

# Victoria X. Lin

RESEARCH SCIENTIST

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## Research Interest

Natural Language Understanding, AI for Productivity, AI Fairness

## Work Experience

### Salesforce Research

Palo Alto, CA, USA

RESEARCH SCIENTIST

Oct. 2017 - PRESENT

- Push forward the frontier of natural language understanding research with a focus on semantic parsing and question answering
- Discover new research problems in AI for productivity, create new benchmark datasets and propose new models
- Collaborate with the wider research community

### Microsoft Research

Redmond, WA, USA

RESEARCH INTERN

Jun. 2015 - Sep. 2015

- Collaborate with senior researchers on machine reading for precision medicine
- Develop novel algorithms and reproduce baselines for relation extraction from embedded knowledge graph and text

### Allen Institute for Artificial Intelligence

Seattle, WA, USA

RESEARCH INTERN

Jul. 2014 - Sep. 2014

- Collaborate with senior researchers on machine reading for science exam question answering
- Design and experiment with information extraction approaches that populate hand-engineered physics knowledge schema for answering complex physics questions

## Education

### University of Washington

Seattle, WA, USA

PH.D. GRADUATED AS M.SC. IN COMPUTER SCIENCE

Aug. 2017

### University of Pennsylvania

Philadelphia, PA, USA

PH.D. GRADUATED AS M.SC. IN COMPUTER SCIENCE

May. 2013

### University of Oxford

Oxford, UK

M.SC. IN COMPUTER SCIENCE

Sep. 2011

### The Hong Kong Polytechnic University

Kowloon, HK

B.ENG. IN ELECTRONIC AND INFORMATION ENGINEERING

Aug. 2010

### Xi'an Jiaotong University

Xi'an, Shaanxi, CN

SPECIAL CLASS FOR THE GIFTED YOUNG OF CHINA

Jan. 2008

## Conference Publications

### CoSQL: A Conversational Text-to-SQL Challenge Towards Cross-Domain Natural Language Interfaces to Databases

Tao Yu, Rui Zhang, Heyang Er, Suyi Li, Eric Xue, Bo Pang, Xi Victoria Lin, Yi Chern Tan, Tianze Shi, Zihan Li, Youxuan Jiang, Michihiro Yasunaga, Sungrok Shim, Tao Chen, Alexander Fabbri, Zifan Li, Luyao Chen, Yuwen Zhang, Shreya Dixit, Vincent Zhang, Caiming Xiong, Richard Socher, Walter Lasecki and Dragomir Radev

EMNLP 2019

### Editing-based SQL Query Generation for Cross-Domain Context-Dependent Questions

Rui Zhang, Tao Yu, Heyang Er, Sungrok Shim, Eric Xue, Xi Victoria Lin, Tianze Shi, Caiming Xiong, Richard Socher and Dragomir Radev

EMNLP 2019

### SParC: Cross-Domain Semantic Parsing in Context

Tao Yu, Rui Zhang, Michihiro Yasunaga, Yi Chern Tan, Xi Victoria Lin, Suyi Li, Heyang Er, Irene Li, Bo Pang, Tao Chen, Emily Ji, Shreya Dixit, David Proctor, Sungrok Shim, Jonathan Kraft, Vincent Zhang, Caiming Xiong, Richard Socher, Dragomir Radev

ACL 2019

## Multi-Hop Knowledge Graph Reasoning with Reward Shaping

Xi Victoria Lin, Richard Socher and Caiming Xiong

EMNLP 2018

## NL2Bash: A Corpus and Semantic Parser for Natural Language Interface to the Linux Operating System

Xi Victoria Lin, Chenglong Wang, Luke Zettlemoyer and Michael D. Ernst

LREC 2018

## Compositional Learning of Embeddings for Relation Paths in Knowledge Bases and Text

Kristina Toutanova, Xi Victoria Lin, Scott Wen-tau Yih, Hoifung Poon and Chris Quirk

ACL 2016

## Workshop and Other Publications

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### Program Synthesis from Natural Language Using Recurrent Neural Networks

Xi Victoria Lin, Chenglong Wang, Deric Pang, Kevin Vu, Luke Zettlemoyer, Michael D. Ernst

UWCSE-TR 2017

### Multi-label Learning with Posterior Regularization

Xi Victoria Lin, Sameer Singh, Luheng He, Ben Taskar, and Luke Zettlemoyer

NIPS-MLNLP 2014

### Fine-grained Named Entity Classification in Machine Reading

Xi Victoria Lin

Oxford Thesis 2011

## Honors & Awards

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2014	<b>Travel Award</b> , NIPS Women in Machine Learning Workshop	<i>Montreal, Québec, CA</i>
2011	<b>Doctoral Fellowship</b> , University of Pennsylvania	<i>Philadelphia, PA, USA</i>
2010	<b>Best Academic Performance Award</b> , Department of Electronic and Information Engineering, HKPU	<i>Kowloon, HK</i>
2010	<b>Scholarship</b> , Hong Kong SAR Government	<i>Kowloon, HK</i>
2009	<b>Scholarship</b> , Hong Kong Polytechnic University Post-Entry	<i>Kowloon, HK</i>
2009	<b>Scholarship</b> , Hong Kong & Kowloon Electrical Appliances Merchants Association	<i>Kowloon, HK</i>
2009	<b>Student Travel Award</b> , Apple Worldwide Developers Conference	<i>San Francisco, CA, USA</i>

## Academic Services

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### REVIEWER

ICML	2019
ACL	2017, 2018, 2019
EMNLP	2015, 2016, 2017, 2018
NAACL	2019
COLING	2018
CoNLL	2018
AKBC	2016, 2017

## Teaching

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### CIS 520: Machine Learning

*University of Pennsylvania*

#### TEACHING ASSISTANT

*Sep. 2012 - Dec. 2012*

- Making exam problems; answering Piazza questions; holding office hours; grading

## Programming Skills

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<b>Deep Learning</b>	Pytorch, Tensorflow
<b>Languages</b>	Python, Java, C++, Matlab, R, Lua, Javascript, HTML5, CSS
<b>Web</b>	Django