

# Xingyue Huang

Tel: (44)7579902135 ◇ Email: xingyue.huang@cs.ox.ac.uk ◇ Website: <https://hxscotthuang.github.io/>

## Education

**University of Oxford** (Expected graduation 01/2027) 09/2023 – Present  
**DPhil in Computer Science** Oxford, United Kingdom  
Supervised by DeepMind Chair of AI Prof. Michael Bronstein and Prof. 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**  
*First foundation model for link prediction with knowledge hypergraphs*

Co-First Author of [Flock: A Knowledge Graph Foundation Model via Learning on Random Walks](#) **Under Review**  
*Knowledge graph foundation model with probabilistic node-relation equivariance*

First Author of [Loong: Synthesize Long Chain-of-Thoughts at Scale through Verifiers](#) **NeurIPS 2025 LAW**  
*A framework for synthetic data generation and verification across a diverse range of reasoning-intensive domains.*

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

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*

## 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