

Kenny Q. Zhu

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Research Interests

Natural Language Processing, Knowledge Engineering, Artificial Intelligence.

Positions

Full Professor (tenured), University of Texas at Arlington, August 2023 - Present.

Full Professor (tenured), Shanghai Jiao Tong University (SJTU), January 2016 - August 2023.

Associate Professor (tenure-track), Shanghai Jiao Tong University (SJTU), January 2010 - December 2015.

Visiting Professor, Microsoft Research Asia, February 2010 - September 2010.

Postdoctoral Researcher & Lecturer, Princeton University, advisor: David Walker, January 2007 - August 2009.

Software Design Engineer, Microsoft USA, October 2005 - December 2006.

Research Fellow, National University of Singapore, June 2005 - September 2005.

Education

Ph.D. in Computer Science, National University of Singapore, advisors: Joxan Jaffar and Roland Yap, 2005.

B.Eng. in Computer Engineering (Hons), National University of Singapore, 1999.

Awards and Honors

2018 Work on commonsense knowledge graph reported by Wenhui Bao, one of the top newspapers in China.

2018 Advisor of SJTU Best Bachelors Thesis Award (top 1% and Best in CS)

2016 Advisor of SJTU Best Bachelors Thesis Award (top 1%)

2015 Model University Course for International Students - "Programming Languages", Shanghai.

2015 Advisor of SJTU Best Bachelors Thesis Award (#1 in computer science).

2014 DASFAA **Best Paper Award** - " ρ -uncertainty Anonymization by Partial Suppression".

2013 Google Faculty Research Award - "Action Conceptualization from Text Documents" (**Only winner from China that year**).

2013 Model University Course Instructed in English - "Database System Concepts", Shanghai.

2012 Candle Light Award, SJTU.

2012 First Prize (#1), Teach-in-English Competition, SJTU.

2011-2014 Teach-in-English Excellence Award, SEIEE, SJTU.

2010 Microsoft Research Asia Young Faculty Visiting Program.

Research Grants

NSF Award No. 2349713 (PI), “REU Site: Animal Language Processing and Understanding”, 2024-2026, USD 483,804.

Meituan Inc. Joint Research Grant (PI), “Automatic Construction of General-purpose E-commerce Knowledge Graph”, 2022, RMB 725,000 (1 USD = 6.8 RMB).

CMB Credit Card Center-SJTU Joint Research Grant (PI), “Natural Language Processing Models (2021)”, 2021-2022, RMB 450,000.

Yipu Tech Joint Research Grant (PI), “Information Extraction System for Drug Inserts”, 2021-2022, RMB 150,000.

CMB Credit Card Center-SJTU Joint Research Grant (PI), “Natural Language Processing Models”, 2020-2021, RMB 450,000.

CMB Credit Card Center-SJTU Joint Research Grant (PI), “Natural Language Processing Models (Dialogue systems)”, 2019-2020, RMB 450,000.

SJTU Medical-Engineering Cross-disciplinary Research Scheme (Co-PI), “A Chest Cancer Database and Diagnostic Model based on Large Datasets”, 2019-2021, RMB 500,000.

Leyan-SJTU Joint Research Grant (PI), “Data Augmentation in Cross-Domain Semantic Understanding and Knowledge Construction”, 2018-2019, RMB 520,000.

Didi-SJTU Joint Research Scheme (PI), “A dataset of multi-turn QA”, 2018-2019, RMB 150,000.

Morgan Stanley Joint Research Scheme (PI), “Data Lineage Discovery”, 2018, RMB60,000.

SJTU-Michigan Joint Research Scheme (PI), “Automatic construction of a causality knowledge base from large online financial text”, 2017-2018, USD 100,000.

Morgan Stanley Joint Research Scheme (PI), “Modernizing C++ with GSL Core Guidelines”, 2017, RMB 150,000.

NSFC Key Program (Grant No. 91646205) (Co-PI), “Big Data Driven Holistic Management for Cardiovascular Health,” 2017-2021, RMB 2,400,000.

Xuebajun Research Grant (PI), “Knowledge Base Question Answering,” 2016-2017, RMB 240,000.

CTrip Joint Research Scheme (PI), “Change and Cancellation Policy Mining for Flight Reservations,” 2016, RMB 60,000.

Shanghai University Model Courses for International Students, “Programming Languages”, 2015-2017, RMB 100,000.

