

XIN JIN

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EDUCATION

Chongqing Technology and Business University (CTBU), China <i>Software Engineering</i>	Sept. 2022 - Present Master
Pass College of Chongqing Technology and Business University, China <i>Internet of Things Engineering</i>	Sept. 2018 - June 2022 Bachelor

PROJECTS & RESEARCH EXPERIENCE

Chongqing Institute of Financial Technology: Vein Identification • Building a 3D view Finger vein dataset. 🐙 Database • Skills for installing vein recognition door locks. • Optimizing algorithms for vein classification systems.	July 2023 – Sept. 2023
Chongqing Intelligence Perception and Block Chain Technology Key Lab • Studying Data Augmentation and Palm Vein, supervised by Prof. Huafeng Qin.	Sept. 2022 – Sept. 2023
CAIRI AI Lab, Westlake University, Research Intern • Studying Mixup and Multi-modal Large Language, supervised by Siyuan Li and Prof. Stan Z. Li.	Mar. 2024 – June. 2025
Encode Lab, Westlake University, Research Assistant • Efficient AI, supervised by Prof. Huan Wang.	June. 2025 – July. 2026

SELECTED PUBLICATIONS (* denotes equal contribution, † denotes corresponding author.)

Mixup Augmentation

A Survey on Mixup Augmentations and Beyond 🐙 Awesome list <u>Xin Jin</u> [*] , Hongyu Zhu [*] , Siyuan Li [*] , Zedong Wang, Zicheng Liu, Chang Yu, Huafeng Qin, Stan Z. Li [†] .	arXiv, 2024
StarLKNet: Star Mixup with Large Kernel Networks for Palm Vein Identification <u>Xin Jin</u> [*] , Hongyu Zhu [*] , Mounîm A. El-Yacoubi, Hongchao Liao, Huafeng Qin, Yun Jiang [†] .	arXiv, 2024
SUMix: Mixup with Semantic and Uncertain Information 🐙 Code Huafeng Qin ^{*,†} , <u>Xin Jin</u> [*] , Hongyu Zhu, Hongchao Liao, Mounîm A. El-Yacoubi, Xinbo Gao.	ECCV, 2024
Adversarial AutoMixup (Spotlight, rate 5%) 🐙 Code Huafeng Qin ^{*,†} , <u>Xin Jin</u> [*] , Yun Jiang, Mounîm A. El-Yacoubi, Xinbo Gao.	ICLR, 2024

(M)LLMs Optimization

Taming LLMs by Scaling Learning Rates with Gradient Grouping Siyuan Li [*] , Juanxi Tian [*] , Zedong Wang [*] , <u>Xin Jin</u> , Zicheng Liu [†] , Wentao Zhang, Dan Xu	ACL, 2025
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Biometric Identification

EM-DARTS: Hierarchical Differentiable Architecture Search for Eye Movement Recognition Huafeng Qin [†] , Hongyu Zhu, <u>Xin Jin</u> , Xin Yu [†] , Mounîm A. El-Yacoubi, Shuqiang Yang	TIM, 2025
EmMixformer: Mix Transformer for Eye Movement 🐙 Database Huafeng Qin, Hongyu Zhu, <u>Xin Jin</u> , Qun Song, Mounîm A. El-Yacoubi, Xinbo Gao.	TIM, 2025
RelaxDARTS: Relaxing the Constraints of Differentiable Architecture Search for Eye Movement Recognition (Oral) Hongyu Zhu [*] , <u>Xin Jin</u> [*] , Hongchao Liao, Yan Xiang, Mounîm A. El-Yacoubi, Huafeng Qin [†] .	CCBR, 2024
GANet: Gabor Attention Aggregation Network for Palmvein Identification (Oral) Hongchao Liao, <u>Xin Jin</u> , Hongyu Zhu, Yuming Fu, Mounîm A. El-Yacoubi, Huafeng Qin [†] .	HSI, 2024

COMPETITION HONORS

Challenge Cup of “Qin Chuang Yuan”	National 2nd prize
The 14th Challenge Cup	Provincial 2nd prize
China International Student Innovation Competition	Provincial 2nd prize
The 7th Art Exhibition for College Students in Chongqing	Provincial 1st prize
The 7th Innovation and Entrepreneurship Competition	School 2nd prize
The 3rd Annual “Best of Libraries”	School 1st prize

ADDITIONAL ACHIEVEMENTS

Programming language: C/C++, Java, Python, Pytorch, LaTeX

Platform: Windows, Linux

Languages: Mandarin (Native), English (CET-6)

Hobbies: Photography, Hiking