Hao **Sun**

Master Student · Computer Vision · Medical Image Processing

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"Aut Caesar,aut nihil."

Summary

I am currently a master student at Tokyo Institute of Technology, supervised by Prof. Kenji SUZUKI. I received my B.Eng degree from the School of Computer Science and Technology, Zhejiang University in 2021. At that time, I am also a member of Chu Kochen Honors College. During the university, I also minored in Religious Philosophy, Zhejiang University. Now my main research interest lies in medical image processing, dose reduction for CT.

Work Experience

Fenlai Intelligent Co.,Ltd. *ShenZhen, China*

Computer Vision Algorithm Engineer (Internship) *Mar.2021 - Jun.2021*

- Smart gym based on computer vision technology.I am responsible for the overall architecture design and algorithm implementation of the group exercise project, and realize the multi-person real-time group exercise scoring and action correction system.
- Edge deployment of deep learning models and load balancing system.

Hikvision Co.,Ltd. *HangZhou, China*

Computer Vision Algorithm Engineer (Internship) *Sep.2021 - Oct.2021*

- Investigate video-based pedestrian re-identification technology.

Honors & Awards

International

2022 **IIR Research Fellow**, Institute of Innovative Research (IIR),Tokyo Institute of Technology *Tokyo, Japan*

Domestic

2018 **2rd Scholarship**, Zhejiang University *HangZhou, China*

Research Project

3D hair modeling from 2D sketches *Zhejiang University CAD/CG Lab*

Researcher *2020.7*

- Given a 3D bust model as reference, our sketching system takes as input a user-drawn sketch (consisting of hair contour and a few strokes indicating the hair growing direction within a hair region), and automatically generates a 3D hair model, matching the input sketch.

Virtual high dose CT image reconstruction based on paired low dose and high dose CT image *Kenji Suzuki Laboratory*

Researcher *2021.12*

- Use paired CT images to train Massive Training Artificial Nerual Network to reduce artifacts and noise in low-dose CT images, enhance image quality, and assist doctors in diagnosis.

Fluorescence Images for Enhancing Proteins *Kenji Suzuki Laboratory*

Researcher *2022.4*

- Confidential Project

Education

ZheJiang University *HangZhou, China*

B.ENG in Computer Science and Engineering *Sep. 2017 - Jul.2021*

- Selected as a member of Chu Kochen Honors College and won the 2rd scholarship of Zhejiang University.

Tokyo Institute of Technology *Tokyo, Japan*

M.ENG in Information and Communication Engineering *Sep. 2021 - Jul.2023*

- Research Fellow from Institute of Innovative Research(IIR)