Morgan Stanley Joint Research Scheme (PI), “Dead Code Detection of Real World Scala Applications - Phase II”, 2015-2016, RMB 200,000.

Morgan Stanley Joint Research Scheme (PI), “Dead Code Detection of Scale Source Code”, 2015-2016, RMB 200,000.

Morgan Stanley Joint Research Scheme (PI), “Dead Code Detection in Scala Compiler Source”, 2015, RMB 200,000.

NSFC China-Korea Joint Research and Cooperation Program (PI), “A Study on Multi-lingual, Cross-cultural Association Networks”, 2014, RMB 100,000.

AstraZeneca Joint Research Scheme (PI), “Information Extraction from Medical Documents”, 2013-2015, RMB 372,500.

Google Faculty Research Award (PI), “Action Conceptualization from Text Documents”, 2013, USD 23,000.

Oracle Joint Research Scheme (PI), “Automatic Extraction of Computing Topics from Large Code Repositories”, 2013-2014, USD 29,412.

NSFC General Program (Grant No. 61373031) (PI), “An Ontology Based on Action Concepts and Its Applications on Text Processing”, 2014-2017, RMB 750,000.

Shanghai Model University Course Award, “Database System Concepts”, 2014-2016, RMB 40,000.

Microsoft Joint Research Scheme (PI), “Text Understanding and Classification Using Structured Knowledge”, 2011-2012, USD 20,000.

NSFC Young Scientist Program (Grant No. 61100050) (PI), “Incremental Format Inference from Ad Hoc Data”, 2012-2014, RMB 220,000.

Chinese Ministry of Education New Faculty Award (No. 20110073120023) (PI), 2012-2014, RMB 40,000.

NSFC Key Program (Grant No. 61033002) (Co-PI), “M-Models and M-Solvability”, 2011-2014, RMB 2,000,000.

SJTU-Morgan Stanley Joint Research Scheme (Co-PI), “Data Privacy”, 2011-2012, RMB 120,000.

Shanghai Bai Yu Lan Science and Technology Grant (PI), 2012, RMB 22,000.

SJTU Distinguished Research Fellow Award (PI), 2010-2012, RMB 200,000.

Selected Patents

US Patent No. 2007-1053 (Granted). “Format Inference for Ad Hoc Data”. Filed in August, 2008.

US Patent No. 2009-0801 (Granted). “Incremental Learning of Format Descriptions”. Filed in November, 2009.

Chinese Patent No. 201210109622.9 (Granted). “A TV Program Recommendation System for Real Time Streams”. Filed in April, 2012.

Chinese Patent No. 201210110031.3 (Granted). “Automatic Labeling of TV Programs”. Filed in April, 2012.

Chinese Patent No. 201210285469.5 (Granted). “A System for Anonymizing Set-valued Data by Partial Suppression”. Filed in April, 2012.

Chinese Patent No. 201210580975.7 (Granted). “A System for Extracting Top-K Lists from the Web”. Filed in December, 2012.

Chinese Patent No. 201310237564.2 (Granted). “Watermarking Maps against Crop and Merge Attacks”. Filed in May, 2013.

Chinese Patent No. 201310471554.5 (Granted). “Semantic Disambiguation based on Link Co-occurrences in Online Encyclopedias.”

Chinese Patent No. 201310501114.X (Granted). “A Search Recommendation System based on Concept Substitutions.”

Chinese Patent No. 201410554684.X (Granted). “An Entity Clustering System for Images Returned by Web Search Engines.”

Selected Talks and Lectures

“Probase Probabilistic Taxonomy and Its Applications in Term Similarity Computation”, invited talk at Alibaba, Hangzhou, China, 01/21/2017.

“An Association Network for Computing Term Similarity”, invited talk at Hong Kong Polytechnic University, 08/23/2015.

“An Association Network for Computing Term Similarity”, invited talk at Shandong University, 07/10/2015.

“False Rumor Detection on Sina Weibo by Propagation Structures”, invited talk at Renmin University of China, 12/12/2014.

“False Rumor Detection on Sina Weibo by Propagation Structures”, invited talk at POSTECH, South Korea, 11/25/2014.

“Computing Term Similarity”, tutorial at WAIM 2013 Summer School, 06/14/2013.

