc. Computer Science, supervisor: Prof. Shenghua Gao	
GPA 3.59/4.0 (awarded Outstanding Graduate of Shanghai)	
Hunan University	Jun 2019
B.Sc. Electrical Engineering and Control Systems	
GPA 3.71/4.0 (top 4%, awarded First-Class Scholarship for three consecutive years)	

Publications

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- GaussianAvatars: Photorealistic Head Avatars with Rigged 3D Gaussians**
[Shenhan Qian](#), Tobias Kirschstein, Liam Schoneveld, Davide Davoli, Simon Giebenhain, Matthias Nießner
Conference on Computer Vision and Pattern Recognition (CVPR), 2024 ([Highlight](#), [11.9% of accepted papers](#))
- NeRSemble: Multi-view Radiance Field Reconstruction of Human Heads**
Tobias Kirschstein, [Shenhan Qian](#), Simon Giebenhain, Tim Walter, Matthias Nießner
Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH), 2023
- Dual-Space NeRF: Learning Animatable Avatars and Scene Lighting in Separate Spaces**
Yihao Zhi*, [Shenhan Qian*](#), Xinhao Yan*, Shenghua Gao
International Conference on 3D Vision (3DV), 2022
- UNIF: United Neural Implicit Functions for Clothed Human Reconstruction and Animation**
[Shenhan Qian](#), Jiale Xu, Ziwei Liu, Liqian Ma, Shenghua Gao
European Conference on Computer Vision (ECCV), 2022
- Feature Re-Representation and Reliable Pseudo Label Retraining for Cross-Domain Semantic Segmentation**
Jing Li, Kang Zhou, [Shenhan Qian](#), Wen Li, Lixin Duan, Shenghua Gao
Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022
- Speech Drives Templates: Co-Speech Gesture Synthesis with Learned Templates**
[Shenhan Qian*](#), Zhi Tu*, Yihao Zhi*, Wen Liu, Shenghua Gao
International Conference on Computer Vision (ICCV), 2021
- KGDet: Keypoint-Guided Fashion Detection**
[Shenhan Qian*](#), Dongze Lian*, Binqiang Zhao, Tong Liu, Bohui Zhu, Hai Li, Shenghua Gao
AAAI Conference on Artificial Intelligence (AAAI), 2021
- Learning to Recommend Frame for Interactive Video Object Segmentation in the Wild**
Zhaoyuan Yin*, Jia Zheng*, Weixin Luo, [Shenhan Qian](#), Hanling Zhang, Shenghua Gao
Conference on Computer Vision and Pattern Recognition (CVPR), 2021

Projects

DeepFashion2 Challenge (CVPR 2020 Workshop)	Apr 2020
3rd Place in the Landmark Estimation Track	

Combined a multi-stage detector (HTC) and a landmark estimator (HRNet) to detect clothing landmarks in a top-down manner. Adopted weighted sampling strategies to deal with the imbalanced data distribution.

Lane Detection with an Instance Segmentation Approach May 2019
Bachelor's Thesis

Re-implementation of LaneNet with instance segmentation, perspective transformation, and curve fitting.

College Student Electronics Design Contest of Hunan Province Aug 2018
1st Prize

Built a twin-rotor UAV that can take off, land, and hover steadily. Composed the UAV with 3d-printed parts, microcontrollers, and sensors. Achieved the highest precision of hovering height among all teams.

National College Student Electronics Design Contest Aug 2017
2nd Prize in Hunan Province

Built a tilting board system to control the movement of a ball on the board with microcontrollers, servos, and a camera. Accomplished smooth and flexible trajectory control.

Services

Conference Reviewer
SIGGRAPH Asia 2024, ECCV 2024, CVPR 2023-2024, ICCV 2023, WACV 2023

Journal Reviewer
TPAMI, TVCG, CGF

Teaching

Introduction to Deep Learning (IN2346)	2024-2025 WS
Master Seminar - Neural Radiance Fields (IN2107, IN4499)	2023-2024 SS
Master Seminar - Neural Radiance Fields (IN2107, IN4499)	2022-2023 WS

Awards

Outstanding Graduate of Shanghai	Jun 2022
Merit Student of ShanghaiTech University	Jan 2022
China National Scholarship	Oct 2021
First-Class Scholarship of Hunan University	2016-2018

Experiences

ZMO.AI	Jul 2021 – Dec 2021
<i>Computer Vision Research Intern</i>	
Articulated human body reconstruction and re-rendering in novel views and poses.	
GPU Cluster Administration Team of ShanghaiTech University	Sep 2019 – Jun 2021
<i>Assistant System Administrator</i>	
Maintaining hardware and software of a distributed GPU cluster, improving a system-monitor website.	