

Ziqiang Wang

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EDUCATION

Doctor of Philosophy	Sep 2022 - Jul 2026
Computer Science	Concordia University
Relevant Courses: Machine Learning, Deep Learning, Representing Learning	
Master of Engineering	Sep 2019 - Jun 2022
Communication and Information System	Shanghai University
Relevant Courses: Matrix Theory, Optimization Theory and Methods, Computer Vision and Pattern Recognition, Digital Image Processing, Multimedia Information Processing and Coding	
Bachelor of Engineering	Sep 2015 - Jun 2019
Communication Engineering	Shanghai University
Relevant Courses: Data Structure and Algorithm Base, Digital Image Processing, Information Theory and Coding, Probability and Random Processes, Linear Algebra, Digital Signal Processing	

PUBLICATIONS

- **Z. Wang**, Z. Liu, G Li, Y Wang, T. Zhang, L. Xu, and J. Wang, "Spatio-temporal self-attention network for video saliency prediction," IEEE Transactions on Multimedia, vol. 25, pp. 1161-1174, 2023.
<https://ieeexplore.ieee.org/document/9667292>
- **Z. Wang**, Z. Liu, W. Wei, and H. Duan, "SaLED: Saliency prediction with a pithy encoder-decoder architecture sensing local and global information," Image and Vision Computing, vol. 109, article 104149, 2021.
<https://doi.org/10.1016/j.imavis.2021.104149>
- W. Wei, Z. Liu, L. Huang, **Z. Wang**, W. Chen, T. Zhang, J. Wang, and L. Xu, "Identify autism spectrum disorder via dynamic filter and deep spatiotemporal feature extraction," Signal Processing: Image Communication, vol. 94, article 116195, 2021. <https://doi.org/10.1016/j.image.2021.116195>

PROJECT EXPERIENCE

Assisted Diagnosis System for Mental Disorders	Dec 2020 - Nov 2021
<ul style="list-style-type: none">• Project description: Collect eye-tracking data with an eye tracker under eye-tracking paradigms, design algorithms to classify eye-tracking data to achieve assisted diagnosis of mental disorders.• Main work:<ol style="list-style-type: none">1. Based on C#, develop software for presenting eye-tracking collection paradigms and invoking an eye tracker to collect and store eye-tracking data2. Based on Python, process collected eye-tracking data, extract features according to abnormal eye-tracking characteristics of patients with mental illness, classify features using machine learning classification algorithms. (My work)	
Fixation Collection System	Jul 2020 - Oct 2020
<ul style="list-style-type: none">• Project description: Collect human fixations using a camera on a laptop computer• Main work:<ol style="list-style-type: none">1. Based on C#, develop a laptop-based client to capture videos of a subject's face using a laptop camera, upload collected data to a server, receive and display the server's processing results.2. Based on Python, establish communication via socket, receive video data from the client, fine-tune a gaze estimation model and perform gaze estimation, return results to the client. (My work)	

HONORS & AWARDS

Outstanding Master's Thesis Award, granted by Shanghai Graphics & Image Association	2023.02
National Scholarship for Postgraduates	2021.11
First Prize for Postgraduate Academic Scholarship of Shanghai University	2021.11
Third Prize in "HUAWEI Cup" the 16th China Post-Graduate Mathematical Contest in Modeling	2019.12