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Education

University of Washington Seattle, WA

PHD CANDIDATE, ELECTRICAL & COMPUTER ENGINEERING DEPARTMENT

2018 - PRESENT

• Advisors: Mari Ostendorf & Hannaneh Hajishirzi (NLP Research Group)

University of Illinois Urbana, IL

M.S. IN COMPUTER SCIENCE

2016 - 2018

• Advisor: Jiawei Han (Data Mining Research Group)

University of Illinois Urbana, IL

B.S. IN ELECTRICAL ENGINEERING, WITH MINORS IN COMPUTER SCIENCE, MATH AND BUSINESS

2010 - 2014

Honors & Awards

2018 University of Washington Top Scholar Recruitment Fellowship

2017 SIGIR Student Travel Grant

2014 Highest Honor Graduate

2014 James Scholar

2010-2014 Dean's list

2014 Brian & Sophie Leung Scholarship

2013 Professor N. Narayana Rao Scholarship

Publications

A controllable model of grounded response generation

Z. Wu, M. Galley, C. Brockett, Y. Zhang, X. Gao, C. Quirk, R. K. Kedziorski, J. Gao, H. Hajishirzi, M. Ostendorf, B. Dolan. *Preprint*.

Extracting Summary Knowledge Graphs from Long Documents

Z. Wu, R. K. Kedziorski, M. Ostendorf, H. Hajishirzi. *Preprint.*

HiExpan: Task-Guided Taxonomy Construction by Hierarchical Tree Expansion

J. Shen, Z. Wu, D. Lei, C. Zhang, X. Ren, M. T. Vanni, B. M. Sadler and J. Han. KDD, 2018.

Indirect Supervision for Relation Extraction Using Question-Answer Pairs

Z. Wu, X. Ren, F. F. Xu, J. Li, J. Han. WSDM, 2018.

SetExpan: Corpus-Based Set Expansion via Context Feature Selection and Rank Ensemble

J. Shen*, Z. Wu*, D. Lei, J. Shang, X. Ren, J. Han. *ECML-PKDD*, 2017.

CoType: Joint Extraction of Typed Entities and Relations with Knowledge Bases

X. Ren, Z. Wu, W. He, M. Qu, C. R. Voss, H. Ji, T. F. Abdelzaher, J. Han. WWW, 2017.

Life-iNet: A Structured Network-Based Knowledge Exploration and Analytics System for Life Sciences

X. Ren, J. Shen, M. Qu, X. Wang, Z. Wu, Q. Zhu, M. Jiang, F. Tao, S. Sinha, D. Liem, P. Ping, R. Weinshilboum, J. Han. (system demo) ACL, 2017.

Research Experience _____

UW NLP Research Group

Seattle, WA

Advisors: Mari Ostendorf & Hannaneh Hajishirzi

Fall 2018 – Present

- Built a *grounded response generation system* by leveraging question-answering techniques to identify salient information from grounding for response generation.
- Proposed a new text-to-data task, *document summarization using structured relational graphs*, together with evaluation metrics for the task. Implemented and assessed strong baselines as well as a new approach based on graph learning.
- Proposed to apply dialogue state tracking techniques to do early *conversations summarization with structures*, which would be used for response generation in the target conversation.

Microsoft Research NLP Team

Redmond, WA

MENTORS: MICHEL GALLEY & BILL DOLAN

Summer 2019 & Summer 2020

- Built a *controllable and knowledge-grounded dialogue response generation model* and analyzed how adding control and grounding leads to better generated responses.
- Proposed the task and evaluation metrics of template induction from similar documents to assist user writing, and built strong baselines for it.

UIUC Data Mining Research Group

Urbana, IL

ADVISOR: JIAWEI HAN

Fall 2016 – Spring 2018

- Improved distantly supervised information extraction (detection/classification of entities and relation triples in unstructured text corpora), which replaces human annotation with linking to knowledge bases, by developing noise-robust systems that extract entities and relations
- Designed and built systems that facilitate automatic *faceted taxonomy construction* from any given text corpus in scientific domains, with a small number of user-provided seed examples.

UIUC MRI Lab

ADVISOR: ZHI-PEI LIANG

Spring 2012 - Summer 2012

· Applied signal processing techniques to optimize real-time cardiac image reconstruction and de-noise dynamic MRI.

Industry Experience

IXL Learning San Mateo, CA

SOFTWARE ENGINEER, PRODUCT TEAM

2015 - 2016

• Maintained and developed IXL web education application and data analysis reporting systems.

Goldman Sachs New York, NY

SOFTWARE ENGINEER, FIXED INCOME PRODUCTS TEAM

Summer 2013 & 2014 - 2015

- Built a market data monitoring system to inform high frequency traders of data trustworthiness.
- Developed the scalable fixed-income trading applications for daily trading, clearing and reporting.

Altera Corporation San Jose, CA

SOFTWARE ENGINEER INTERN, FPGA COMPILER TEAM

Fall 2012

• Worked on FPGA synthesis optimization and language extraction.

Teaching Experience

EE 511 (Introduction to Statistical Learning), UW ECE Department

Seattle, WA

TEACHING ASSISTANT

Winter 2019

CS 412 (Introduction to Data Mining), UIUC CS Department

Urbana, IL

TEACHING ASSISTANT

Fall 2016 & Spring 2018

Miscellaneous_

Sep 2020 Nominee, Microsoft Research AI Breakthroughs Workshop

Redmond, WA

2017-2018 Visitor Coordinator, Data Mining Research Group

Urbana, IL

2011-2012 Alumni Chair, Women in Electrical and Computer Engineering

Urbana, IL