“Research Highlights at ADAPT-Lab, SJTU”, invited talk at Oracle Labs, Brisbane, Australia, 04/10/2013.

“Data processing: a programming language perspective”, invited talk at The Eighth Asian Workshop on Foundation of Software, 05/14, 2011.

Teaching Records (from 2010)

Semester	Course	Institute	Hrs/Semester
Spring, 2024 -	CSE 4392 Natural Language Processing	UTA	48 hrs
Fall, 2023 -	CSE 3302/5307 Programming Languages	UTA	48 hrs
Fall, 2010- Fall 2013:	CS490 Windows Internals	SJTU	51 hrs
Spring, 2010-2011:	CS304 Database System Concepts	SJTU	51 hrs
Fall, 2011 - 2023:	CS383 Programming Languages (A)	SJTU	51 hrs
Spring, 2012-2013:	X037515 Programming Languages	SJTU	51 hrs
Fall, 2014- Fall, 2019:	SE305 Database System Technology	SJTU	48 hrs
Spring, 2014-2015:	EI326 Engineering Practice and Technical Innovation III-G	SJTU	34 hrs
Spring, 2015-2023:	F033583 Introduction Web Search and Mining	SJTU	32 hrs
Fall, 2023-Present:	CSE 3302/5307 Programming Languages	SJTU	48 hrs
Spring, 2024-Present:	CSE 4392 Special Topics: Natural Language Processing	SJTU	48 hrs

Student Supervision

	PhD	MSc	BEng
Current	5	5	1
Graduated	6	27	70+
Selected First Employment	NUS, Sun Yat-sen University, JD.com AI Labs, Alibaba, Meituan	Univ. of Auckland, Google(2), Morgan Stanley, Huawei, Net-nease(4), Alibaba(4), Baidu, Tencent	UIUC, UT Austin, CMU(4), HKU, Google(6), Facebook(3), Microsoft

Professional Services

AAAI PC:	2020-present (SPC), 2019, 2018, 2017, 2016, 2015
IJCAI PC:	2021-2023 (SPC), 2020, 2019, 2018
ACL PC:	2019-present
EMNLP PC:	2018-present
NAACL PC:	2020-present
COLING PC:	2020, 2018, 2016, 2014
SIGIR PC:	2023
ACL Rolling:	2020-present
CIKM PC:	2018, 2012
WWW PC:	2022, 2013
ECML PC:	2022, 2016, 2015, 2014, 2011
SAC PC:	2015, 2014
WAIM PC:	2015 (AC)
PAKDD PC:	2020 (workshop chair)
CCKS PC:	2021 (workshop chair), 2020, 2019, 2018 (AC)
TKDE reviewer:	2019, 2018, 2016

Publications

(* marks the contact author.)

2024

1. Siyuan Chen, Meilin Wang, Minghao Lv, Zhiling Zhang, Juqianqian, Dejiyangla, Yujia Peng, Kenny Q. Zhu*, and Mengyue Wu*. Mapping Long-term Causalities in Psychiatric Symptomatology and Life Events from Social Media. In the Proceedings of NAACL 2024.
2. Siyu Ren and Kenny Q. Zhu*. Low-Rank Prune-And-Factorize for Language Model Compression. In the Proceedings of COLING 2024.
3. Siyu Ren, Ziyong Wu and Kenny Q. Zhu*. EMO: Earth Mover Distance Optimization for Auto-regressive Language Modeling. In the Proceedings of ICLR 2024.

