Xiangyu Wang

Preferred name: Xavier • xy.texwang.cs@gmail.com

Education

University of Electronic Science and Technology of China (UESTC) Sep 2024 – Present

B.E. in Computer Science and Technology, National "Everest Plan" Project

GPA: 3.61/4 **Average Score:** 85.46 **CET-4:** 584 (Excellent) **CET-6:** 527 (Excellent)

Research Experience

Shanghai Qi Zhi Institute Jul 2026 – Jan 2027

Full-time Researcher (On-site)

Advised by **Prof. Huazhe Xu** • **Tsinghua University**

- **Real-robot research:** Conduct on-site research in robot learning and embodied intelligence with direct access to physical robot platforms for policy deployment, evaluation, and iterative validation.
- **Research focus:** Study generative robot policies for manipulation, with emphasis on action representation, temporal modeling, and stochastic/noise modeling for fine-grained and complex manipulation.

Prof. Zhao Kang's Research Group, UESTC Jul 2025 – Jun 2026

Undergraduate Researcher

- **Graph prompting and optimal transport:** Investigated graph-scale prompt allocation and representation geometry in parameter-efficient adaptation of pretrained GNNs, leading to a measure-constrained optimal-transport formulation.
- **Geometry-aware relational learning:** Studied how intrinsic graph geometry and curvature regimes affect relational model behavior, generalization, and benchmark rankings across heterogeneous graph structures.

Selected Publications & Preprints

[1] Preserving Geometric Integrity in Graph Prompting via Measure-Constrained Optimal Transport

Xiangyu Wang*, *Shuo Wang**, *Ruiyi Fang*, *Zhao Kang*

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) – *Major Revision* 2026 arXiv:2609.23547

- Formulated MINT as globally coupled, fixed-marginal prompt allocation via entropic optimal transport, controlling graph-wide prompt capacity while preserving local node–prompt compatibility.
- Derived an exact variance decomposition linking prompt measure, prompt geometry, and barycentric mixing; evaluated the framework across homophilic and heterophilic few-shot benchmarks.

[2] The Post-GCN Decade Revisited: Curvature-Stratified Evaluation of Relational Learning

*Shuo Wang**, ***Xiangyu Wang****, *Quanxin Wang*, *Bailin Wu*, *Bokui Wang*, *Shunyang Huang*, *Boyan Deng*, *Haonan Liu*, *Ruiyi Fang*, *Zhenxiang Xu*, *Boyu Wang*, *Zhao Kang*

ICLR 2027 – *Under Review* arXiv:2606.06397

- Introduced curvature-stratified evaluation over positive-, negative-, and near-zero-curvature regimes, benchmarking 18 representative models across 14 datasets.
- Showed substantial cross-regime ranking shifts, exposing geometry-dependent trade-offs hidden by conventional flat leaderboards.

** Equal contribution*

Project Experience

Non-linear Classifiers Generalized from Linear Classifiers – University of Cambridge *Project Leader*

Supervised by **Prof. Jamie Vicary** (Professor of Future Computation).

Recognition: "Best Team" and **"Best Individual"**; highest personal score **84/100 (GPA 4.5/5.0)**; received two written recommendation letters from Prof. Vicary recognizing strong project performance.

- Derived gradient-based optimization equations and implemented a linear classifier; generalized the formulation to a non-linear classifier for broader decision boundaries.

Project-Based Game Design – UESTC Academic Project *Team Member*

Final project exhibition: **98/100**.

- Developed a complete interactive game in Unity3D/Playmaker, including finite-state-machine logic, complex event judgment, and retro CRT visual effects.

Leadership & Interests

Class President, National "Everest Plan" Cohort, UESTC *Excellent Student Leader*

Interests: Tennis • Drums