

HAOJI ZHANG

RESEARCH EXPERIENCE

Department of Automation, Tsinghua University 2022.09 - Present

Internship in Computer Vision

Laboratory of Intelligent Technology and Systems, Tsinghua University 2021.09 - 2022.09

Internship in Computer Vision

EDUCATION EXPERIENCE

Tsinghua University 2020.09 - Present

B.S. in Mathematics and Physics + Materials Science and Engineering

- **Academic Performance: GPA 3.96 / 4.00**
- **Language Proficiency: CET-6 572 / 710**
- **Language Proficiency: TOEFL 97 / 120 (28 + 23 + 22 + 24)**
- **Academic English: GRE 329 / 340 (4.5 / 6)**

PROJECT EXPERIENCE

Efficient Action Recognition Model 2022.09 – Present

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- Demonstrate that spatial redundancy and temporal redundancy are obstacles to improve the network efficiency. Design a temporal center predict network to reduce the temporal redundancy.
- Design and conduct some experiments to improve the efficiency of action recognition model AdaFocus-V2.
- Reduce the calculation complexity to 60% with no performance drop up to now.

3D-aware Image Attribute Editing 2022.03 – 2022.08

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- Implement some part of code and conduct experiments to generate edited images.
- Develop a web preview interface and organize user study to judge the performance of different methods.
- Finish a paper as the 3rd author, which is submitted to CVPR2023.

Deepfake Detection System 2021.09 – 2022.02

Leader of a Student Research Training program

- Reproduce 3 state-of-the-art models of top papers. Finish the training and finetune of deepfake detection models.
- Develop a web preview interface of deepfake video detection.
- Study a novel half-supervised training with CLIP pre-trained model, for automatic annotation generation.

SKILLS

- Programming Languages: **C, C++, Python, Java, Matlab, Swift, Objective-C**
- Hardware Programming Languages: **VerilogHDL, Modelsim**
- Deep Learning: **Pytorch, Torchvision, DistributedDataParallel**
- Web Development: **Html/CSS, JavaScript, Vue, Flask, Nginx**
- Database: **MySQL**

HONORS AND AWARDS

Excellent Comprehensive Scholarship of Tsinghua University 2022.10

Honorable Mention (MCM/ICM) 2022.05

Excellent Comprehensive Scholarship of Tsinghua University 2021.10