MINGFENG ZHA

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RESEARCH INTEREST

- My recent research interests include multimodal learning and causal inference.
- I previously worked on inconspicuous objects segmentation (*e.g.*, mirror, glass, and camouflaged object).

EDUCATION

Master of Computer Science and Technology *University of Electronic Science and Technology of China*
Advisor: Prof. Guoqing Wang; Grade: 3.51/4; Overall Ranking: 2/400+; Expected to graduate in June 2026 *Sept 2023 to present*
Bachelor of Software Engineering *Jiangxi Agricultural University*
Advisor: Prof. Wenbin Qian; Grade: 88/100; Recommended Exemption (1/580+) *Sept 2019 to June 2023*

HONORS AND AWARDS

- 2025 - Outstanding Graduate of Sichuan Province & UESTC
- 2025 - **National Scholarship** & First Class Scholarship of UESTC
- 2025 - "Academic Youth" Postgraduate Honor Award & Outstanding Postgraduate of UESTC
- 2024 - **National Scholarship** & First Class Scholarship of UESTC
- 2023 - Star of Jiangxi Agricultural University (**Highest** honor for undergraduate students, 10 out of 20,000+)
- 2022 - Star of Self-Reliance for College Students in Jiangxi Province (**Top 0.05%**)
- 2022 - **National Scholarship**
- 2021 - National University Student Innovation and Entrepreneurship Development Program (RMB 20,000 Grant)
- 2020 - National Encouragement Scholarship
- 2019-2022 - First Class Scholarship of JXAU
- 2021 - Third Prize in the "Huashu Cup" National Mathematical Modeling Competition

SELECTED PUBLICATIONS (CITATIONS:150+)

- **Mingfeng Zha**, Guoqing Wang*, Tianyu Li, Wei Dong, Peng Wang, Yang Yang, *Seeing Beyond Illusion: Generalized and Efficient Mirror Detection*, in AAAI, 2026
- **Mingfeng Zha**, Tianyu Li*, Guoqing Wang, Peng Wang, Yangyang Wu, Yang Yang, Heng Tao Shen, *Implicit Counterfactual Learning for Audio-Visual Segmentation*, in ICCV, 2025
- **Mingfeng Zha**, Guoqing Wang*, Yunqiang Pei, Tianyu Li, Xiongxin Tang, Chongyi Li, Yang Yang, Heng Tao Shen, *Heterogeneous Experts and Hierarchical Perception for Underwater Salient Object Detection*, in IEEE TIP, 2025
- **Mingfeng Zha**, Feiyang Fu, Yunqiang Pei, Guoqing Wang*, Tianyu Li, Xiongxin Tang, Yang Yang, Heng Tao Shen, *Dual Domain Perception and Progressive Refinement for Mirror Detection*, in IEEE TCSVT, 2024
- **Mingfeng Zha**, Guoqing Wang*, Yunqiang Pei, Tianyu Li, Xiongxin Tang, Chongyi Li, Yang Yang, Heng Tao Shen, *Weakly-Supervised Mirror Detection via Scribble Annotations*, in AAAI, 2024
- **Mingfeng Zha**, Wenbin Qian*, Wenji Yang, Yilu Xu, *Multifeature Transformation and Fusion-Based Ship Detection with Small Targets and Complex Backgrounds*, in IEEE GRSL, 2022

PROJECTS

- **Mingfeng Zha**, Guoqing Wang*, Yunqiang Pei, Tianyu Li, Xiongxin Tang, Jiayi Ma, Yang Yang, Heng Tao Shen, *Think Twice Before Determining: Towards Scene-aware Visual Reasoning for Mirror Detection*, in IEEE TCSVT, Major Revision
- **Mingfeng Zha**, Tianyu Li*, Guoqing Wang, Yunqiang Pei, Chaofan Qiao, Jiening Zhang, Yang Yang, Heng Tao Shen, *Hierarchical Consistency Learning for Test-time Adaptation in Camouflage Perception*, in IEEE TIP, Under Review
- Yunqiang Pei, Jialei Tang, Qihang Tang, **Mingfeng Zha**, Dongyu Xie, Guoqing Wang*, Peng Wang, Yang Yang, Hengtao Shen, *Emotion Recognition in HMDs: A Multi-task Approach Using Physiological Signals and Occluded Faces*, in ACM MM, 2024
- Yunqiang Pei, Renming Huang, **Mingfeng Zha**, Guoqing Wang*, Peng Wang, Qiao Kang, Yang Yang Heng Tao Shen, *AttentionAR: AR Adaptation and Warning for Real-World Safety via Attention Modeling and MLLM Reasoning*, in ACM UIST, 2025
- Chaofan Qiao, Dongyu Xie, Wen Bo, Lanyue Liang, **Mingfeng Zha**, Guoqing Wang*, Tianyu Li, Yang Yang, Heng Tao Shen, *Toward Real-World RAW Blind Super-Resolution: A Novel Metadata-Integrated Approach and Benchmark*, in IEEE TMM, Under Review

PROFESSIONAL & STUDENT ACTIVITIES

Journal Review
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- Pattern Recognition (PR)

Conference Review
- ICLR 2025/2026
- AAAI 2026
- ACM MM 2024/2025

Student Service
- Head of the Student Union's Rights Department (Organized and Co-organized 15+ large-scale activities)

OTHER SKILLS

Programming: Python (PyTorch/Keras); **Languages**: CET-4/CET-6/IELTS: 6.5 (>=6); **Interested in**: City Walk/Game

INTERN & MENTORING

- China Jiangxi Radio and TV Station, Developed a news video content split system with 98%+ accuracy for practical application.
- Mentored several undergraduates and junior postgraduates in graduation projects and research activities.