

Jialin Tang

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EDUCATION

University of California, Irvine Ph.D. in Computational Science	Expected 2030
California State University, Fullerton M.S. in Computer Science	2026
Shandong University of Finance and Economics B.M. in Information Management and Information Systems	2022

RESEARCH INTERESTS

Deep learning, image processing, Vision Large Language Models and diffusion.

JOURNAL ARTICLES

1. **J. Tang**, Y. Lou, Y. Guo, and Y. Bai, **HyperMODE: A Continuous-Depth Spectral-Spatial Modeling Framework With Mamba and Neural Ordinary Differential Equations for Hyperspectral Image Classification**, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 19, pp. 21474-21491, 2026.
2. **J. Tang**, N. Ma, C. Jia, R. Tian, and Y. Guo, **HyperEAST: An Enhanced Attention-Based Spectral-Spatial Transformer With Self-Supervised Pretraining for Hyperspectral Image Classification**, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 18, pp. 22241-22255, 2025.
3. **J. Tang**, Y. Yang, R. He, and Y. Bai, **Multimodal Mammography-Radiomics Fusion for Breast-Side-Level Prediction of Lymph Node Metastasis in Breast Cancer**, manuscript in final preparation for submission to *npj Precision Oncology*.
4. Y. Yang^{*}, **J. Tang^{*}**, Y. Bai, J. Luo, S. Cao, and R. He, **Identification of Dynamic Network Biomarkers in Hepatitis B-Related Hepatocellular Carcinoma Progression Using Cross-Sectional Multimodal Metabolomics Analysis With Transformer and ODE Models**, manuscript in final preparation for submission to *Nature Machine Intelligence*, 2026.

CONFERENCE PAPERS

1. **J. Tang** and Y. Bai, **PRISM-MAP: Pathology-Relevant Inversion with Semantic-Frequency Modulation and Morphology-Aligned Projection for Unpaired Virtual Staining**, submitted to the *AAAI Conference on Artificial Intelligence (AAAI 2027)*.
2. **J. Tang** and Y. Bai, **MAS-LLaVA: Motion-Aware Adaptive Sampling for Training-Free Video Large Language Models**, 2026 *International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA)*, Boracay Island, Philippines, 2026, pp. 1-6.
3. A. George, Y. Bai, and **J. Tang**, **Regression-Based Modeling of Antisense Oligonucleotide Efficacy Using Sequence, Structural, and Off-Target Features**, 2026 *IEEE 16th Annual Computing and Communication Workshop and Conference (CCWC)*, Las Vegas, NV, USA, 2026, pp. 458-461.
4. A. George and **J. Tang**, **Optimizing Energy Management Strategy for EV Wireless Charging Efficiency Using Proximal Policy Optimization**, 2026 *IEEE 16th Annual Computing and Communication Workshop and Conference (CCWC)*, Las Vegas, NV, USA, 2026, pp. 454-457.

SERVICE

Invited Reviewer

Reviewer for the Conference on Neural Information Processing Systems (NeurIPS) 2026.
Reviewer for the Conference on Artificial Intelligence (AAAI) 2027.