

Chen Zheng

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Education

Michigan State University			08/2019-Now
Degree: Ph.D.	Major: Computer Science		
Advisor: Parisa Kordjamshidi			
Research: NLP (Nature Language Processing), Visual Question Answering			
Tulane University			08/2018-05/2019
Ph.D. Student	Major: Computer Science	Overall GPA: 3.5/4.0	
Binghamton University			08/2015-12/2017
Degree: Master	Major: Computer Science	Overall GPA: 3.6/4.0	
Advisor: Zhongfei(Mark) Zhang			
Research: NLP (Nature Language Processing), Machine Learning, Deep Learning			
Tianjin Polytechnic University			09/2010-06/2014
Degree: Bachelor	Major: Software Engineering	Overall GPA: 3.5/4.0	
Advisor: Weidong Min			
Research: Struts2, Hibernate, Spring3, Machine Learning			

Publication

- Zheng, C., Yu, S., Shengxian W., and Dianhai Yu. 2019. RLTM: An Efficient Neural IR Framework for Long Documents. IJCAI 2019.
- Zheng, C., Zhai, S., and Zhang, Z. 2017. A Deep Learning Approach for Expert Identification in Question Answering Communities. arXiv preprint arXiv: 1711.05350.

Internship Experience

Internship in Information Retrieval group, JD Inc.	06/2019-08/2019
• Designing a Deep Learning model to solve the IR problem.	
• Dataset: JD shopping log.	
• State-of-the-art performance in NDCG and MAP.	
Internship in NLP group, Baidu Inc.	01/2018-07/2018
• Developing a Deep Learning based semantic matching method to solve the Learn-to-Rank problem.	
• Dataset: Baidu Clickthrough dataset.	
• State-of-the-art performance in NDCG and MAP. The paper published in IJCAI 2019.	

Research Experience

Cross-Modality Relevance for Reasoning on Language and Vision	09/2019-12/2019
• We propose a cross-modality relevance framework that considers entity relevance and high-order relational relevance between the two modalities with an alignment of representation spaces.	
• Dataset: NLVR, VQA.	
Spatial Semantic Representation on Language and Vision	09/2018-05/2019
• In this work, we propose a novel end-to-end deep learning and reasoning model with explicit spatial semantics, called DeepSpRQL, for joint language and vision understanding.	
• Dataset: NLVR.	
A Deep Learning Approach for Expert Identification in Question Answering Communities	08/2016-05/2017
• Building up a language model to implement expert identification in QA communities.	
• Natural Language Processing technologies, such as Word2vec, Glove, DeepWalk, and some Deep Learning technologies, such as Convolutional neural network, Recurrent neural network	
• Dataset: Stack Overflow community, Zhihu question-answering community	
• The top-1 test accuracy outperforms all of the baselines. The paper published in arXiv.	
Design and Development of Pet Shop Trade System Based on Java Web	02/2014-04/2014
• Front-end Design and implement with HTML/CSS, JavaScript, JQuery.	
• Backend Design and implementation with Struts2, Hibernate, Spring3.	
• Relational Database: MySQL, NoSql Database: Redis	
• Full-Stack design and implementation of recommendation system(Mahout) and search engine(Lucene).	
• Introduced open platform, which can log into the account via Facebook and Tencent account.	

Special Skills

- Programming language: Java, Python, SQL
- Deep learning Framework: TensorFlow, Pytorch, AllenNLP
- Machine Learning: NLP Algorithms and Machine Learning Algorithms.
- Big Data: Hive, Pig, MapReduce.