

Jiaqi Tan

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Education

Simon Fraser University, Canada

Sep. 2019 - Now

MASTER OF SCIENCE, COMPUTING SCIENCE (88.7/100.0)

Shenzhen University, China

Sep. 2015 - June. 2019

BACHELOR DEGREE, COMPUTER SCIENCE (85.1/100.0)

Publications

Mirror3D: Depth Refinement for Mirror Surfaces

Paper | Video | Website

JIAQI TAN, WEIJIE LIN, ANGEL X. CHANG, MANOLIS SAVVA

Conference on Computer Vision and Pattern Recognition (CVPR), 2021

Selecting the Effective Regions for Gait Recognition by Sparse Representation

Paper

JIAQI TAN, JIAWEI WANG, SHIQI YU

Chinese Conference of Biometric Recognition (CCBR), 2018

Work Experience

Mirror3D: Depth Refinement for Mirror Surfaces

Simon Fraser University

MASTER STUDENT, SUPERVISOR: **MANOLIS SAVVA**

Sep. 2020 - Now

- Proposed and benchmarked RGB and RGBD based 3D mirror plane prediction
- Designed a simple 3D mirror prediction architecture to refine depth at mirror area
- Generated perspective images, 3D meshes and point clouds from Structure3D synthetic panoramas

Gait Recognition

Shenzhen University

UNDERGRADUATE, SUPERVISOR: **SHIQI YU**

March. 2018 - June. 2019

- Used SVD to improve the gait recognition accuracy under clothing and carry-on occlusion by 20%
- Publication: Selecting the Effective Regions for Gait Recognition by Sparse Representation

Human Body Detection and Emotion Recognition

SenseTime lab

RESEARCH INTERN, SUPERVISOR: **CHENHAO LIN**

Feb. 2019 - June. 2019

- Pruned resnet50 to one-eighth of total model parameters to reduce with negligible drop in performance
- Added negative samples and fine-tuned NMS threshold to improve precision and recall

Multi-label Classification and Object Detection

SenseTime lab

RESEARCH INTERN, SUPERVISOR: **CHENHAO LIN**

Oct. 2018 - Feb. 2019

- Used loss function from Gradient Harmonized Single-stage Detector to balance hard and easy samples
- Preprocessed data to improve metrics such as mean average precision, recall and Top-5 accuracy

Honors & Awards

- 2019 Recipient of excellent thesis award, Shenzhen University
- 2017-18 Recipient of Shuangchuang Scholarship, Shenzhen University
- 2017 Recipient of Star Student Scholarship, Shenzhen University
- 2017 Recipient of National Scholarship, China Scholarship Council

Position of Responsibility

Shenzhen University Hip Hop Club

Shenzhen University

COORDINATOR

June. 2016 - June. 2017

- Organized renowned dance events like SZU Hip Hop Club opening event, SZU Hip Hop Club YA, etc
- Collected and managed funding from outside organization (Red Bull, Shenzhen BBR club, etc)