ALEXANDER ZHOU

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PERSONAL DETAILS

Full Name: Alexander Tiannan ZHOU
Date of Birth: 13/01/1997
Gender: Male

CITIZENSHIP/RESIDENCY

Citizen of Australia
Permanent Foreign Resident of People's Republic of China

ONLINE IDS

Google Scholar ID: zQSmMZkAAAAJ
DBLP Key: 219/5776 **ORCID ID:** 0000-0002-7063-2017 **Semantic Scholar:** 48543245

EDUCATION

The Hong Kong University of Science and Technology   *2019 - Present*
Doctor of Philosophy in Computer Science
Supervisor: Prof. Lei Chen

The University of Queensland   *2014 - 2019*
Bachelor of Engineering (Hons) and Bachelor of Science
Engineering Major in Software Engineering with Class IIA
Thesis Supervisor: Dr. Hongzhi Yin
Science Major in Statistics

Brisbane Grammar School   *2009 - 2013*
Graduated with an OP3 (Queensland Overall Position 3), which can be converted to an ATAR
(Australian Tertiary Admissions Ranking) 97 out of 100.

CONFERENCE REVIEWER/SPEAKER EXPERIENCE

DASFAA 2023, 2024: Program Committee Member

ADMA 2023: Program Committee Member

ADC 2023: PhD Workshop Invited Speaker

PUBLICATIONS

Works Current in Review Process: 4

(*): Denotes works where the first author was primarily led by myself.

2023:

A Zhou, Y Wang, L Chen. Butterfly Counting and Bitruss Decomposition on Uncertain Bipartite Graphs. *VLDBJ*.

A Tian, **A Zhou**, Y Wang, L Chen. Maximal D-Truss Search in Dynamic Directed Graphs. *PVLDB*. 16(9): 2199-2211 (*)

K Chung, **A Zhou**, Y Wang, L Chen. Maximum Balanced (k, ϵ)-Bitruss Detection in Signed Bipartite Graph. *PVLDB* [Accepted but not yet Published] (*)

M Imran, H Yin, T Chen, Q Nguyen, **A Zhou**, K Zheng. ReFRS: Resource-efficient Federated Recommender System for Dynamic and Diversified User Preferences. *ACM Transactions on Information Systems*

2022:

Y Wang, R Xu, X Jian, **A Zhou**, L Chen. Towards Distributed Bitruss Decomposition on Bipartite Graphs. *PVLDB*. 15(9): 1889-1901

K Wang, W Zhang, X Lin, L Qin, **A Zhou**. Efficient Personalized Maximum Biclique Search. *ICDE*. 498-511

X Sun, H Yin, B Liu, Q Meng, J Cao, **A Zhou**, H Chen. Structure Learning via Meta-hyperedge for Dynamic Rumor Detection. *TKDE*.

2021:

A Zhou, Y Wang, L Chen. Butterfly Counting in Uncertain Bipartite Networks. *PVDLB*. 15(2): 211-223

Q Wang, H Yin, T Chen, J Yu, **A Zhou**, X Zhang. Fast-adapting and Privacy-preserving Federated Recommender System. *VLDBJ*.

2020:

A Zhou, Y Wang, L Chen. Finding Large Diverse Communities on Networks: The Edge Maximum k^*-Partite Clique. *PVLDB*. 13(12): 2576-2589

2019:

L Guo, H Yin, Q Wang, T Chen, **A Zhou**, N Quoc Viet Hung. Streaming Session-based Recommendation. *SIGKDD*. 1569-1577

2018:

A Zhou, F Zhang, L Yuan, Y Zhang, X Lin. Finding Maximal Stable Cores in Social Networks. *ADC*. 224-235

F Zhang, L Yuan, Y Zhang, L Qin, X Lin, **A Zhou**. Discovering Strong Communities with User Engagement and Tie Strength. *DASFAA*. 425-441

ADDITIONAL POSITIONS/WORK HISTORY

The Hong Kong University of Science and Technology   *2020 - 2024*
Teaching Assistant

- Worked as a research assistant for the courses "COMP4331: Data Mining" and "COMP1029V: Excel VBA Programming Bridging Course" for Prof. Lei Chen and Dr. Gibson Lam respectively.

University of Waterloo   *Nov 2022 - March 2023*
Visiting Overseas Researcher

- Spent time at the Data Systems Group at the University of Waterloo working under Prof. Tamer Özsu.

- Involved with working on modelling Positive Communities whilst being cognisant of undersirable attributes these systems traditionally can contain.

The Chinese University of Hong Kong   *2018 - 2019*
Research Assistant

- Worked with a group of researchers in The Department of Systems Engineering and Engineering Management under the supervision of Prof Jeffrey Xu Yu.

- Involved with research projects in graph databases, specifically with the discovery of maximum edge bicliques in large graphs.

The University of Queensland   *2018 - 2019*
Thesis Project

- Worked under the supervision of Dr. Hongzhi Yin on a year-long thesis project regarding graph coarsening for network embedding.

- Involved in a conference paper publication [SIGKDD 2019].

- Received grade of 7/7 (High Distinction)

The University of New South Wales   *2017 - 2018*
Summer Research Scholarship

- Worked under the supervisions of Prof. Xuemin Lin, A/Profs. Wenjie Zhang and Ying Zhang regarding finding cohesive subgraphs in large graphs.

- Involved in two conference paper publications [ADC 2018 and DASFAA 2018].

The University of Queensland   *2017 - 2019*
Teaching Assistant

- Worked as a teaching assistant to the course "INFS1200/7900: Introduction to Information Systems" which contained over 600 students per semester. The course was under the supervision of Prof. Shazia Sadiq (S2 2017, S1 2018, S1 2019), Prof. Xue Li (S1 2017) and Dr. Hassan Khosravi (S2 2018).

- Course outline: Information systems analysis, design and implementation, relational database technology, data modelling, data querying using SQL.

- Activities and Responsibilities: Taught the course content in tutorial sessions, ran practical sessions using phpMyAdmin, grading and creation of assessment, creating of course content material and interviewing and selecting potential new teaching assistants.

- Ranked highly by students with a tutor evaluation of 4.83/5.

Siemens *2016 - 2017*
Internship

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- Located in Suzhou, China in conjunction with Soochow University

- Worked on a series of small projects including a targeted web-crawler in Java and using JSoup in conjunction with a MongoDB database.