

215A EE/CSE, University of Washington, Seattle, WA 98195

□ (+1) 650-391-8762 | ☑ zeqiuwu1@uw.edu | 🌴 ellenmellon.github.io | 🖫 ellenmellon | 🛅 zeqiuwu1

My current research is focused on designing algorithms for language/knowledge representation to facilitate downstream applications like dialogue, question answering systems. I am actively looking for summer internships in relevant areas.

Education

University of Washington

Seattle, WA

PHD IN ELECTRICAL & COMPUTER ENGINEERING

2018 - PRESENT

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

Urbana, IL

M.S. IN COMPUTER SCIENCE (CGPA 3.93/4.0)

2016 - 2018

• Advisor: Jiawei Han (Data Mining Research Group)

University of Illinois

Urbana, IL

B.S. IN ELECTRICAL ENGINEERING (CGPA 3.93/4.0), WITH MINORS IN COMPUTER SCIENCE, MATH AND BUSINESS

2010 - 2014

• Highest Honor Graduate, James Scholar, Dean's list

Awards

- 2018 University of Washington Top Scholar Recruitment Fellowship
- 2017 SIGIR Student Travel Grant
- 2014 Brian & Sophie Leung Scholarship
- 2013 Professor N. Narayana Rao Scholarship

Publications

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*, $\underline{Z.Wu}^*$, 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.

Improving Question Answering Sentence Ranking by Rank Propagation

H. Ng, X. Wang, X. Zhang, $\underline{\text{Z. Wu}}$. KBCOM Workshop at WSDM, 2018.

Research Experience

UW NLP Research Group

Seattle, WA

Advisors: Mari Ostendorf & Hannaneh Hajishirzi

Fall 2018 – Present

- Work on projects with the aim to enrich information in automatically generated responses from *context-grounded dialogue systems*, by incorporating contextual and external knowledge (in both structured and unstructured forms).
- Analyze various neural network structures that take both dialogue history and contextual information (to which the dialogue is grounded) as inputs, and generate the next dialogue response.

UIUC Data Mining Research Group

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 extracts 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

Urbana, IL

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

Industry Experience _____

GrapeTechShanghai, China

Co-Founder

- GrapeTech was a startup in Shanghai, providing a platform HackX to promote technology innovation.
- · Helped organizing Hackathon events, building business connections and launching the website for HackX.

IXL Learning San Mateo, CA

SOFTWARE ENGINEER, PRODUCT TEAM

2015 - 2016

2016 - 2018

• 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 next-gen, scalable fixed-income trading applications for daily trading, clearing and reporting.

Altera Corporation San Jose, CA

SOFTWARE ENGINEER INTERN, FPGA COMPILER TEAM

Fall 2012

Urbana, IL

• Worked on FPGA synthesis optimization and language extraction.

Teaching Experience

CS 412 (Data Mining)

TEACHING ASSISTANT Fall 2016 & Spring 2018

Miscellaneous_

2017-2018 Visitor Coordinator, Data Mining Research Group Urbana, IL

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

Member, UIUC Silicon Valley Workshop Urbana, IL

2010-2014 Member, Phi Eta Sigma Honor Society

Urbana, IL