Xiaole Zhao

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Western zone of chengdu high-tech zone, China Phone: $+86-15881624882 \mid QQ: 1023270208$ \bowtie zxlation@foxmail.com/zxlation@swjtu.edu.cn $\stackrel{\frown}{=}$ https://zxlation.github.io/xiaole.github.com $\stackrel{\frown}{=}$ https://github.com/zxlation/xiaole.github.com



I am an assistant professor in the School of Computing and Artificial Intelligence, Southwest Jiaotong University (SWJTU), Chengdu, China. My research interests mainly include image restoration/generation, machine/deep learning and pattern recognition etc. Recently, I have been working on low-level computer vision tasks of medical images with deep learning techniques.

	EDUCATION		
Sep. 2016 – Jun. 2020	Biomedical Engineering, The School of Life Science and Technology, — Ph.D. University of Electronic Science and Technology of China (UESTC), Chengdu, China Advisor: Prof. Mark Zou (Founder of Alltech Medical System Co., LTD) and Tao Zhang Overall GPA: 3.56/4.0, Major GPA: 3.62/4.0		
Sep. 2013 – Jun. 2016	Software Engineering, The School of Computer Science and Technology, Southwest University of Science and Technology (SWUST), Mianyang, China Advisor: Prof. Yadong Wu Overall GPA: 3.72/4.0, Major GPA: 3.70/4.0		
Sep. 2009 – Jun. 2013	Software Engineering, The School of Computer Science and Technology, Southwest University of Science and Technology (SWUST), Mianyang, China Overall GPA: 3.64/4.0, Major GPA: 3.66/4.0		
	RESEARCH EXPERIENCE		
Oct. 2021	Assistant Professor, Southwest Jiaotong University, Chengdu, China. Research: Computer Vision, Image Processing, Deep Learning, Artificial Intelligence.		
Jul. 2020 – Jan. 2021	Research Assistant, Southwest University of Science and Technology, Mianyang, China. Research: Computer Vision, Image Processing, Deep Learning, Artificial Intelligence.		
Sep. 2016 – Jun. 2020	Ph.D Candidate, University of Electronic Science and Technology of China, Chengdu, China.		
	Research: Medical Image Analysis, Magnetic Resonance Imaging, Deep Learning Project Officer, Alltech Medical System Co., LTD, Chengdu, China.		
Jun. 2020	Research: Medical Image Analysis, Magnetic Resonance Imaging, Pattern Recognition, Deep Learning		
	PROJECT PARTICIPATION		
Jan. 2019 – Dec. 2020	Key Laboratory for NeuroInformation of Ministry of Education, Chengdu, China. Supervisor: Prof. Tao Zhang Project: Research of multimodal magnetic resonance neuroimaging on the efficacy of antidepressants and the outcome mechanism of cognitive function in elderly depression Source: Key Projects of Application Foundation in Sichuan Province		
	Key Laboratory for NeuroInformation of Ministry of Education, Chengdu, China.		
Jun. 2020	Supervisor: Prof. Tao Zhang Project: A new imaging mechanism of high field magnetic resonance – tissue dielectric tomography and its application in clinical diagnosis of breast and brain tumors Source: National Key R&D Projects		
_	Laboratory of Virtual Reality and Visualization, Mianyang, China.		
Oct. 2015	Supervisor: Prof. Yadong Wu Project: Research on models and algorithms for image super-resolution reconstruction Source: Key Projects of Application Foundation in Sichuan Province		
_	Laboratory of Virtual Reality and Visualization, Mianyang, China.		
Oct. 2015	Supervisor: Prof. Yadong Wu Project: Single image super-resolution based on blind blur estimation and anchor space mapping Source: Key Projects of Innovation Fund of SWUST		

HONORS AND AWARDS

Jan. 2009 Merit Student of Mianyang City Jun. 2010 First Prize of Annual Advanced Mathematics Competition of SWUST Nov. 2010 National Scholarship (B.S.) Mar. 2011 Merit Student of Mianyang City Jan. 2013 Outstanding Graduate of Sichuan Province Apr. 2014 First Prize of Graduate Scholarship Nov. 2015 National Scholarship (M.S.) Dec. 2015 Outstanding Master Graduates of Sichuan Province Top 1% Mar. 2016 Excellent Master Thesis of ACM Oct. 2018 Second Prize of Postgraduate Scholarship Oct. 2018 Second Prize of Postgraduate Scholarship PROGRAMMING SKILLS Programming Languages Matlab, C/C++, Python, LŸI-X, OpenCV, Origin, Maple Dec. 2015 Outstanding Master Thesis of ACM Oct. 2018 Second Prize of Postgraduate Scholarship PROGRAMMING SKILLS Programming Languages Matlab, C/C++, Python, LŸI-X, OpenCV, Origin, Maple Dec. 2018 Outstanding Master Thesis of ACM Oct. 2018 Second Prize of Postgraduate Scholarship Dec. 2016 Second Prize of Postgraduate Scholarship Dec. 2017 Second Prize of Postgraduate Scholarship Dec. 2017 Second Prize of Postgrad		HUNURS AND AWARDS	
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 International Conference on Intelligence Science and Big Data Engineering, Nanjing, China. Chinese Conference on Pattern Recognition and Computer Vision, Guangzhou, China. International Conference on Computational Visual Media, Cardiff University, UK. Chinese Conference on Computer Vision, Xi'an, China. ★ Membership China Computer Federation (CCF) Sichuan Informatics Association of Traditional Chinese Medicine 			
 ○ Chinese Conference on Pattern Recognition and Computer Vision, Guangzhou, China. ○ International Conference on Computational Visual Media, Cardiff University, UK. ○ Chinese Conference on Computer Vision, Xi'an, China. 2015 ★ Membership ○ China Computer Federation (CCF) ○ Sichuan Informatics Association of Traditional Chinese Medicine 2021 		, , ,	
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• Sichuan Informatics Association of Traditional Chinese Medicine 2021	★ Membersh	nip	
o Institute of Electrical and Electronics Engineers (IEEE) 2019			
	o Institute	of Electrical and Electronics Engineers (IEEE)	2019

