

Dongyang Li

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Education

Southern University of Science and Technology <i>Master of Engineering, Electronic Science and Technology</i> GPA: 3.28/4.00	2023-09 – Present <i>Shenzhen, Guangdong, China</i>
Zhengzhou University <i>Bachelor of Engineering, Computer Science and Technology</i> GPA: 3.54/4.00	2019-09 – 2023-07 <i>Zhengzhou, Henan, China</i>

Research Experience

AI for Invasive Brain-computer interface <i>Southern University of Science and Technology (SUSTech)</i> <ul style="list-style-type: none">• Advisor: Quanying Liu, Professor of SUSTech, PI of NCCLab• A unified framework to align the human brain with foundation models• Brain-computer interface based on large models	02, 2023 – Present <i>Shenzhen, Guangdong, China</i>
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Research Interests

Representation Learning, Multi-modality Learning, Brain-computer Interface.

Publications

- Dongyang Li**, Chen Wei, Shiyang Li, Jiachen Zou, and Quanying Liu. "Visual Decoding and Reconstruction via EEG Embeddings with Guided Diffusion." *The Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS 2024)*
- Dongyang Li**, Haoyang Qin, Mingyang Wu, Yuang Cao, Chen Wei and Quanying Liu. "RealMind: Zero-Shot EEG-Based Visual Decoding and Captioning Using Multi-Modal Models." (*submitted to ICASSP 2025*)
- Ruichao Zhan, **Dongyang Li (Co-first author)**, Song Wang and Quanying Liu. "D2CAN: Domain-guided contrastive adversarial network for EEG-based cross-subject cognitive workload decoding." *The Fourth International Workshop on Human Brain and Artificial Intelligence (IJCAI 2024)*
- Yiwei Kong, **Dongyang Li**, Jiahua Tang, Chen Wei and Quanying Liu. "A closed-loop EEG-based visual stimulation framework from controllable generation." (*In submission*)

Awards & Honors

"Challenge Cup" National Innovation and Entrepreneurship Plan Competition <i>Provincial Special Award and National Bronze Award</i>	2020.10
China Robot Competition, Advanced Vision Competition 3D Recognition Project <i>National First Prize (Captain)</i>	2022.04
China Robot Competition, Advanced Vision Competition Industrial Measurement Project <i>National First Prize (Captain)</i>	2022.04

Professional Service

Conference Reviewing: *The International Conference on Learning Representations*