

# Zequiu (Ellen) Wu

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## Education

### University of Illinois at Urbana-Champaign

**Master of Science in Computer Science**  
CGPA 4.0/4.0

2016 - 2018

**Bachelor of Science in Electrical Engineering**

2010 - 2014

Minors in Computer Science, Math and Business

CGPA 3.93/4.00, Highest Honor Graduate, James Scholar, Dean's list 2010-2013

## Awards

SIGIR Student Travel Grant, 2017

Brian & Sophie Leung Scholarship, 2014

Professor N. Narayana Rao Scholarship, 2013

## Publications

**Indirect Supervision for Relation Extraction Using Question-Answer Pairs**

Zequiu Wu, Xiang Ren, Frank F. Xu, Ji Li, Jiawei Han. **WSDM**, 2018.

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

Jiaming Shen\*, Zequiu Wu\*, Dongming Lei, Jingbo Shang, Xiang Ren, Jiawei Han. **ECML-PKDD**, 2017.

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

Xiang Ren, Zequiu Wu, Wenqi He, Meng Qu, Clare R. Voss, Heng Ji, Tarek F. Abdelzaher, Jiawei Han. **WWW**, 2017.

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

Xiang Ren, Jiaming Shen, Meng Qu, Xuan Wang, Zequiu Wu, Qi Zhu, Meng Jiang, Fangbo Tao, Saurabh Sinha, David Liem, Peipei Ping, Richard Weinshilboum, Jiawei Han. (system demo) **ACL**, 2017.

**Improving Question Answering Sentence Ranking by Rank Propagation**

Hong-Wei Ng, Xiaoxiao Wang, Xinyu Zhang, Zequiu Wu. **KBCOM Workshop at WSDM**, 2018.

## Research Experience

**Research Assistant, UIUC Data Mining Research Group**

Fall 2016 - Present

- *Advisor*: Professor Jiawei Han
- 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 a domain-independent, noise-robust system that jointly extracts entities and relations
- Further improved noise handling in distantly supervised information extraction by introducing indirect supervision from datasets of other tasks

- Designed a model that expands a small set of entities into the full set containing semantically similar entities from a given text corpus and addressed the issue of semantic drift by introducing rank ensemble
- Worked on follow-up projects of set expansion towards the final goal of generating faceted taxonomy from any given text corpus in scientific domains

### **Research Assistant, UIUC MRI Lab**

**Spring - Summer 2012**

- *Advisor:* Professor Zhi-Pei Liang
- Applied signal processing techniques to optimize real-time cardiac image reconstruction and de-noise dynamic MRI

### **Research Assistant, UIUC Industrial Engineering Department**

**Spring 2012**

- *Advisor:* Professor Liming Feng
- Applied Gil-Pelaez and Hilbert models to achieve fast simulations of various financial statistical distributions

## **Teaching Experience**

### **Teaching Assistant, UIUC (CS 412: Data Mining)**

**Fall 2016**

## **Industry Experience**

### **Business/Technology Strategist, GrapeTech**

**2016 - Present**

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

### **Software Engineer, IXL Learning (*Team: Product Engineering*)**

**2015 - 2016**

- Maintained and developed IXL web education application and data analysis reporting systems

### **Software Engineer, Goldman Sachs (*Team: Fixed Income Products*)**

**Summer 2013 & 2014 - 2015**

- Designed and 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

### **Software Engineer Intern, Altera Corporation (*Team: FPGA Compiler*)**

**Fall 2012**

- Worked on FPGA synthesis optimization and language extraction

## **Services**

### **Visitor Coordinator, Data Mining Research Group**

**2017 - Present**

### **Alumni Chair, Women in Electrical and Computer Engineering**

**2011- 2012**

### **Member, UIUC Silicon Valley Workshop**

**2012**

### **Member, Phi Eta Sigma Honor Society**

**2010 - 2014**