GUANLI LIU

✉ liuguanli22@gmail.com · ☎ (+61) 450075953 · **in** Guanli Liu

Summary

I am a third-year PhD student at the University of Melbourne. My research interest is using machine learning technology to solve database related problems, for example, index building. Before UoM, I was a senior researcher and developer in Baidu Inc. in Beijing, China.

👥 EXPERIENCE

The University of Melbourne   Aug. 2019 – Present

Tutor   Comp90018 (Mobile Computing)

- Android development
- Project guidance
- Assignment marking

Tutor   Comp90041 (Programming and Software Development)

- Java development
- Assignment marking

Baidu Inc. Beijing, China   2015 – 2017

Senior Researcher and Developer   Android developer

Instant Messaging application development based on Android system. Key contributions are as follows:
- Message: Message recall, Message deletion, Red pocket Message, Contact Message
- Projects: QR code recognition, file transfer assistant, splash, global message search
- Voice assistant: Voice recognition SDK integration, send message, order meeting room

Neusoft Shenyang, China   Jun. 2012 – Sep. 2012

Software Engineer   Java Web development

- A team work (1/6) of administrative system of the logistics

🎓 EDUCATION

The University of Melbourne, Melbourne, Australia   2019 – Present

PhD Candidate in Computing and Information System, expected December 2022

Northeastern University, Shenyang, China   2013 – 2015

M.S. in Computer Technology

Northeastern University, Shenyang, China   2009 – 2013

B.S. in Software Engineering

⚙ SKILLS

- Programming Languages: Java > Python == C++
- Development: Java Web, Java, Android, SQL, LaTex, TensorFlow, PyTorch

📑 PAPERS

- Guanli Liu, Lars Kulik, Xingjun Ma, Jianzhong Qi. A Lazy Approach for Efficient Index Learning. arXiv preprint arXiv:2102.08081. [**source code**]
- Jianzhong Qi (supervisor), Guanli Liu, Christian S. Jensen, and Lars Kulik. Effectively Learning Spatial Indices. PVLDB, 13(11): 2341-2354, 2020. [**source code**]

- Yu Gu (supervisor), Guanli Liu, Jianzhong Qi, Hongfei Xu, Ge Yu, and Rui Zhang. The Moving K Diversified Nearest Neighbor Query. TKDE, 28(10): 2778-2792, 2016.

♡ Honors and Awards

Performance appraisal in Baidu *Top 20%*	2016
Outstanding master student *Top 5%*	2014
3rd *Prize* prize of American college students' mathematical modelling contest	2011
3rd *Prize* prize of Google Android application development in China	2011

ⓘ Miscellaneous

- GitHub: https://github.com/Liuguanli
- Languages: English - Fluent, Mandarin - Native speaker