

# Qingkai Zeng

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CONTACT INFORMATION	355 Fitzpatrick Hall Department of Computer Science and Engineering University of Notre Dame, IN 46556, US	Phone: (917) 864-3832 Web: qingkaizeng.github.io E-mail: qzeng@nd.edu
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• Applied Machine Learning</li><li>• Information Extraction</li></ul>	<ul style="list-style-type: none"><li>• Text Mining</li><li>• Taxonomy Construction</li></ul>
EDUCATION EXPERIENCE	<b>University of Notre Dame, IN, US</b> Ph.D. student in Computer Science and Engineering <ul style="list-style-type: none"><li>• Advisor: Professor Meng Jiang</li></ul> <b>University of Illinois at Urbana-Champaign, IL, US</b> M.Eng in Electrical and Computer Engineering <ul style="list-style-type: none"><li>• Advisor: Professor Meng Jiang</li></ul> <b>Sun Yat-sen University, Guangzhou, China</b> B.Eng in Electrical and Computer Engineering	Jan. 2018 – present Aug. 2016 – Dec. 2017 Aug. 2011 – June 2015
INDUSTRY EXPERIENCE	<b>JD Silicon Valley Research Center, CA, US</b> <i>Research Intern; Worked with Dr. Lingfei Wu and Dr. Xiaojie Guo</i> <ul style="list-style-type: none"><li>• Worked on controllable copywriting Generation.</li></ul>	May 2021 – Aug. 2021
HONOR AND AWARDS	Kaneb Center Outstanding TA Award ACM SIGSOFT (ICSE) Distinguished Paper Award	2022 2021
SCHOLAR PAGE	Google Scholar: <a href="https://scholar.google.com/citations?user=7qiPINEAAAAJhl=en">https://scholar.google.com/citations?user=7qiPINEAAAAJhl=en</a> <ul style="list-style-type: none"><li>• Citations</li><li>• h-index</li><li>• i10-index</li></ul>	288 9 9
PEER-REVIEWED CONFERENCE PUBLICATIONS	[C14] Xiaojie Guo, <b>Qingkai Zeng</b> , Meng Jiang, Yun Xiao, Bo Long, Lingfei Wu. “Automatic Controllable Product Copywriting for E-Commerce”, In Proceedings of the ACM SIGKDD international conference on Knowledge discovery and data mining ( <b>KDD</b> ), 2022 .  [C13] <b>Qingkai Zeng</b> , Jinfeng Lin, Wenhao Yu, Jane Cleland-Huang, Meng Jiang. “Enhancing Taxonomy Completion with Concept Generation via Fusing Relational Representations”, In Proceedings of the ACM SIGKDD international conference on Knowledge discovery and data mining ( <b>KDD</b> ), 2021  [C12] Wenhao Yu, Lingfei Wu, <b>Qingkai Zeng</b> , Yu Deng, Ruchi Mahindru, Sinem Guven, Meng Jiang. “Technical Question Answering across Tasks and Domains”, in Proceedings of Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies ( <b>NAACL-HLT</b> ), 2021.  [C11] Chenguang Zhu, William Hinthorn, Ruochen Xu, <b>Qingkai Zeng</b> , Michael Zeng, Xuedong Huang, Meng Jiang. “Enhancing Factual Consistency of Abstractive Summarization”, in Proceedings of Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies ( <b>NAACL-HLT</b> ), 2021.  [C10] Jinfeng Lin, Yalin Liu, <b>Qingkai Zeng</b> , Meng Jiang, Jane Cleland-Huang, “Traceability Transformed: Generating More Accurate Links with Pre-Trained BERT”, In Proceedings of International Conference on Software Engineering ( <b>ICSE</b> ), 2021. ( <b>ACM SIGSOFT Distinguished Paper Award</b> )	

[C9] **Qingkai Zeng**, Wenhao Yu, Mengxia Yu, Tianwen Jiang, Tim Weninger, Meng Jiang. “Tri-Train: Automatic Pre-Fine Tuning between Pre-Training and Fine-Tuning for SciNER”, in Findings of Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020.

[C8] Wenhao Yu, Lingfei Wu, Yu Deng, Ruchi Mahindru, **Qingkai Zeng**, Sinem Guven, Meng Jiang. “A Technical Question Answering System with Transfer Learning”, in Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020.

[C7] Yalin Liu, Jinfeng Lin, **Qingkai Zeng**, Meng Jiang, Jane Cleland-Huang, “Towards Semantically Guided Traceability”, in Proceedings of IEEE International Requirements Engineering Conference (RE), 2020.