2023

4. Shanshan Huang and Kenny Q. Zhu*. Statistically Profiling Biases in Natural Language Reasoning Datasets and Models. In the Findings of EMNLP 2023.
5. Zhiling Zhang, Mengyue Wu* and Kenny Q. Zhu*. Semantic Space Grounded Weighted Decoding for Multi-Attribute Controllable Dialogue Generation. In the Proceedings of EMNLP 2023.
6. Siyuan Chen, Zhiling Zhang, Mengyue Wu* and Kenny Q. Zhu*. Detection of Multiple Mental Disorders from Social Media with Two-Stream Psychiatric Experts. In the Proceedings of EMNLP 2023.
7. Siyu Ren, Qi Jia and Kenny Q. Zhu*. Context Compression for Auto-regressive Transformers with Sentinel Tokens. In the Proceedings of EMNLP 2023.
8. Qi Jia, Siyu Ren, Yizhu Liu and Kenny Q. Zhu*. Zero-shot Faithfulness Evaluation for Text Summarization with Foundation Language Model. In the Proceedings of EMNLP 2023.
9. Qi Jia, Yizhu Liu, Siyu Ren and Kenny Q. Zhu*. Taxonomy of Abstractive Dialogue Summarization: Scenarios, Approaches and Future Directions. In ACM Computing Surveys 2023.
10. Xuenan Xu, Zhiling Zhang, Zelin Zhou, Pingyue Zhang, Zeyu Xie, Mengyue Wu* and Kenny Q. Zhu*. BLAT: Bootstrapping Language-Audio Pre-training based on AudioSet Tag-guided Synthetic Data. In the Proceedings of ACM Multimedia 2023.
11. Shanshan Huang, Siyu Ren and Kenny Q. Zhu*. Combating Short Circuit Behavior in Natural Language Reasoning: Crossover and Mutation Operations for Enhanced Robustness. In the Proceedings of ECAI 2023.
12. Shansan Gong, Zelin Zhou, Shuo Wang, Fengjiao Chen, Xiujie Song, Xuezhi Cao, Yunsen Xian and Kenny Q. Zhu*. Transferable and Efficient: Unifying Dynamic Multi-Domain Product Categorization. In the Proceedings of ACL 2023.
13. Qi Jia, Yizhu Liu, Haifeng Tang and Kenny Q. Zhu*. In-sample Curriculum Learning by Sequence Completion for Natural Language Generation. In the Proceedings of ACL 2023.
14. Qi Jia, Haifeng Tang and Kenny Q. Zhu*. Reducing Sensitivity on Speaker Names for Text Generation from Dialogues In the Findings of ACL 2023.
15. Siyu Ren and Kenny Q. Zhu*. Pruning Pre-trained Language Models with Principled Importance and Self-regularization. In the Findings of ACL 2023.
16. Zitong Li, Jiawei Li, Haifeng Tang, Kenny Q. Zhu* and Ruolan Yang. Incomplete Utterance Rewriting by A Two-Phase Locate-and-Fill Regime. In the Findings of ACL 2023.
17. Jieyi Huang, Chunhao Zhang, Mengyue Wu* and Kenny Q. Zhu*. Transcribing Vocal Communications of Domestic Shiba Inu Dogs. In the Findings of ACL 2023.

2022

18. Zhiling Zhang, Siyuan Chen, Mengyue Wu* and Kenny Q. Zhu*. Symptom Identification for Interpretable Detection of Multiple Mental Disorders. *In the Proceedings of EMNLP 2022*.
19. Yizhu Liu, Qi Jia and Kenny Q. Zhu*. Opinion Summarization by Weak-Supervision from Mix-structured Data. *In the Proceedings of EMNLP 2022*.
20. Zhiling Zhang, Siyuan Chen, Mengyue Wu* and Kenny Q. Zhu*. Psychiatric Scale Guided Risky Post Screening for Detection of Early Depression. *In the Proceedings of IJCAI 2022 (AI for Good)*.
21. Yizhu Liu, Qi Jia and Kenny Q. Zhu*. Reference-free Summarization Evaluation via Semantic Correlation and Compression Ratio. *In the Proceedings of NAACL 2022*.
22. Qi Jia, Yizhu Liu, Haifeng Tang and Kenny Q. Zhu*. Post-Training Dialogue Summarization using Pseudo-Paraphrasing. *In the Findings of NAACL 2022*.
23. Siyu Ren and Kenny Q. Zhu*. Leaner and Faster: Two-Stage Model Compression for Lightweight Text-Image Retrieval. *In the Proceedings of NAACL 2022*.
24. Siyu Ren and Kenny Q. Zhu*. Specializing Pre-trained Language Models for Better Relational Reasoning via Network Pruning. *In the Findings of NAACL 2022*.
25. Shansan Gong and Kenny Q. Zhu*. Positive, Negative and Neutral: Modeling Implicit Feedback in Session-based News Recommendation. *In the Proceedings of ACM SIGIR 2022*.
26. Yizhu Liu, Qi Jia and Kenny Q. Zhu*. Length Control in Abstractive Summarization by Pretraining Information Selection. *In the Proceedings of ACL 2022*.
27. Ruolan Yang, Zitong Li, Haifeng Tang and Kenny Q. Zhu*. ChatMatch: Evaluating Chatbots by Autonomous Chat Tournaments. *In the Proceedings of ACL 2022*.
28. Zelin Zhou, Zhiling Zhang, Xuenan Xu, Zeyu Xie, Mengyue Wu*, and Kenny Q. Zhu*. Can Audio Captions Be Evaluated with Image Caption Metrics? *In the Proceedings of ICASSP 2022*.

