

GUANLI LIU

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

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.

🎓 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

📄 PAPERS

- Guanli Liu, Lars Kulik, Xingjun Ma, Jianzhong Qi. A Lazy Approach for Efficient Index Learning. arXiv preprint arXiv:2102.08081.
source code: <https://github.com/Liuguanli/ModelReuse>
- Jianzhong Qi (supervisor), Guanli Liu, Christian S. Jensen, and Lars Kulik. Effectively Learning Spatial Indices. PVLDB, 13(11): 2341-2354, 2020.
source code: <https://github.com/Liuguanli/RSMI>
- 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.

👤 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

⚙️ SKILLS

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

♡ HONORS AND AWARDS

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

📌 MISCELLANEOUS

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