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Ph.D. Candidate

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National University of Singapore

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Education

Jan. 2018 – Present

Ph.D. Candidate, NUS Graduate School for Integrative Sciences and Engineering (NGS)

National University of Singapore, Singapore

- Thesis Topic: Knowledge-Enriched Natural Language Generation
- Research Focus: Natural Language Generation, Knowledge Graph, NLP, Multimedia

Sep. 2014 – Jun. 2017

Master's Degree, Computer Science and Technology

Tsinghua University, Beijing, China

- Thesis Topic: Course Concept Extraction and Relation Learning in Massive Open Online Courses (MOOCs)
- Research Focus: MOOCs, Knowledge Graph, Natural Language Processing

Sep. 2010 – Jun. 2014

Bachelor of Engineering, Software Engineering

Beihang University, Beijing, China

Work Experience

Jul. 2017 – Dec. 2017

Research Assistant, Knowledge Engineering Group (KEG), Tsinghua University

- Research Focus: Concept evolution in scholarly documents of computer science

Publications

1. Jingjing Chen, **Liangming Pan**, ZhipengWei, Xiang Wang, Chong-Wah Ngo, Tat-Seng Chua. Zero-shot Ingredient Recognition by Multi-Relational Graph Convolutional Network. Proceedings of *the 34th AAAI Conference on Artificial Intelligence* (AAAI, 2020)

2. **Liangming Pan**, Wenqiang Lei, Tat-Seng Chua, Min-Yan Kan. Recent Advances in Neural Question Generation. *arXiv preprint arXiv:1905.08949* (2019)

3. Yahui An, **Liangming Pan***, Min-Yen Kan, Qiang Dong, Yan Fu. Resource Mention Extraction for MOOC Discussion Forums. IEEE Access 7 (2019): 87887-87900. (Corresponding Author)

4. **Liangming Pan**, Chengjiang Li, Juanzi Li, and Jie Tang. Prerequisite Relation Learning for Concepts in MOOCs. In Proceedings of *the 55th Annual Meeting of the Association for Computational Linguistics* (ACL, 2017)

5. **Liangming Pan**, Xiaochen Wang, Chengjiang Li, Juanzi Li, and Jie Tang. Course Concept Extraction in MOOCs via Embedding-Based Graph Propagation. In Proceedings of *the 8th International Joint Conference on Natural Language Processing* (IJCNLP, 2017)

6. **Liangming Pan**, Zhigang Wang, Juanzi Li, and Jie Tang. Domain Specific Cross-lingual Knowledge Linking based on Similarity Flooding. In Proceedings of *the 9th International Conference on Knowledge Science, Engineering and Management* (KSEM, 2016)

Honors & Awards

Jun. 2017	Excellent master postgraduate of CS department, Tsinghua
Oct. 2016	First prize of 'Friends of Tsinghua — Renrendai scholarship'
Apr. 2013	Meritorious Winner of Mathematical Contest in Modeling
Dec. 2011	Third prize Scholarship of Academic Performance
Aug. 2011	Second prize of Mathematics Competition in Beihang University

Skill Set

Program Languages	Python, Java, C\C++	(Advanced)
Deep Learning	TensorFlow, PyTorch	(Advanced)
Databases	SQL Server, MongoDB	(Intermediate)
Web Technologies	HTML, JavaScript	(Intermediate)
Operating System	Linux, Windows XP/7/8/10	(Intermediate)

Languages

Chinese (Mandarin)	Native Fluency
English	Advanced Proficiency