Lu Xunqi

lxq.xunqi@gmail.com | linkedin.com/in/luxunqi | github.com/XunqiLU

EDUCATION

Hefei University of Technology Hefei, China
B.E. in Remote Sensing Science and Technology Sep. 2021 – Jun. 2025

CAMPUS EXPERIENCE

Study Secretary Sep. 2022 – Jun. 2025
SMP 2023 *(The Eleventh China National Conference on Social Media Processing)* Volunteer Nov. 2023
Volunteer Activities for the Country People Jul. 2023 – Aug. 2023
Self-discipline Committee Oct. 2021 – Jul. 2023
Director Sep. 2022 – Jul. 2023
Student Union of the school Sep. 2021 – Jul. 2023
Department Minister Sep. 2022 – Jul. 2023
New Media Center Sep. 2021 – Jul. 2022

PROFESSIONAL EXPERIENCE

Hefei University of Technology Hefei, China
Research Assistant Jun. 2025 – Mar. 2026

- Research project: *Multi-level Collaborative Identification of Dominant Forest Tree Species Using Spaceborne Multi-source Remote Sensing Data*

Institute of Artificial Intelligence, Hefei Comprehensive National Science Center Hefei, China
Intern Jul. 2023 – Dec. 2023 & Jan. 2024 – Jun. 2024

- Research project: *Research and Application of Ubiquitous Psychological Computing and Interactive Intervention Technology*
- Participated in tasks including assisting on a review work of the agents and community intelligence, writing a popular science article, formatting of scientific reports, and project performance evaluation report preparation, etc.
- The comprehensive evaluation grade of performance was EXCELLENT.

Multimodal Affective Computing Lab Hefei, China
NLP Team Member Jul. 2022 – Jun. 2025

- Conduct research on a heterogeneous graph neural network for mathematical reasoning.
- Assisted on the research of a bottom-up graph neural network for expression solving.

PROJECTS

Intelligent pavement damage detection based on deep learning
Undergraduate Thesis

- Developed an intelligent pavement damage detection system using YOLOv5 and integrated the Efficient Local Attention (ELA) module, significantly enhancing small-scale crack recognition under complex backgrounds.
- Built and curated a UAV-based pavement dataset (2,400+ images, 11k+ annotations) and optimized training pipelines, achieving a 13.9% improvement in mAP@0.5:0.95 compared to the baseline YOLOv5 model.

Heterogeneous Graph Neural Network for Mathematical Reasoning

- Enhanced GraphMR (EMNLP 2021) by addressing the limitation of homogeneous node representations in semantic discrimination.
- Built a heterogeneous-graph reasoning model using an R-GCN encoder and Transformer decoder, achieving strong results on symbolic expression tasks (e.g., 99.7% on POLY1, 92.9% on MBA).

Bottom-up Graph Representation Learning for Symbolic Expression Solving

- Participated in core technical research discussions, supporting the development and refinement of the bottom-up graph representation learning model.

Other

Japanese: JLPT N2 (preparing to take the N1 test).
Awards: Scholarships and competition prizes (AI/GIS/translation) amount to more than ten.
Hobbies: Drawing (Children's Painting Level 6), piano (Grade 5), badminton, photography, reading, etc.