

CONTACT

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RESEARCH INTERESTS

Data Mining
Data Science
Machine Learning
Natural Language Processing
Recommender System

LANGUAGES

English

Bilingual

High proficiency in reading and writing

Chinese

Mandarin

Native Fluency

Chinese

Cantonese

Native Fluency

XURONG (JASON) LIANG

梁旭荣

Ph.D. Student, Research Assistant & Teaching Assistant
Computer Science

EDUCATION

Doctor of Philosophy (Ph.D.) in Computer Science University of Queensland, Australia

2023 — 2027 (exp.)

Ph.D. project *Tiny Machine Learning for On-device Recommendation*
Advised by Prof. Hongzhi Yin and Dr. Rocky Tong Chen.

Bachelor of Computer Science (Honors) University of Queensland, Australia

2022

Honors project *PEP++: Improved Pruning-Based Embedding Dimension Optimization for Recommender Systems*
Advised by Dr. Rocky Tong Chen.
Awarded an **Honors Class I Degree (cumulative GPA 7.000/7.000)**.

Bachelor of Computer Science University of Queensland, Australia

2019 — 2021

Graduated with cumulative **GPA 6.792/7.000**. Major in **Data Science**.

High School Diploma Indooroopilly State High School, Australia

2016 — 2018

Graduated with **OP4** (Highest: 1, Lowest: 25).

ACHIEVEMENTS

Dean's Commendation for Academic Excellence — Bachelor of Computer Science (Hons) University of Queensland, Australia

2022

Awarded to students who obtained a grade point average of 6.60 or higher in single semester.

Dean's Commendation for Academic Excellence — Bachelor of Computer Science University of Queensland, Australia

2019 — Jul 2021

Awarded to students who obtained a grade point average of 6.60 or higher in single semester.

Cloud Computing INFS3208 Best Project Runner-up Award University of Queensland, Australia

2021

Awarded for outstanding performance in INFS3208 Cloud Computing individual project competition 2021.

Prentice Scholar 2020
University of Queensland, Australia

2020

Prentice Scholars are students whose academic performance sits within the top five percent of the undergraduate Computer Science and Information Technology cohort at The University of Queensland.

Subject Prize Award – Information Processing and Technology
Indooroopilly State High School, Australia

2017

Ranked 1st in the Information Processing and Technology course cohort.

SCHOLARSHIPS

Australian Government Research Training Program (RTP) Scholarship

2023 — 2027

UQ International Onshore Merit Scholarship

2022

Winter Research Scholarship

2021

PUBLICATIONS

Lightweight Embeddings for Graph Collaborative Filtering
Paper, Code

SIGIR '24

Xurong Liang, Tong Chen, Lizhen Cui, Yang Wang, Meng Wang, and Hongzhi Yin

Learning Compact Compositional Embeddings via Regularized Pruning for Recommendation
Paper, Code

ICDM '23

Xurong Liang, Tong Chen, Quoc Viet Hung Nguyen, Jianxin Li, and Hongzhi Yin

ACADEMIC WORK EXPERIENCE

Casual Teaching Assistant
University of Queensland, Australia

Feb 2022 — present

Tutoring course **INFS7901 – Database Principles** in Semester 1 and **INFS3208/INFS7208 - Cloud Computing** in Semester 2 each year. Offering practical & tutorial sessions weekly and responsible for assignment and exam paper marking.

Casual Research Assistant
University of Queensland, Australia

Sep 2021 — present

Conducting research relevant experiments, data preprocessing, baseline testing and algorithm implementation in the field of **Explainable Recommender Systems**.

Winter Research Scholar
University of Queensland, Australia

Jun 2021 — Jul 2021

Dynamic Topic Modelling on Social Media — Utilizing **Natural Language Processing (NLP)** techniques to model and analyze the change of trending topics on social media in relation to COVID-19 throughout the first 100-day period since the virus emerged. Project conducted under the supervision of Prof. Zi (Helen) Huang and Dr. Rocky Tong Chen. Project result visualization available at <https://topicvis.nifu.me/>.

Voluntary Teaching Assistant
Dalu Primary School (大芦小学), Yulin, Guangxi 537000, China

Dec 2019 — Jan 2020

Teaching English and Information Technology courses to elementary school students. In charge of homework materials organization and marking.

SOCIAL WORK EXPERIENCE

Self-employed Courier Delivery Service
Brisbane, QLD 4000, Australia

Dec 2020 — Feb 2021

Contracting last-mile delivery orders with courier providers such as 1stEx® and CouriersPlease® in particular regions around Brisbane.

IT internship Program
Yulin Jintao Yinghua Trading, LLC (金涛英华贸易有限公司), Yulin, Guangxi 537000, China

Nov 2018 — Feb 2019

Maintaining the hardware and software of the company with assistance from full-time employees of the Information Technology department.

Expo Helper
AAS Education & Student Services, Spring Hill, QLD 4000, Australia

Jul 2017

Assisting prospective students in answering any inquiries regarding further studies abroad. Assisting in student recruitment and encouraging prospective genuine students to apply to the institute on-site.

Voluntary International Student Ambassador
Indooroopilly State High School, Australia

Jan 2017

Assisting new students at International Student Orientation and providing school tours for visiting delegates.