

## CONTACT

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4072, AUSTRALIA

## RESEARCH INTERESTS

Data Mining  
Data Science  
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 — 2026 (exp.)

Ph.D. project *Toward Memory-Efficient Recommender Systems*  
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 Opti-  
mization 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).

## PUBLICATIONS

**Lightweight Embeddings with Graph Rewiring for Col-  
laborative Filtering**  
**Paper**

TOIS '25

Xurong Liang, Tong Chen, Wei Yuan, and Hongzhi Yin

**Lightweight Embeddings for Graph Collaborative Fil-  
tering**  
**Paper, Code**

SIGIR '24

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

**Hate Speech Detection with Generalizable Topic-  
aware Fairness**  
**Paper, Code**

KDD '24

Tong Chen, Danny Wang, Xurong Liang, Marten Risius, Gianluca Demartini  
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

## 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

**Google Research Travel Scholarship**

2024

**UQ International Onshore Merit Scholarship**

2022

**Winter Research Scholarship**

2021

## ACADEMIC WORK EXPERIENCE

### Applied Scientist Internship

Oct 2024 — May 2025

Amazon, Australia

Conducting research on the topic of *In-context Learning for Addressing User Cold-start in Sequential Recommenders* with the guidance from Dr. Julien Monteil, Dr. Vu Nguyen, Dr. Vuong Le and Dr. Paul Albert.

### Casual Teaching Assistant

Feb 2022 — present

University of Queensland, Australia

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

Sep 2021 — present

University of Queensland, Australia

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

### Winter Research Scholar

Jun 2021 — Jul 2021

University of Queensland, Australia

*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

Dec 2019 — Jan 2020

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

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

Dec 2020 — Feb 2021

Brisbane, QLD 4000, Australia

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

### Expo Helper

Jul 2017

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

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

Jan 2017

Indooroopilly State High School, Australia

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