

Jichuan Zeng 曾纪川

Ph.D. student (Year 5)

Department of Computer Science and Engineering

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EDUCATION

- **The Chinese University of Hong Kong**
Ph.D. Candidate, Dept. of Computer Science & Engineering 2015 – 2019
 - Supervisor: Prof. Irwin King and Prof. Michael R. Lyu
 - Thesis: Latent Variable Modeling for Natural Language Understanding
- **Harbin Institution of Technology**
Master of Computer Science and Technology 2011 – 2014
 - Supervisor: Prof. Qingcai Chen
 - Thesis: Chapter-level handwritten input method on Android
- **South China Normal University**
Bachelor of Educational Information Technology 2006 – 2010
 - GPA: 3.78 (3/79)

RESEARCH INTERESTS

- Nature Language Processing: Social Media Analysis, Conversation Understanding, Text-to-SQL
- Machine Learning: Deep Generative Model, Unsupervised Learning, Parallel Optimization
- Software Engineering: App Review Analysis, Toolkit Design

PUBLICATION

- **J. Zeng**, J. Li, Y. He, C. Gao, M. Lyu, I. King. What Changed Your Mind: The Roles of Dynamic Topics and Discourse in Argumentation Process. In Proceedings of The Web Conference 2020 (WWW), Taipei, Taiwan, 2020, to appear. [Oral]
- C. Gao, **J. Zeng**, X. Xia, D. Lo, M. R. Lyu, and I. King, RRGGen: Automating App Review Response Generation. Proceedings of the 34th IEEE/ACM International Conference on Automated Software Engineering (ASE), San Diego, California, USA, 2019.
- **J. Zeng**, J. Li, Y. He, C. Gao, M. Lyu, I. King. What You Say and How You Say it: Joint Modeling of Topics and Discourse in Microblog Conversations. Transactions of the Association for Computational Linguistics (TACL), 2019. (Oral presented in ACL, 2019)
- C. Gao, W. Zheng, Y. Deng, D. Lo, **J. Zeng**, M. R. Lyu, I. King. Emerging app issue identification from user feedback: Experience on WeChat. Proceedings of the 41th ACM/IEEE International Conference on Software Engineering (ICSE), Montreal, QC, Canada, 2019.
- **J. Zeng**, J. Li, Y. Song, C. Gao, M. R. Lyu, and I. King. Topic Memory Network for Short Text Classification. Empirical Methods in Natural Language Processing (EMNLP), Long paper, Brussels, Belgium, 2018. [Oral]
- C. Gao, **J. Zeng**, D. Lo, C. Lin, M. R. Lyu, and I. King. INFAR: Insight Extraction from App Reviews. The 26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Demo track, Florida, USA, 2018.
- C. Gao, **J. Zeng**, F. Sarro, M. R. Lyu, and I. King. Exploring the Effects of Ad Schemes on the Performance Cost of Mobile Phones. In Proceedings of the 1st International Workshop on Advances in Mobile App Analysis (A-Mobile), co-located with ASE, 2018.
- C. Gao, **J. Zeng**, M. R. Lyu, and I. King. Online App Review Analysis for Identifying Emerging Issues. In Proceedings of the 40th International Conference on Software Engineering (ICSE), Gothenburg, Sweden, May 27-June 3, 2018.
- **J. Zeng**, H. Yang, I. King, and M. R. Lyu. A Comparison of Lasso-type Algorithms on Distributed Parallel Machine Learning Platforms. In Distributed Machine Learning and Matrix Computations Workshop, Annual Conference on Neural Information Processing Systems, 2014.

PAPERS UNDER REVIEW

- **J.Zeng***, V. Lin*, S. Hoi, C. Xiong, R. Socher, M. Lyu, I. King. Submitted to the 58th Annual Meeting of the Association for Computational Linguistics, Demo Track (ACL 2020 Demo).
- **J.Zeng**, V. Lin, S. Hoi, M. Lyu, I. King, C. Xiong, R. Socher. Submitted to the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020).
- **J.Zeng***, C.Gao*, D. Lo, Z. Wen, M. Lyu, I. King. Real-Time App Review Analysis via Online Joint Sentiment-Topic Tracing. Submitted to IEEE Transactions on Software Engineering (TSE).
- C. Gao, **J.Zeng**, D. Lo, X. Xia, M. R. Lyu, and I. King. What Are Users Complaining about Mobile In-App Ads? An Empirical Study on In-App Ad Reviews. Submitted to IEEE Transactions on Software Engineering (TSE).

WORK EXPERIENCE

- **Salesforce Research**, Singapore Oct. 2019 - Feb. 2020
 - Leader: Prof. Steven Hoi
 - Research Topic: Text-to-SQL, Adversarial Learning
- **NLP Group, AI Lab, Tencent**, Shenzhen, China Jan. 2018 - May. 2019
 - Mentor: Prof. Jing Li
 - Research Topic: Topic Model, Deep Generative Model, and Conversation Understanding
- **Machine Learning Group, Microsoft Research Asia**, Beijing, China Jul. 2017 - Nov. 2017
 - Mentor: Dr. Taifeng Wang
 - Research Topic: Parallel and Distributed Optimization Algorithm

RESEARCH SERVICE

- PC member & Reviewer: AAAI-20, AAAI-19, EMNLP-18
- Reviewer: AAAI-20, EMNLP-18, AAAI-19, EMNLP-19, NIPS-18, IJCAI-18, NIPS-17, UAI-17, SIGIR-17, WSDM-17, AAAI-16, ICSE-16,

TEACHING ASSISTANT

- ECLT 5820 – Distributed and Mobile Systems Fall 2018
- CMSC5741 – Big Data Analysis and Application Fall 2018
- CMSC5724 – Data Mining and Knowledge Discovery Fall 2016
- CSCI3100 – Software Engineering Fall 2015

AWARDS

- Outstanding Achievement of Intelligent Computing Research Center, 2012
- Scholarship Winner of Harbin Institute of Technology in 2011, 2012
- Scholarship Winner of South China Normal University in 2006, 2007, 2008

SKILLS

- Proficient: Python, Java/Groovy.
- Familiar: Matlab/Julia, C++/C#, SQL, LATEX, Bash, JavaScript, HTML/CSS/Sass.
- Software/Frameworks: PyTorch/Keras, Tensorflow, Docker.
- Open source projects:
 - [TopicDisc](#): Joint Modeling of Topics and Discourse in Microblog Conversations
 - [TMN](#): Topic Memory Networks for Short Text Classification
 - [IDEA](#): Identifying Emerging issues from App Reviews
 - [INFAR](#): Insight Extraction from App Reviews