2021

29. Zhiling Zhang, Zelin Zhou, Haifeng Tang, Guangwei Li, Mengyue Wu* and Kenny Q. Zhu*. Enriching Ontology with Temporal Commonsense for Low-Resource Audio Tagging. *In the Proceedings of CIKM 2021*.
30. Zilu Guo, Zhongqiang Huang, Kenny Q. Zhu*, Guandan Chen, Kaibo Zhang, Boxing Chen and Fei Huang. Automatic Paraphrasing via Sentence Reconstruction and Round-trip Translation. *In the Proceedings of IJCAI 2021*.
31. Yizhu Liu, Qi Jia and Kenny Q. Zhu*. Keyword-aware Abstractive Summarization by Extracting Set-level Intermediate Summaries. *In the Proceedings of WWW 2021*.
32. Zhiling Zhang and Kenny Q. Zhu*. Diverse and Specific Clarification Question Generation with Keywords. *In the Proceedings of WWW 2021*.
33. Siyu Ren and Kenny Q. Zhu*. Knowledge-Driven Distractor Generation for Cloze-Style Multiple Choice Questions. *In the Proceedings of AAAI 2021*.
34. Qi Jia, Hongru Huang and Kenny Q. Zhu*. DDRel: A new dataset for interpersonal relation classification in dyadic dialogues. *In the Proceedings of AAAI 2021*.

2020

35. Qi Jia, Yizhu Liu, Siyu Ren, Kenny Zhu* and Haifeng Tang. Multi-turn Response Selection using Dialogue Dependency Relations. *In the Proceedings of EMNLP 2020*.

36. Shanshan Huang, Kenny Q. Zhu*, Qianzi Liao, Libin Shen and Yinggong Zhao. Enhanced Story Representation by ConceptNet for Predicting Story Endings. *In the Proceedings of CIKM 2020*.
37. Xiaoqing Geng, Xiwen Chen, Kenny Q. Zhu*, Libin Shen and Yinggong Zhao. MICK: A Meta-Learning Framework for Few-shot Relation Classification with Small Training Data. *In the Proceedings of CIKM 2020*.
38. Xusheng Luo, Luxin Liu, Le Bo, Yuanpeng Cao, Yonghua Yang, Keping Yang and Kenny Q. Zhu. AliCoco: Alibaba E-Commerce Cognitive Concept Net. *In the Proceedings of SIGMOD 2020*.
39. Qi Jia, Mengxue Zhang, Shengyao Zhang and Kenny Q. Zhu*. Matching Questions and Answers in Dialogues from Online Forums. *In the Proceedings of ECAI 2020*.

