

Xin Liu 劉昕

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🏠 <https://www.cse.ust.hk/~xliucr>

🔍 <https://scholar.google.com.hk/citations?user=WvC4upQAAAAJ&hl=en>

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Research Interests: Natural Language Understanding, Graph Reasoning.

Education

- Aug. 2018 - Now 📌 **Ph.D. Student** at Department of Computer Science and Engineering, Hong Kong University of Science and Technology, Hong Kong, China, supervised by [Prof. Yangqiu Song](#).
- Aug. 2014 - June 2018 📌 **B.E. Degree** at Department of Computer Science, Sun Yat-sen University, Guangzhou, China, supervised by [Prof. Rong Pan](#).
Outstanding Graduate, Outstanding Graduate Thesis.

Publications

* means equal contribution.

Conference Publications

- Xin Liu** and Yangqiu Song. ‘Graph Convolutional Networks with Dual Message Passing for Subgraph Isomorphism Counting and Matching’. In *AAAI*. 2022.
- Xin Liu**, Jiefu Ou, Yangqiu Song and Xin Jiang. ‘Exploring Discourse Structures for Argument Impact Classification’. In *ACL*. 2021.
- Xin Liu**, Jiefu Ou, Yangqiu Song and Xin Jiang. ‘On the Importance of Word and Sentence Representation Learning in Implicit Discourse Relation Classification’. In *IJCAI*. 2020.
- Xin Liu**, Haojie Pan, Mutian He, Yangqiu Song, Xin Jiang and Lifeng Shang. ‘Neural Subgraph Isomorphism Counting’. In *KDD*. 2020.
- Hongming Zhang*, **Xin Liu***, Haojie Pan*, Yangqiu Song and Cane Wing-Ki Leung. ‘ASER: A Large-scale Eventuality Knowledge Graph’. In *WWW*. 2020.
- Jie Huang, **Xin Liu** and Yangqiu Song. ‘Hyper-Path-Based Representation Learning for Hyper-Networks’. In *CIKM*. 2019.
- Yan Liang, **Xin Liu**, Jianwen Zhang and Yangqiu Song. ‘Relation Discovery with Out-of-Relation Knowledge Base as Supervision’. In *NAACL-HLT*. 2019.
- Ziqian Zeng, Wenxuan Zhou, **Xin Liu** and Yangqiu Song. ‘A Variational Approach to Weakly Supervised Document-Level Multi-Aspect Sentiment Classification’. In *NAACL-HLT*. 2019.
- Huiru Xiao, **Xin Liu** and Yangqiu Song. ‘Efficient Path Prediction for Semi-Supervised and Weakly Supervised Hierarchical Text Classification’. In *WWW*. 2019.
- Ziqian Zeng*, **Xin Liu*** and Yangqiu Song. ‘Biased Random Walk based Social Regularization for Word Embeddings’. In *IJCAI*. 2018.

Preprint Papers

- Hongming Zhang*, **Xin Liu***, Haojie Pan*, Haowen Ke, Jiefu Ou, Tianqing Fang and Yangqiu Song. ‘ASER: Towards Large-scale Commonsense Knowledge Acquisition via Higher-order Selectional Preference over Eventualities’. 2021. arXiv: 2104.02137.

Awards

- 2020
 - HKUST CSE Professor Samuel Chanson Best Teaching Assistant Award
 - HKUST SENG Academic Award for Continuing PhD Students
- 2018
 - SYSU Outstanding Graduate, and SYSU Outstanding Graduate Thesis
 - The First Prize, GuangDong Collegiate Programming Contest (GDCPC)
 - Top 10, Tencent social advertising college algorithm competition
- 2017
 - Top 10, Tencent social advertising college algorithm competition
 - Meritorious Winner, Mathematical Contest in Modeling/Interdisciplinary Contest in Modeling (MCM/ICM)
 - The Second Place, SYSU Hackathon
 - The Silver Medal, Huawei Code Craft Shenzhen Site
- 2015-2017
 - National Scholarship ×3

Experience

- Feb. 2021 - June 2021
 - Teaching Assistant**, Natural Language Processing (MSBD6000H), Hong Kong University of Science and Technology, Hong Kong, China.
- Feb. 2020 - June 2020
 - Teaching Assistant**, Big Data Mining (COMP4332/RMBI4310), Hong Kong University of Science and Technology, Hong Kong, China.
- Feb. 2019 - May 2019
 - Teaching Assistant**, Big Data Mining (COMP4332/RMBI4310), Hong Kong University of Science and Technology, Hong Kong, China.
- Sept. 2018 - Dec. 2018
 - Teaching Assistant**, Machine Learning for Natural Language Processing (COMP4901K/MATH4824B), Hong Kong University of Science and Technology, Hong Kong, China.
- Jan. 2018 - July 2018
 - Research Assistant**, Knowledge Computation Group, Hong Kong University of Science and Technology, Hong Kong, China.
- June 2017 - Dec. 2017
 - Research Intern** [Mentor: [Dr. Liang Jeff Chen](#)], Cloud & Mobile Group, Microsoft Research Asia, Beijing, China.

Projects

- 2020
 - ASER 2.0 ([GitHub](#), [Homepage](#)): Towards Large-scale Commonsense Knowledge Acquisition via Higher-order Selectional Preference over Eventualities.
- 2019
 - ASER 1.0 ([GitHub](#)): A Large-scale Eventuality Knowledge Graph.
- 2018
 - WRMCQA ([GitHub](#)): Question Answering System based on Wikipedia Retrieval and Machine Comprehension (Final Year Project).
 - Open-source Mnemonic Reader and R-Net ([GitHub](#)): Open-source implementation for the QA task (During the internship in HKUST).
- 2017
 - GraphView (open-source version on [GitHub](#)): the first distributed graph database, which is an important part of Microsoft Azure (During the internship in MSRA).

Academic Service

- Conference Reviewer**: CIKM'19,21 AACL'21,22 IJCAI'21
- Conference External Reviewer**: ACL'19 EMNLP'19 IJCAI'19,20 KDD'19,20,21
- Volunteer**: Baidu World Conference'16 IJCAI'18,19,20 NAACL-HLT'19 KDD'20