

JINRUI ZHANG

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✍ WORK EXPERIENCE

Tsinghua University Beijing 2024.01 – now
Postdoctoral Researcher. Department of Computer Sci. & Tech. Collaborative Supervisors: Academician Yao Zhang and Professor Ju Ren

🎓 EDUCATION

Central South University, Changsha, China 2018 – 2023
Ph.D. in Computer Science, Supervisor: Academician Yao Zhang

Seoul National University, Seoul, South Korea 2022 – 2023
Joint Ph.D. in Computer Science, Supervisor: Prof. Youngki Lee

Central South University, Changsha, China 2016 – 2018
M.S. in Computer Science, Supervisor: Academician Yao Zhang

Central South University, Changsha, China 2012 – 2016
B.S. in Automation Engineering.

📄 PUBLICATION(*CORRESPONDING AUTHOR)

1. **Jinrui Zhang**, Congyin Zhou, Huan Yang, Deyu Zhang, Ju Ren, and Yaoxue Zhang, “Heterogeneous Parallel Acceleration for Edge Intelligence Systems: Challenges and Solutions”, *IEEE Consumer Electronics Magazine*. (JCR Q1)
2. **Jinrui Zhang**, Huan Yang, Ju Ren, Deyu Zhang, Bangwen He, Youngki Lee, Ting Cao, Yuanchun Li, Yaoxue Zhang, and Yunxin Liu, “HiMoDepth: Efficient Training-free High-resolution On-device Depth Perception”, *IEEE Transactions on Mobile Computing(TMC)*, 2023. (CCF A)
3. **Jinrui Zhang**, Huan Yang, Ju Ren, Deyu Zhang, Bangwen He, Ting Cao, Yuanchun Li, Yaoxue Zhang, and Yunxin Liu, “MobiDepth: Real-Time Depth Estimation Using On-Device Dual Cameras”, *ACM MobiCom*, 2022. (CORE A*, CCF A)
4. **Jinrui Zhang**, Deyu Zhang, Huan Yang, Yunxin Liu, Ju Ren, Xiaohui Xu, Fucheng Jia, and Yaoxue Zhang, “MVPose: Realtime Multi-Person Pose Estimation Using Motion Vector on Mobile Devices”, *IEEE Transactions on Mobile Computing(TMC)*, 2021. (CCF A)
5. **Jinrui Zhang**, Deyu Zhang, Xiaohui Xu, Fucheng Jia, Yunxin Liu, Xuanzhe Liu, Ju Ren, and Yaoxue Zhang, “MobiPose: Real-time multi-person pose estimation on mobile devices,” *ACM SenSys*, 2020. (CORE A*, CCF B)
6. Ye Zhang, **Jinrui Zhang***, Sheng Yue, Wei Lu, Ju Ren, and Xuemin Shen, “Mobile Generative AI: Opportunities and Challenges”, *IEEE Wireless Communications*, 2024. (JCR Q1)
7. Wenxin Chen, **Jinrui Zhang***, and Deyu Zhang, “FL-Joint: Joint Aligning Features and Labels in Federated Learning for Data Heterogeneity”, *Complex & Intelligent System*, 2024. (JCR Q1)
8. Yin Tang, Wei Luo, **Jinrui Zhang**, Wei Huang, Ruihai Jing, and Deyu Zhang, “MultiCounter: Multiple Action Agnostic Repetition Counting in Untrimmed Videos”, *ECAI*, 2024. (CCF B)
9. Taeho Kang, Kyungjin Lee, **Jinrui Zhang**, and Youngki Lee, “Ego3DPose: Capturing 3D Cues from Binocular Egocentric Views”, *ACM SIGGRAPH Asia*, 2023. (CORE A*, CCF A)
10. Wei Luo, Deyu Zhang, **Jinrui Zhang**, Bangwen He, Wang Sun, Huan Yang, and Ju Ren, “MBSeg: Real-Time Contour-Based Method Instance Segmentation for Egocentric Vision”, *IEEE Internet of Things Journal(IoT-J)*, 2023. (JCR Q1)

11. Xiaohui Xu, Sijing Duan, **Jinrui Zhang**, Yunzheng Luo, and Deyu Zhang, “Optimizing Federated Learning on Device Heterogeneity with A Sampling Strategy”, **IEEE IWQoS**, 2021. (CCF B)

INTERNSHIP EXCHANGE EXPERIENCE

- **Institute for AI Industry Research, Tsinghua University Beijing** Sept.2021 – May.2025
Co-supervisor: Prof. Yunxin Liu
- **Microsoft Research Asia(MSRA) Beijing** Sept.2019 – Mar.2020
Co-supervisor: Prof. Yunxin Liu
- **Peking University Beijing** Mar.2019 – Aug.2019
Co-supervisor: Prof. Xuanzhe Liu

FUNDING

- **Young Scientists Fund of the National Natural Science Foundation of China**, Grant No.62402270, **Host**, Jan.2025 – Dec.2027
- **Tsinghua University - Honor Technology Collaboration and Development Project, Project Leader**, Sept.2024 – Sept.2025
- **National Natural Science Foundation of China**, Grant No.62172439, Core Participating Members, Jan.2022 – Dec.2025
- **Major Project of Hunan Provincial Natural Science Foundation**, Grant No.2021JC0004, Core Participating Members, Jan.2022 – Dec.2024

HONOR AND AWARD

- **National-Level:**
 - Postdoctoral Fellowship Program of CPSF 2024
 - China Scholarship Council(CSC) Scholarship 2021
 - The **National First Prize** in the 10th National Intelligent Car Competition 2015
 - **Meritorious Winner** in the Mathematical Contest in Modeling (MCM) 2015
- **Provincial-Level**
 - **First Prize** at the 2nd Hunan Province Postgraduate Artificial Intelligence Competition 2021
 - **Champion** of the Southern Region Competition in the 10th Freescale Intelligent Car Contest 2015
 - **First Prize** at the 7th Hunan Province “Times Cup” Intelligent Vehicle Competition 2015
 - **Second Prize** at the 6th Hunan Province “Times Cup” Intelligent Vehicle Competition 2014
- **University-Level**
 - Distinguished Doctoral Graduate from Central South University 2023
 - Outstanding Doctoral Candidate at Central South University 2022
 - **Top Ten** Excellent Graduate Student Cadre Model of Central South University 2021
 - First-class Academic Scholarship 2018-2022
 - “Transparent Computing” Encouragement Scholarship 2021
 - Distinguished Undergraduate Graduates from Central South University 2016

SERVICE

- **Conference Reviewers**
 - IEEE International Conference on Computer Communications (INFOCOM)
 - The 10th International Conference on Big Data Computing and Communications (BigCom2024)

- **Journal Reviewers**

- ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)
- IEEE TRANSACTIONS ON MOBILE COMPUTING (TMC)
- IEEE Internet of Things Journal (IoT-J)

- **Others**

- President of the Graduate Student Association at the School of Computer Science, Central South University