PUBLICATIONS

Overview I have published more than 10 papers on reputable journals and conferences like TIP, TCSVT, CVPR, ICME, CVIU and Neurocomputing etc. Most of these papers focus on a low-level computer vision task, i.e., image super-resolution, but also involve deep learning, dictionary learning, pattern recognition and other related fields. My academic homepage is located at https://zxlation.github.io/xiaole.github.com.

Journal

- [J1] Haoqian Wang, Xiaowan Hu, Xiaole Zhao and Yulun Zhang. "Wide weighted attention multi-scale network for accurate MR image super-resolution." IEEE Transactions on Circuits and Systems for Video Technology, Accepted, 2021.
- Xiaole Zhao, Yulun Zhang, Tao Zhang, Xueming Zou. "Channel splitting network for single MR image super-resolution." IEEE Transactions on Image Processing, vol. 28, no. 11, pp. 5649–5662, 2019.
- [J3] Xiaole Zhao, Yadong Wu, Jinsha Tian, Hongying Zhang. "Single image super-resolution via blind blurring estimation and dictionary learning." Neurocomputing, vol. 212, pp. 3–11, 2016.

- [J4] Xiaole Zhao, Xiafei Hu, Ying Liao, Tian He, Tao Zhang, Xueming Zou, Jinsha Tian. "Accurate MR image super-resolution via lightweight lateral inhibition network." Computer Vision and Image Understanding, 2020, 201: 103075.
- [J5] Xiaole Zhao, Huali Zhang, Yuliang Zhou, Wei Bian, Tao Zhang, Xueming Zou. "Gibbs-ringing artifact suppression with knowledge transfer from natural images to MR images." Multimedia Tools and Applications, pp. 1–23, 2019.
- [J6] Xiaole Zhao, Yadong Wu, Jinsha Tian, Hongying Zhang. "Single image super-resolution via blind blurring estimation and anchored space mapping." Computational Visual Media, vol. 21, no. 1, pp. 71–85, 2016.

Conference

- [C1] Xiaowan Hu, Zhihong Liu, Ruijun Ma, Yuanhao Cai, Haoqian Wang, Xiaole Zhao, and Yulun Zhang. "Pseudo 3D auto-correlation network for real Image denoising." In: CVPR, Virtual Event, 2021: 16175-16184.
- [C2] Xiaowan Hu, Haoqian Wang, Yuanhao Cai, Xiaole Zhao, Yulun Zhang. "Pyramid orthogonal attention network based on dual self-similarity for accurate MR image super-resolution." In: ICME, Shenzhen, China, 2021: 1-6.
- [C3] Xiaole Zhao, Xiafei Hu, Tao Zhang, Xueming Zou. "Isotropic MRI reconstruction with 3D convolutional neural network." In: ISMRM, Sydney, Australia, 2020.
- [C4] Xiaole Zhao, Tao Zhang, Xueming Zou. "A lightweight lateral inhibition network for single MR image super-resolution." In: IScIDE, Nanjing, China, 2019.
- [C5] Xiaole Zhao, Hangfei Liu, Tao Zhang, Wei Bian, and Xueming Zou. "Multilevel residual learning for single image super resolution." In: PRCV, Guangzhou, China, 2018: 537–549.
- [C6] Xiaole Zhao, Yadong Wu, Jinsha Tian, and Hongying Zhang. "Single image super-resolution via blind blurring estimation and anchored space mapping." In: CVM, Cardiff University, UK, 2016.
- [C7] Xiaole Zhao, Yadong Wu, Jinsha Tian, Hongying Zhang. "Single image super-resolution via blind blurring estimation and dictionary learning." In: CCCV, Xi'an, China, 2015: 22–33.

CONTACTS

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Laboratory of National High Magnetic Field (USA), Research Assistant

GE Global R & D Center, Senior Engineer

Alltech Medical System Co., LTD, Vice President of R & D, CTO

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Yadong Wu Southwest University of Science and Technology

M. S. Supervisor.

China Computer Federation, Senior Member

CCF YOCSEF, Vice Chairman

Sichaun University of Science and Engineering, Dean

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