2019

40. Zuyi Bao, Rui Huang, Chen Li and Kenny Q. Zhu. Low-Resource Sequence Labeling via Unsupervised Multilingual Contextualized Representations. *In the Proceedings of EMNLP 2019*.
41. Xusheng Luo, Yonghua Yang, Kenny Q. Zhu, Yu Gong and Keping Yang. Conceptualize and Infer User Needs in E-commerce. *In the Proceedings of CIKM 2019*.
42. Yu Gong, Yu Zhu, Lu Duan, Qingwen Liu, Ziyu Guan, Fei Sun, Wenwu Ou, and Kenny Q. Zhu. Exact-K Recommendation via Maximal Clique Optimization. *In the Proceedings of KDD 2019*.
43. Kangqi Luo, Jinyi Lu, Kenny Q. Zhu*, Weiguo Gao, Jia Wei, and Meizhuo Zhang. Layout-aware information extraction from semi-structured medical images. *Computers in Biology and Medicine, Vol 107*.
44. Mengxue Zhang, Meizhuo Zhang, Chen Ge, Quanyang Liu, Jiemin Wang, Jia Wei and Kenny Q. Zhu*. Automatic Discovery of Adverse Reactions through Chinese Social Media. *Data Mining and Knowledge Discovery (DAMI), 2019*.
45. Ran Bai, Wing-Kai Hon, Eric Lo, Zhian He, Kenny Q. Zhu*. Historic Moments Discovery in Sequence Data. *ACM Trans. Database Systems 44(1), 2019*.
46. Zhuoyue Zhao, Jialing Pei, Kenny Q. Zhu*, Eric Lo, Chris Liu. InferSpark: Statistical Inference at Scale. *In the Proceedings of IEEE BigComp 2019*.
47. Yu Gong, Xusheng Luo, Kenny Q. Zhu, Wenwu Ou, Zhao Li, Lu Duan. Automatic Generation of Chinese Short Product Titles for Mobile Display. *In the proceedings of IAAI 2019*.
48. Yu Gong, Xusheng Luo, Yu Zhu, Wenwu Ou, Zhao Li, Muhua Zhu, Kenny Q. Zhu, Lu Duan and Xi Chen. Deep Cascade Multi-task Learning for Slot Filling in Online Shopping Assistant. *In the Proceedings of AAAI 2019*.
49. Zhiyi Luo, Shanshan Huang and Kenny Q. Zhu. Knowledge empowered prominent aspect extraction from product reviews. *In Journal of Information Processing and Management, 2019, Vol 55, Issue 2*.

2018

50. Yizhu Liu, Zhiyi Luo and Kenny Q. Zhu. Controlling Length in Abstractive Summarization Using a Convolutional Neural Network. *In the Proceedings of EMNLP 2018*.
51. Zhiyi Luo, Shanshan Huang, Frank F. Xu, Bill Yuchen Lin, Hanyuan Shi and Kenny Q. Zhu. ExtRA: Extracting Prominent Review Aspects from Customer Feedback. *In the Proceedings of EMNLP 2018*.
52. Kangqi Luo, Fengli Lin, Xusheng Luo and Kenny Q. Zhu. Knowledge Base Question Answering via Encoding of Complex Query Graphs. *In the Proceedings of EMNLP 2018*.
53. Junjie Xing, Kenny Q. Zhu and Shaodian Zhang. Adaptive Multi-Task Transfer Learning for Chinese Word Segmentation in Medical Text. *In the Proceedings of COLING 2018*.

54. Bill Y. Lin, Frank F. Xu, Kenny Q. Zhu and Seung-won Hwang. Mining Cross-Cultural Differences and Similarities in Social Media. *In the Proceedings of ACL 2018*.
55. Frank F. Xu, Bill Y. Lin, and Kenny Q. Zhu. Automatic Extraction of Commonsense Located Near Knowledge. *In the Proceedings of ACL 2018*.
56. Wenjing Fang, Jun Zhou, Xiaolong Li and Kenny Q. Zhu. Unpack Local Model Interpretation for GBDT. *In the Proceedings of DASFAA 2018 (Industrial Track)*.
57. Yuding Liang and Kenny Q. Zhu. Automatic Generation of Text Descriptive Comments for Code Blocks. *In the Proceedings of AAAI 2018*.
58. Xusheng Luo, Kangqi Luo, Xianyang Chen and Kenny Q. Zhu. Cross-Lingual Entity Linking for Web Tables. *In the Proceedings of AAAI 2018*.

2017

59. Bill Y. Lin, Frank F. Xu, Zhiyi Luo and Kenny Q. Zhu. Multi-channel BiLSTM-CRF Model for Emerging Named Entity Recognition in Social Media. *In the Proceedings of EMNLP WNUT 2017*.
60. Kangqi Luo, Xusheng Luo, Xianyang, Chen and Kenny Q. Zhu*. A Data-Driven Approach to Infer Knowledge Base Representation For Natural Language Relations. *In the Proceedings of IJCAI 2017*.
61. Wentao Wu, Hongsong Li, Haixun Wang and Kenny Q. Zhu*. Semantic Bootstrapping: A Theoretical Perspective. *In the Proceedings of ICDE 2017 (TKDE Posters)*.

