# Chuhao Zhou

(86)138-8181-3524 | zhouchuhao99@gmail.com | github.com/ChuhaoZhou99

# **EDUCATION**

## School of Mechanical and Aerospace Engineering, Nanyang Technological University

PhD Candidate

Aug 2024 - Present

➤ Awards: NTU Research Scholarship (2024).

#### School of Computer Science, Harbin Institute of Technology

Master of Engineering

Sep 2021 - Jan 2024

- **▶ GPA:** 3.72/4.00 (Top 3% in 60 students).
- ➤ Awards: National Scholarship (2023, Top 1% in 176 students), HIT 1st Academic Scholarship\*3 (2020-2021/2021-2022/2022-2023, top 5% in the department)).

## School of Computer Science, Harbin Institute of Technology

Bachelor of Engineering

Aug 2017 - Jul 2021

- ▶ **GPA:** 3.91/4.00 (Top 3% in 118 students).
- ➤ Awards: HIT 2nd Academic Scholarship\*3 (2017-2018/2018-2019/2019-2020, top 10% in the department), Outstanding Graduate Award of HIT (2021, top 5% in the department).

#### Publications

- [1] Chuhao Zhou, Jinxing Li, Huafeng Li, Guangming Lu, Yong Xu, and Min Zhang. 2023. Video-based Visible-Infrared Person Re-Identification via Style Disturbance Defense and Dual Interaction. In *Proceedings of the 31th ACM International Conference on Multimedia (MM'23*, Oral).
- [2] Jinxing Li<sup>†</sup>, **Chuhao Zhou**<sup>†</sup>, Xiaoqiang Ji, Mu Li, Guangming Lu, Yong Xu, and David Zhang. 2023. Multi-view Instance Attention Fusion Network for Classification. *Information Fusion*. († means 'Equal Contribution'.)
- [3] Jinxing Li, **Chuhao Zhou**, Huafeng Li, Xinyu Lin, Guangming Lu, Yong Xu, Liqiang Nie, and Min Zhang. 2023. Soft Supervision Guided Spatial-Temporal Refinement Network For Video-based Visible-Infrared Person Re-Identification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*. (Under Review.)

## Research Experience

#### Video-based Cross-modal Person Re-ID | HITSZ | Researcher

May 2022 - Jan 2024

Advisor: Jinxing Li, associate professor at School of Computer Science, HITSZ

Guangming Lu, professor and associate dean at School of Computer Science, HITSZ

- ➤ Created a large-scale video-based cross-modal person Re-ID dataset named HITSZ-PVCM, alleviated the overfitting problem in the Re-ID task and boosted performance through fine-grained details enhancement.
- > Proposed a novel method named SAADG to simultaneously alleviate the intra- and inter-modal discrepancies by an adversarial strategy from the novel style disturbance perspective, and designed a graph-based interaction module to further capture the cross-view and cross-modal complementary information. I proposed the ideas of the paper and carried out most of the experiments. (Paper accepted by MM'23, Oral.)
- > Further improved the SAADG by enhancing the body parts features and designing a novel identification strategy.

#### Multi-view Representations Learning | HITSZ | Researcher

May 2021 – Apr 2022

Advisor: Jinxing Li, associate professor at School of Computer Science, HITSZ

Guangming Lu, professor and associate dean at School of Computer Science, HITSZ

▶ Designed a novel network to promote the task of multi-view representation learning, exploited the additionally valuable information by instance-based learning, and proposed a algorithm to select noise-free template instances.

# TECHNICAL SKILLS

Standard English Tests: TOEFL: Total 105 (Reading 29, Listening 26, Speaking 23, Writing 27).

Coding & Frameworks: Proficient in utilizing PyTorch to build various fundamental models (ResNet, FPN network, U-net, and Vision Transformer, etc.) and establish the customized model architectures. Proficient in implementing various widely used machine learning algorithms in Python, such as K-means, DBSCAN, SVM, etc.

Academic Skills: Proficient in the utilization of LaTex, scientific figures drawing through Visio, and visualization technologies including t-SNE, GradCam, etc.