[C6] Wenhao Yu, Lingfei Wu, **Qingkai Zeng**, Shu Tao, Yu Deng, Meng Jiang. “Crossing Variational Autoencoders for Answer Retrieval”, in Proceedings of Annual Conference of the Association for Computational Linguistics (ACL), 2020.

[C5] Wenhao Yu, Wei Peng, Yu Shu, **Qingkai Zeng**, Meng Jiang. “Experimental Evidence Extraction in Data Science with Hybrid Table Features and Ensemble Learning”, in Proceedings of the Web Conference (WWW), 2020.

[C4] Wenhao Yu, Zongze Li, **Qingkai Zeng**, Meng Jiang. “Tablepedia: Automating PDF Table Reading in an Experimental Evidence Exploration and Analytic System”, in Proceedings of the Web Conference (WWW), 2019.

[C3] Daniel (Yue) Zhang, Bo Ni, Qiyu Zhi, Thomas Plummer, Qi Li, Hao Zheng, **Qingkai Zeng**, Yang Zhang, Dong Wang. “Through The Eyes of A Poet: Classical Poetry Recommendation with Visual Input on Social Media”, in Proceedings of IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2019.

[C2] Daheng Wang, Meng Jiang, Xueying Wang, Tong Zhao, **Qingkai Zeng**, Nitesh Chawla. “A Project Showcase for Planning Research Work towards Publishable Success”, in the Project Showcase track of ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2018.

[C1] Daheng Wang, Meng Jiang, **Qingkai Zeng**, Zachary Eberhart, Nitesh Chawla. “Multi-Type Itemset Embedding for Learning Behavior Success”, in Proceedings of ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2018.

PEER-REVIEWED  
JOURNAL  
PUBLICATIONS

[J4] Jinfeng Lin, Amrit Poudel, Wenhao Yu, **Qingkai Zeng**, Meng Jiang, Jane Cleland-Huang. “Enhancing Automated Software Traceability by Transfer Learning from Open-World Data”, under review at Empirical Software Engineering (EMSE).

[J3] Daheng Wang, **Qingkai Zeng**, Nitesh Chawla, Meng Jiang. “Modeling Complementarity in Behavior Data with Multi-Type Itemset Embedding”, in ACM Transactions on Intelligent Systems and Technology (TIST), 2021.

[J2] Tianwen Jiang, **Qingkai Zeng**, Tong Zhao, Bing Qin, Ting Liu, Nitesh Chawla, Meng Jiang. “Biomedical Knowledge Graphs Construction from Conditional Statements”, in IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), 2020.

[J1] Meng Jiang, Brooke Ammerman, **Qingkai Zeng**, Ross Jacobucci. “Phrase-level Pairwise Topic Modeling to Uncover Helpful Peer Responses to Online Suicidal

Crises”, in Nature Humanities and Social Sciences Communications, 2020.

PEER-REVIEWED  
WORKSHOP  
PUBLICATIONS

[W4] **Qingkai Zeng**, Mengxia Yu, Wenhao Yu, Tianwen Jiang, Meng Jiang. “Validating Label Consistency in NER Data Annotation,” in the Workshop on Evaluation and Comparison of NLP Systems (**Eval4NLP**) in conjunction with Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2021.

[W3] Wenhao Yu, Lingfei Wu, Shu Tao, Yu Deng, **Qingkai Zeng**, Meng Jiang. “Generating Helpful Responses for Intelligent Tech Support,” in the Workshop on Reasoning for Complex QA (RCQA) in conjunction with Conference on Artificial Intelligence (**AAAI**), 2020.

[W2] **Qingkai Zeng**, Mengxia Yu, Wenhao Yu, Jinjun Xiong, Yiyu Shi, Meng Jiang. “Faceted Hierarchy: A New Graph Type to Organize Scientific Concepts and a Construction Method”, in the Workshop on Graph-Based Natural Language Processing (TextGraphs) in conjunction with Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2019.

[W1] Yihong Ma, **Qingkai Zeng**, Tianwen Jiang, Liang Cai, Meng Jiang. “A Study of Person Entity Extraction and Profiling from Classical Chinese Historiography”, in the Workshop on Entity REtrieval (EYRE) in conjunction with ACM International Conference on Information and Knowledge Management (**CIKM**), 2019.

SKILLS

**Programming Languages:** Python, MATLAB, C++, C, CUDA  
**Deep Learning Platforms:** PyTorch, TensorFlow

PROFESSIONAL  
SERVICES

Conference PC/Reviewer:

- ACL
- COLING
- EMNLP
- ARR
- NAACL
- CIKM
- IJCAI

Journal Reviewer:

- TWEB
- TKDD
- BigData