2016

62. Wentao Wu, Hongsong Li, Haixun Wang and Kenny Q. Zhu*. Semantic Bootstrapping: A Theoretical Perspective. *In IEEE TKDE 2016*.
63. Wenjing Fang, Yizhong Wang and Kenny Q. Zhu*. Towards Non-projective High-Order Dependency Parser. *In the Proceedings of COLING 2016*.
64. Shi Feng, Shujie Liu, Nan Yang, Mu Li, Ming Zhou and Kenny Q. Zhu. Improving Attention Modeling with Implicit Distortion and Fertility for Machine Translation. *In the Proceedings of COLING 2016*.
65. Frank F. Xu, Bill Y. Lin, Qi Lu, Yifei Huang and Kenny Q. Zhu*. Cross-region Traffic Prediction for China on OpenStreetMap. *In the Proceedings of IWCTS 2016*.
66. Dong Xu, Meizhuo Zhang, Yanping Xie, Fan Wang, Ming Chen, Kenny Q. Zhu* and Jia Wei*. DTMiner: Identification of potential disease targets through biomedical literature mining. *In Bioinformatics 2016*.
67. Zhiyi Luo, Yuchen Sha, Kenny Q. Zhu*, Seung-Won Hwang and Zhongyuan Wang. Commonsense Causal Reasoning between Short Texts. *In KR 2016*.
68. Yu Gong, Kaiqi Zhao and Kenny Q. Zhu*. Representing Verbs as Argument Concepts. *In the Proceedings of AAAI 2016*.

2015

69. Dong Xu, Meizhuo Zhang, Tianwan Zhao, Chen Ge, Weiguo Gao, Jia Wei and Kenny Q. Zhu*. Data-Driven Information Extraction from Chinese Electronic Medical Records. *In PLOS ONE, August, 2015*.
70. Kangqi Luo, Xusheng Luo and Kenny Q. Zhu. Inferring Binary Relation Schemas for Open Information Extraction. *In the Proceedings of EMNLP 2015*.
71. Peipei Li, Haixun Wang, Kenny Q. Zhu, Zhongyuan Wang, Xuegang Hu, Xindong Wu. A Large Probabilistic Semantic Network based Approach to Compute Term Similarity. *In the Transaction of Knowledge and Data Engineering (TKDE), 27(5), 2015*.

72. Keyang Zhang, Kenny Q. Zhu* and Seung-Won Hwang. An Association Network for Computing Semantic Relatedness. *In the Proceedings of AAAI 2015*.
73. Ke Wu, Song Yang and Kenny Q. Zhu*. False Rumor Detection on Sina Weibo by Propagation Structures. *In the Proceedings of ICDE 2015*.
74. Kaiqi Zhao, Gao Cong, Quan Yuan and Kenny Q. Zhu. SAR: A Sentiment-Aspect-Region Model for User Preference Analysis in Geo-tagged Reviews. *In the Proceedings of ICDE 2015*.

2014

75. Kaiqi Zhao, Zhiyuan Cai, Qingyu Sui, Enxun Wei and Kenny Q. Zhu*. Clustering Image Search Results by Entity Disambiguation. *In the Proceedings of ECML/PKDD 2014*.
76. Xinhui Xu, Chao Pan, Xiao Jia, Kenny Q. Zhu* and Eric Lo. ρ -uncertainty Anonymization by Partial Suppression. *In the Proceedings of DASFAA 2014*.
77. Petrie Wong, Duncan Yung, Ming Hay Luk, Man Lung Yiu, Eric Lo and Kenny Q. Zhu. Efficient Processing of Which-Edge Questions on Shortest Path Queries. *In the Proceedings of DASFAA 2014*.
78. Hongsong Li, Kenny Q. Zhu and Haixun Wang. Data-Driven Metaphor Recognition and Explanation. *In the Transactions of ACL, Vol 1. Appeared at ACL 2014*.

2013

79. Jack Wei Sun, Franky, Kenny Q. Zhu* and Haixun Wang. Query Suggestion by Concept Instantiation. *In the Proceedings of ISWC 2013*.
80. Zhiyuan Cai, Kaiqi Zhao, Kenny Q. Zhu* and Haixun Wang. Wikification via Link Co-occurrence. *In the Proceedings of ACM CIKM 2013*.
81. Peipei Li, Haixun Wang, Kenny Q. Zhu, Zhongyuan Wang and Xindong Wu. Computing Term Similarity by Large Probabilistic isA Knowledge. *In the Proceedings of ACM CIKM 2013*.
82. Kai Jiang, Kenny Q. Zhu*, Yan Huang and Xiaobin Ma. Watermarking Road Maps against Crop and Merge Attacks. *In the Proceedings of ACM IH&MMsec 2013*.
83. Kaiqi Zhao, Enxun Wei, Qingyu Sui, Kenny Q. Zhu* and Eric Lo. CISC: Clustered Image Search by Conceptualization. *In the Proceedings of EDBT 2013*.
84. Zhixian Zhang, Kenny Q. Zhu*, Haixun Wang, Hongsong Li. Automatic Extraction of Top-k Lists from the Web. *In the Proceedings of ICDE 2013*.

