Shenhan Qian

PhD student @ TU Munich

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Education

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

NeRSemble: Multi-view Radiance Field Reconstruction of Human Heads

Tobias Kirschstein, <u>Shenhan Qian</u>, Simon Giebenhain, Tim Walter, Matthias Nießner

SIGGRAPH 2023

Dual-Space NeRF: Learning Animatable Avatars and Scene Lighting in Separate Spaces

Yihao Zhi*, <u>Shenhan Qian</u>*, Xinhao Yan*, Shenghua Gao

International Conference on 3D Vision (3DV), 2022

UNIF: United Neural Implicit Functions for Clothed Human Reconstruction and Animation

<u>Shenhan Qian</u>, 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, <u>Shenhan Qian</u>, 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

<u>Shenhan Qian</u>*, Zhi Tu*, Yihao Zhi*, Wen Liu, Shenghua Gao

International Conference on Computer Vision (ICCV), 2021

KGDet: Keypoint-Guided Fashion Detection

<u>Shenhan Qian</u>*, 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, <u>Shenhan Qian</u>, 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.

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

    Computer Vision Research Intern

    Articulated human body reconstruction and re-rendering in novel views and poses.

GPU Cluster Administration Team of ShanghaiTech University   Sep 2019 – Jun 2021

    Assistant System Administrator

    Maintaining hardware and software of a distributed GPU cluster, improving a system-monitor website.