Jifei Luo

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EDUCATION

University of Science and Technology of China — Sep. 2022 – Present
Master of Electrical Engineering — *Anhui, China*

University of Science and Technology of China — Sep. 2018 – May 2022
School of the Gifted Young, Bachelor of Electrical Engineering — *Anhui, China*
Talent Program in Artificial Intelligence

AWARDS

- Outstanding Freshman Scholarship, First Prize   2022 Fall
- Excellent Student Scholarship, Bronze Award   2020 Fall
- African Alumni Association Zhou Zhili Scholarship   2019 Fall
- Outstanding Freshman Scholarship, Bronze Award   2018 Fall

COURSEWORK

Machine Learning, Parallel Computing, Principle of Compilation, Graph Theory, Operation Research, Computer Networking, Linear Algebra, Functional Analysis, Real Analysis, Algorithm Principle, Signal and System, Mathematical Analysis

EXPERIENCE

Research Assistant — Aug. 2023 – Present
Institute of Automation, Chinese Academy of Science, Advisor: Hantao Yao, Changsheng Xu — *Beijing, China*
- We proposed a very novel method to solve the reranking problem with Markov Random Fields, it has achieved very good performance in various retrieval and ranking tasks. A working paper would be submitted to CVPR 2024.

Research Assistant — Sep. 2022 – May. 2023
University of Science and Technology of China, Advisor:Wengang Zhou, Houqiang Li — *Anhui, China*

Undergraduate Research Assistant — Feb. 2022 – Aug. 2022
Institute of Automation, Chinese Academy of Science, Advisor: Hantao Yao, Changsheng Xu — *Beijing, China*
- When deploying the ReID algorithm in real world scenarios, the ability to generalize would degrade due to many aspects of constraints. We proposed a novel Identity Knowledge Evolution (IKE) framework for Camera Incremental Object Re-Identification task, which can continually optimizing the ReID model from the incoming stream of the camera datasets.

Teaching Assistant — Sep. 2021 - Jan. 2022
University of Science and Technology of China — *Anhui, China*
- TA for Operations Research (OR). Graded homework and exams, gave lectures on exercises.

Undergraduate Research Assistant — Dec. 2020 – May. 2021
University of Science and Technology of China, Advisor: Sen liu, Zhibo Chen — *Anhui, China*
- Reproduced an experiment called EDVR(Video Restoration with Enhanced Deformable), which is an unified framework suited for various video restoration tasks. I modified and applied this method to repair old video clips.

PUBLICATIONS

Hantao Yao, **Jifei Luo**, Lu Yu and Changsheng Xu, "Camera-Incremental Object Re-Identification with Identity Knowledge Evolution", submitted to International Journal of Computer Vision (IJCV), 2023.

TECHNICAL SKILLS

Languages: Python, LaTeX, C/C++, Matlab, HTML
Developer Tools: VS Code, Visual Studio, PyCharm, Git, Premiere
Libraries: NumPy, PyTorch, FFmpeg, OpenCV, Pandas