2012

85. Yue Wang, Hongsong Li, Haixun Wang and Kenny Q. Zhu*. Toward Topic Search on the Web. *In the Proceedings of ER 2012*.
86. Jingjing Wang, Haixun Wang, Zhongyuan Wang and Kenny Q. Zhu*. Understanding Tables on the Web. *In the Proceedings of ER 2012*.
87. Zhixian Zhang, Kenny Q. Zhu*, Haixun Wang. A System for Extracting Top-K Lists from the Web. *In the Proceedings of ACM KDD 2012*.
88. Xiao Jia, Kenny Q. Zhu*, Joxan Jaffar, Roland H.C. Yap. A Runtime System for Generalized Committed Choice. *In the Proceedings of ACM Asia-Pacific Programming Language and Compilers Workshop (APPLC'12, affiliated with PLDI 2012)*.
89. Wentao Wu, Hongsong Li, Haixun Wang, Kenny Q. Zhu. Probase: A Probabilistic Taxonomy for Text Understanding. *In the Proceedings of ACM SIGMOD 2012*.

90. Kenny Q. Zhu, Kathleen Fisher and David Walker. LearnPADS++: Incremental Inference of Ad Hoc Data Formats. *In the Proceedings of 14th International Symposium of Practical Aspects of Declarative Languages (PADL 2012)*.

2011

91. Pengcheng Wang, Zhaoyu Gao, Xinhui Xu, Yujiao Zhou, Haojin Zhu and Kenny Q. Zhu*. Automatic Inference of Movements from Contact Histories. *In the Proceedings of ACM SIGCOMM 2011*.
92. Kathleen Fisher, Nate Foster, David Walker and Kenny Q. Zhu. Forest: A Language and Toolkit For Programming with Filestores. *In the Proceedings of 16th ACM International Conference on Functional Programming, ICFP 2011*.

2010 and earlier

93. Kenny Q. Zhu, Kathleen Fisher and David Walker. Incremental Learning of System Log Formats. *ACM SIGOPS Operating Systems Review. Volume 44, Issue 1, Jan, 2010*.
94. Kenny Q. Zhu, Kathleen Fisher, and David Walker. Incremental Learning of System Log Formats. *In the Proceedings of SOSP Workshop of Analysis of System Logs, WASL 2009*.
95. Kenny Q. Zhu, Daniel S. Dantas, Kathleen Fisher, Limin Jia, Yitzhak Mandelbaum, Vivek Pai and David Walker. Language Support for Processing Distributed Ad Hoc Data. *In the Proceedings of 11th International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming, PPDP 2009*.
96. Kathleen Fisher, David Walker, Kenny Q. Zhu* and Peter White. From Dirt to Shovels: Fully Automatic Tool Generation from Ad Hoc Data. *ACM SIGPLAN Notices. Volume 43, Issue 1, pp. 421–434*.
97. Qian Xi, Kathleen Fisher, David Walker and Kenny Q. Zhu. Ad Hoc Data and the Token Ambiguity Problem. *In the Proceedings of 11th International Symposium on Practical Aspects of Declarative Languages, PADL 2009*.
98. Kathleen Fisher, David Walker and Kenny Q. Zhu*. LearnPADS: Fully Automatic Tool Generation from Ad Hoc Data. *In the Proceedings of ACM SIGMOD 2008, pp.1299–1302*.
99. Kathleen Fisher, David Walker, Kenny Q. Zhu* and Peter White. From Dirt to Shovels: Fully Automatic Tool Generation from Ad Hoc Data. *In Proceedings of the 35th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages, POPL 2008, pp.421–434*.
100. David Burke, Kathleen Fisher, David Walker, Peter White and Kenny Q. Zhu. Towards 1-click Tool Generation with PADS. *ICML Workshop on Challenges and Applications of Grammar Induction, 2007*.
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