

ZENG QIUHAO

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Professional Summary

I am a third-year PhD student in the Machine Learning Group within the Computer Science Department at Western University, supervised by Prof. Boyu Wang and Prof. Charles Ling (Canadian Academy of Engineering, CAE). My researches focus on transfer learning with temporal distribution shifts and efficient transformer architectures. Previously, I worked as a Research Associate in the Brain-Computer Interface (BCI) Group at Nanyang Technological University under the supervision of Prof. Guan Cuntai.

Educational Background

- **PhD in Computer Science**, Western University Jan 2022 – Present
- **M.Sc in Electrical Engineering**, National University of Singapore Aug 2017 – Jun 2018
CAP: 3.54/4.0
- **Bachelor in Engineering Mechanics**, Harbin Institute of Technology Sep 2013 – Jul 2017
CAP: 3.35/4.0

Working Experience

- **Software Engineer**, LITEON Singapore Jul 2018 – Mar 2019
- **Research Associate**, Nanyang Technological University Mar 2019 – Jun 2021

Publications

- **Towards Understanding Evolving Patterns in Sequential Data**, Conference on Neural Information Processing Systems (NeurIPS), 2025 (Spotlight), **First author**.
- **Latent Trajectory Learning for Limited Timestamps under Distribution Shift over Time**, International Conference on Learning Representations (ICLR), 2024 (oral: top 1.2%), **First author**.
- **Generalizing across Temporal Domains with Koopman Operators**, AAAI Conference on Artificial Intelligence (AAAI), Vancouver Canada, Feb 2024, **First author**.
- **Foresee What You Will Learn: Data Augmentation for Domain Generalization in Non-Stationary Environment**, AAAI Conference on Artificial Intelligence (AAAI), Washington DC, Feb 2023, **First author**.
- **Episodic Task-Agnostic Contrastive Training for Multi-Task Learning**, Neural Networks, 2023. Fourth author.
- **LGGNet: Learning from Local-Global-Graph Representations for Brain-Computer Interface**, IEEE TNNLS, Fourth author.
- **TSception: Capturing Temporal Dynamics and Spatial Asymmetry from EEG for Emotion Recognition**, IEEE Transactions on Affective Computing, Fourth author.

Patent

- **Mental Arousal Level Regulation System and Method**, PCT Patent no.PCT/SG2022/050243 (2022), eighth author.

Research Activities

- Conference Reviewer: AISTATS 2023, AISTATS 2024, ICLR 2024, ICML 2024, NeurIPS 2025, ICLR2025

Teaching Experience

- Teaching Assistant: CS3346 Introduction to Artificial Intelligence; CS2210 Data Structures and Algorithms; CS3388 Computer Graphics; CS3350 Computer Organization; CS3357 COMPUTER NETWORKS