Wenhao Yu

CONTACT
INFORMATION

355 FitzPatrick Hall
Department of Computer Science and Engineering
University of Notre Dame, IN 46556, US

Phone: (+1) (574) 292-6516

E-mail: wyu1@nd.edu

RESEARCH
INTERESTS

- Text Mining
- Machine Learning

- Intention analysis
- Text Generation

EDUCATION
EXPERIENCE

University of Notre Dame, IN, US   August 2019 - Now
Ph.D. in Computer Science and Engineering   GPA: 4.0/4.0
  - Advisor: Professor Meng Jiang

Sichuan University, Chengdu, China   August 2015 – July 2019
B.E. in Computer Science and Technology   GPA: 3.8/4.0

PUBLICATIONS

[C3] **Wenhao Yu**, Mengxia Yu, Tong Zhao, Meng Jiang. "Identifying Referential Intention with Heterogeneous Contexts", in Proceeding of International World Wide Web Conference (**WWW**), 2020.

[C2] **Wenhao Yu**, Wei Peng, Yu Shu, Qingkai Zeng, Meng Jiang. "Experimental Evidence Extraction in Data Science with Hybrid Table Features and Ensemble Learning", in Proceeding of International World Wide Web Conference (**WWW**), 2020.

[W2] **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 AAAI Conference on Artificial Intelligence (**AAAI**), 2020.

[W1] 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.

[C1] **Wenhao Yu**, Zongze Li, Qingkai Zeng and Meng Jiang. "Tablepedia: Automating PDF Table Reading in an Experimental Evidence Exploration and Analytic System," in Proceeding of International World Wide Web Conference (**WWW**), 2019.

PAPER UNDER
REVIEW

[C3] Qingkai Zeng, Mengxia Yu, Wei Peng, Tianwei Jiang, **Wenhao Yu**, Tim Weninger, Meng Jiang. "Amending a Popular Dataset and Improving Scientific Entity Recognitionwith No-Schema Distant Supervision", **under review** at Annual Conference of the Association for Computational Linguistics (**ACL**), 2020.

[C2] Qingkai Zeng, **Wenhao Yu**, Mengxia Yu, Wei Peng, Tianwei Jiang, Tim Weninger, Meng Jiang. "Distant Supervision for Scientific Entity Recognition and EmpiricalInvestigation on Various Options", **under review** at Annual Conference of the Association for Computational Linguistics (**ACL**), 2020.

[C1] **Wenhao Yu**, Lingfei Wu, Qingkai Zeng, Shu Tao, Yu Deng, Meng Jiang. "Crossing Variational Autoencoders for Answer Retrieval", **under review** at Annual Conference of the Association for Computational Linguistics (**ACL**), 2020.

PROJECTS

Tablepedia: Automatic Table Reading for Experimental Evidence
Supervised by Prof. Meng Jiang   July 2018 - September 2019
  - Proposed an experimental evidence extraction system to automate the integration of tables (in the paper PDFs) into a database of experimental results.
  - Proposed hybrid features including structural and semantic table features as

well as an ensemble learning approach for table unification.

Identifying Referential Intention with Heterogenerous Contexts
Supervised by Prof. Meng Jiang   July 2019 - December 2019
- Proposed a neural framework with Interactive Hierarchical Attention to identify intentions of referential behavior by aggregating heterogeneous contexts.

Complex Question Answering Generation for Tech Support
Supervised by Prof. Meng Jiang and Dr. Lingfei Wu   July 2019 - Now
- Proposed to *cross* variational auto-encoders by generating questions with aligned answers and generating answers with aligned questions, which outperforms the state-of-the-art answer retrieval method on SQuAD.

TEACHING EXPERIENCE

ND CSE-40647/60647: Data Science   Fall 2019
- Teaching assistant for Professor Meng Jiang

HONORS AND AWARDS

Tang Lixin Excellent Student Scholarship (0.1%)   2018
National Undergraduate Scholarship of China (1%)   2017

TECHNICAL STRENGTHS

Programming Languages: Python, MATLAB, C++
Deep Learning Platforms: PyTorch, TensorFlow, Keras
Computer Skills: Git, LaTeX, Linux, Keynotes, MS Offices

PROFESSIONAL SERVICES

Invited Reviewer of ACM Transactions on Knowledge Discovery from Data (TKDD)

Student Conference Reviewer
- WWW 2020   - WSDM 2020   - EMNLP 2019

(Last updated on January 13, 2020)