Xingyue Huang

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Education

University of Oxford 09/2023 – Present
DPhil in Computer Science Oxford, United Kingdom
Supervised by Prof. Michael Bronstein and Dr. İsmail Ceylan

University of Oxford 09/2019 – 06/2023
MMathCompsci in Mathematics and Computer Science Oxford, United Kingdom
Graduated with Distinction

Selected Publications

First Author of HYPER: A Foundation Model for Inductive Link Prediction with Knowledge Hypergraphs
Under Review for **NeurIPS 2025**
First foundation model for link prediction with knowledge hypergraphs

First Author of Distilling Tool Knowledge into Language Models via Back-Translated Traces **ICML-MAS 2025**
A systematic pipeline to distill tool-integrated-reasoning traces to LLM for better CoT perforamnce

First Author of How Expressive are Knowledge Graph Foundation Models? **ICML 2025**
Expressivity study of knowledge graph foundation model and developing framework equipped with arbitrary motifs

First Author of Link Prediction with Relational Hypergraphs **TMLR**
Applying conditional message passing for link prediction on fully relational data with expressiveness guarantee

Author of Cooperative Graph Neural Networks **ICML 2024**
A dynamic and flexible message-passing paradigm in which each node can choose a different communication strategy

First Author of A Theory of Link Prediction via Relational Weisfeiler-Leman on Knowledge Graph **NeurIPS 2023**
Theoretical expressiveness study for advanced link prediction models on knowledge graphs

First Author of Feature Selection of High Dimensional Data by Adaptive Potential Particle Swarm Optimization
IEEE CEC 2019
Proposing a novel Particle Swarm Optimization with feature pre-filtering and adaptive cut-point selection.

Professional Experience

Snap Inc. 06/2025 - 10/2025
Research Intern Bellevue, United States

- Research Intern in User Modeling & Personalization (UMaP) Research Team, focusing on language modeling.
- Researched in sparse attention to alleviate attention dispersion for long-context understanding of LLM.
- Investigated methods for adapting large language models to generate embeddings for retrieval tasks

Eigent-AI 10/2024 – 06/2025
Research Intern London, United Kingdom

- Contributing to the open-source multi-agent framework, CAMEL-AI, reached first place in Github Trending.
- Led the data generation project to distill mathematical tool-use capabilities with SFT via backtranslation.
- Contributed to the open-source project *Loong*, focused on generating verifiable reinforcement learning workflows.

Alibaba Group 07/2021 – 09/2021
Machine Learning Engineer Intern Hangzhou, China

- Developed an object detection system for video subtitle-detection with Faster-RCNN model
- Conducted semantic analysis on OCR-detected titles to assess the quality of video descriptions
- Improved accuracy of object detection and classification by 10% and were incorporated into production