Yang Fu

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 https://github.com/aleeyang

Education

Beijing Normal University (BNU) — Expected graduation date: Jun. 2025
Master in Computer Application Technology — *GPA: 3.4/4.0*

Xihua University (XHU) — 2018 - 2022
Bachelor in Computer Science and Technology — *GPA: 88.44/100*

Publications

- **Cut out the Middleman: Revisiting Pose-based Gait Recognition.**
  Yang Fu, Saihui Hou, Shibe Meng, Xuecai Hu, ChunshuiCao, Xu Liu, Yongzhen Huang. The 18th European Conference on Computer Vision (ECCV), 2024.
- **GPGait: Generalized Pose-based Gait Recognition.**
  Yang Fu, Shibe Meng, Saihui Hou, Xuecai Hu, Yongzhen Huang. The Thirty Fourth IEEE/CVF Conference on International Conference on Computer Vision (ICCV), 2023.
- **Gait Recognition with Drones: A Benchmark.**
  Aoqi Li, Saihui Hou, Qingyuan Cai, **Yang Fu**, Yongzhen Huang. IEEE Transactions on Multimedia (TMM), 2023.
- **FastPoseGait: A Toolbox and Benchmark for Efficient Pose-based Gait Recognition.**
  Shibei Meng, **Yang Fu**, Saihui Hou, Xuecai Hu, Yongzhen Huang. *Technical Report*, 2023.
- **Bridging the Past and Future: In Defense of Pose-based Gait Recognition**
  Shibei Meng, **Yang Fu**, Saihui Hou, Xuecai Hu, Yongzhen Huang. *TPAMI Under Review (Major Revision)*

Research Internship

WATRIX.AI — Feb. 2022 - Feb. 2023
Research Intern

- Worked on improving the generalization ability of pose-based Gait Recognition.

MIT-IBM Watson AI Lab — Feb. 2024 - Ongoing
Research Intern (advised by Chuang Gan)

- Worked on human video generation using diffusion model and construct a large human video dataset .

Selected Honors and Awards

Graduate Academic Innovation Award

National Scholarship (Graduate)

National Scholarship (Undergraduate)

Outstanding graduate of Sichuan Province

HID2022 - First Prize
The 3rd International Competition on Human Identification at a Distance 2022

MGR2024 - First Prize
The ACM MM'24 Multimodal Gait Recognition (MGR) Challenge

Project

FastPoseGait (Github)   Jun. 2023 - Ongoing

Project Lead

- FastPoseGait is a user-friendly and flexible repository that aims to help researchers get started on pose-based gait recognition quickly.
- Responsible for the development, implementation, and maintenance of the code framework, as well as the creation and improvement of various modules and algorithms.

Awesome-Gait-Recognition (Github)   Mar. 2023 - Ongoing

Project Lead

- A curated list of Gait Recognition and related area resources.
- Responsible for building and maintaining the resources.

Towards Language Guidance Gait Recognition   Mar. 2024 - Ongoing

Project Lead

- Construct a large-scale fine-grained human motion and attribute description dataset
- Use the created dataset to train a multimodal captioning model for larger-scale data annotation

A Study on Gait Recognition from Unmanned Aerial Vehicle Perspective. Jan. 2023 - Jun. 2024

Project Participant

- Develop data collection plan and algorithm design based on practical requirements.

Generalization Ability of Gait Recognition based on Self-Supervised Learning. Oct. 2023 - Ongoing

Project Participant

- Propose solutions for the existing generalization problem.

Professional Services

Journal Reviewer:

Pattern Recognition
IEEE Transactions on Multimedia (TMM)

Skills

Languages:

Python, C++, SQL, HTML, JavaScript, Bash, Blender

Technologies & Tools:

Git, Linux, Docker