

TAO XIE 谢涛

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EDUCATION

Guangdong University of Technology · Guangzhou, China Sep 2023 – Jun 2027 (expected)

B.S. in Automation, Outstanding Engineer Class — 3rd-year undergraduate

- Weighted Average Mark (WAM): 87+ (Top 12% of cohort)

RESEARCH INTERESTS

Time-series machine learning, spanning supervised classification, anomaly detection, forecasting, and representation learning, as well as unsupervised pattern discovery and clustering. Particular interest in interpretable models, mixture-of-experts methods, and large language / foundation models for sequential data, with applications to medical (e.g., sepsis prediction) and industrial domains.

RESEARCH EXPERIENCE

OMG Lab, Guangdong University of Technology 2025 – Present

Undergraduate Researcher, SIGMTA group · Advisor: Prof. Yiqun Zhang

PUBLICATIONS

Name in bold; * equal contribution; † corresponding author.

- [1] **Tao Xie**, Zexi Tan, Haoyi Xiao, Mengke Li, Yiqun Zhang†, Yang Lu, Cuie Yang, Yiu-ming Cheung. *AnchorMoE: Interpretable Time Series Classification via Anchor-Routed MoE*. ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2026. [CCF-A]
- [2] **Tao Xie***, Zexi Tan*, Haoyi Xiao, B. Sun, Yiqun Zhang†. *DE3S: Dual-Enhanced Soft-Sparse-Shape Learning for Medical Early Time-Series Classification*. IEEE International Conference on Bioinformatics and Biomedicine (BIBM) 2025. [CCF-B]
- [3] Zexi Tan*, **Tao Xie***, B. Sun, X. Zhang, Yiqun Zhang†, Yiu-ming Cheung. *MEET-Sepsis: Multi-Endogenous-View Enhanced Time-Series Representation Learning for Early Sepsis Prediction*. Pacific Rim International Conference on Artificial Intelligence (PRICAI) 2025. [CCF-C]

HONORS AND AWARDS

Special Prize (Grand Finals), Global AI Scenario Innovation Competition — core member 2026
First Prize (National), 18th Chinese Collegiate Computing Competition — second lead 2025
Second Prize (National), 11th Chinese Undergraduate Physics Experiment Tournament — core member 2025
Second-Class Scholarship, Guangdong University of Technology 2025

ACADEMIC SERVICE

Sub-reviewer / reviewer (as undergraduate):

- IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI)
- IEEE International Conference on Bioinformatics and Biomedicine (BIBM)

TECHNICAL SKILLS

Programming: Python (primary), C, MATLAB.

ML / DL: PyTorch, scikit-learn, pandas, NumPy, Hugging Face Transformers.

Tools: Git, Linux, LaTeX.

SELECTED COURSEWORK

Machine Learning, Deep Learning, Pattern Recognition, Probability and Statistics, Linear Algebra, Data Structures and Algorithms, Signal Processing.

LANGUAGES

Chinese (native); English (CET-6; working proficiency in academic reading and writing).