Victoria X. Lin

RESEARCH SCIENTIST

575 High St., Palo Alto, CA 94301-1624, USA

✉ xilin@salesforce.com | 🏠 victorialin.net | todpole3 | in xivictorialin | 🐦 @VictoriaLinML

Research Interest

Natural Language Understanding, AI for Productivity, AI Fairness

Work Experience

Salesforce Research   *Palo Alto, CA, USA*

SENIOR RESEARCH STAFF   *Jun. 2018 - present*

RESEARCH SCIENTIST   *Oct. 2017 - Jun. 2018*

- Push the frontiers 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 and mentor research interns

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

Photon: A Robust Cross-Domain Text-to-SQL System.

Jichuan Zeng*, Xi Victoria Lin*, Steven C.H. Hoi, Caiming Xiong, Richard Socher, Michael R. Lyu, Irwin King   ACL 2020 Demo

Double-Hard Debias: Tailoring Word Embeddings for Gender Bias Mitigation

Tianlu Wang, Xi Victoria Lin, Nazeen Fatema Rajani, Bryan McCann, Vicente Ordonez and Caiming Xiong   ACL 2020

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, <u>Xi Victoria Lin</u>, 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, <u>Xi Victoria Lin</u>, 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

<u>Xi Victoria Lin</u>, Richard Socher and Caiming Xiong

EMNLP 2018

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

<u>Xi Victoria Lin</u>, Chenglong Wang, Luke Zettlemoyer and Michael D. Ernst

LREC 2018

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

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

ACL 2016

* Equal contribution

Workshop and Other Publications

Program Synthesis from Natural Language Using Recurrent Neural Networks

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

UWCSE-TR 2017

Multi-label Learning with Posterior Regularization

<u>Xi Victoria Lin</u>, Sameer Singh, Luheng He, Ben Taskar, and Luke Zettlemoyer

NIPS-MLNLP 2014

Fine-grained Named Entity Classification in Machine Reading

<u>Xi Victoria Lin</u>

Oxford Thesis 2011

Honors & Awards

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

Academic Services

Reviewer

ICML	2019
ACL	2017, 2018, 2019, 2020
EMNLP	2015, 2016, 2017, 2018, 2020
NAACL	2019
AACL	2020
COLING	2018
CoNLL	2018
AKBC	2016, 2017

Teaching

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

Languages	Python, Java, C++, Matlab, R, Lua, Javascript
Deep Learning	Pytorch, Tensorflow
Web	Django