Dongyang Li

1088 Taoyuan Street
Shenzhen, Guangdong, China, 518000

Personal Page
Email Address
Google Scholar

Education

Southern University of Science and Technology 2023-09 – Present
Master of Engineering, Electronic Science and Technology GPA: 3.28/4.00 *Shenzhen, Guangdong, China*

Zhengzhou University 2019-09 – 2023-06
Bachelor of Engineering, Computer Science and Technology GPA: 3.54/4.00 *Zhengzhou, Henan, China*

Research Experience

Generative models for neural data 06, 2022 – 02, 2023
Southern University of Science and Technology (SUSTech) *Shenzhen, Guangdong, China*
- Advisor: Quanying Liu, Professor of SUSTech, PI of NCCLab
- Neural data interpolation based on generative model

AI for invasive brain-computer interface 02, 2023 – Present
Southern University of Science and Technology (SUSTech) *Shenzhen, Guangdong, China*
- Advisor: Quanying Liu, Professor of SUSTech, PI of NCCLab
- Align the human brain with foundation models
- Brain-computer interface based on multimodal models
- AI-based closed-loop neural regulation system

Research Interests

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

Publications

Dongyang Li, Chen Wei, Shiying 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: Advancing Visual Decoding and Language Interaction via EEG Signals." *2025 IEEE International Conference on Multimedia and Expo (ICME 2025)*

Dongyang Li, Haoyang Qin, Mingyang Wu, Chen Wei and Quanying Liu. "BrainFLORA: Uncovering Brain Concept Representation via Multimodal Neural Embeddings." (***In submission)***

Dongyang Li, Kunpeng Xie, Yiwei Kong, Mingyang Wu, Jiahua Tang, Chen Wei and Quanying Liu. "A closed-loop EEG-based visual stimulation framework from controllable generation." (***In submission.)***

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)*

Sitong Chen, Beiqianyi Li, Cuilin He, **Dongyang Li (Co-first author)**, Mingyang Wu, Xindi Wang, Haiyan Wu and Quanying Liu. "ChineseEEG-2: An EEG Dataset for Multimodal Semantic Alignment and Neural Decoding during Reading and Listening" *Scientific Data.* (***In prep.)***

Awards & Honors

"Challenge Cup" National Innovation and Entrepreneurship Plan Competition
Provincial Special Award and National Bronze Award *2020.10*

China Robot Competition, Advanced Vision Competition 3D Recognition Project
National First Prize (Captain) *2022.04*

China Robot Competition, Advanced Vision Competition Industrial Measurement Project
National First Prize (Captain) *2022.04*

Professional Service

Conference Reviewing: *ICLR, ICML, NeurIPS, KDD, ACL, ACMMM, MICCAI*

Other Skills

Programming Languages: Proficient in Python, C++, Java
Machine Learning & AI: Experience with PyTorch, Paddle and various ML algorithms
Data Analysis: Skilled in data preprocessing, visualization, and statistical analysis
English: Fluent (CET-6)
Chinese: Native