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Research Interest_

Natural Language Understanding, Few-shot Learning, Self-supervised Learning

Work Experience ___

Facebook AI Research Menlo Park, CA, USA

SENIOR RESEARCH SCIENTIST

SENIOR RESEARCH STAFF

Jan. 2021 - present

· Research focusing on large-scale pre-training, few-shot learning and multilinguality

Salesforce Research Palo Alto, CA, USA

Jun. 2018 - Dec. 2020

· Natural language understanding research focusing on semantic parsing, natural language interface and question answering

· Natural language understanding research focusing on knowledge graph reasoning and question answering

Microsoft Research Redmond, WA, USA

RESEARCH INTERN Jun. 2015 - Sep. 2015

Allen Institute for Artificial Intelligence

Seattle, WA, USA Jul. 2014 - Sep. 2014

Oct. 2017 - Jun. 2018

RESEARCH INTERN

Conference Publications

FeTaQA: Free-form Table Question Answering

Linyong Nan, Chiachun Hsieh, Ziming Mao, Xi Victoria Lin, Neha Verma, Rui Zhang, Wojciech Kryściński, Nick Schoelkopf, Riley Kong, Xiangru Tang, Murori Mutuma, Ben Rosand, Isabel Trindade, Renusree Bandaru, Jacob Cunningham, Caiming Xiong, Dragomir Radev.

TACL 2021

GraPPa: Grammar-Augmented Pre-Training for Table Semantic Parsing

Tao Yu, Chien-Sheng Wu, Xi Victoria Lin, Bailin Wang, Yi Chern Tan, Xinyi Yang, Dragomir Radev, Richard Socher, Caiming Xiong

ICI R 2021

Learning to Synthesize Data for Semantic Parsing.

Bailin Wang, Wenpeng Yin, Xi Victoria Lin and Caiming Xiong.

NAACL 2021 short

DART: Open-Domain Structured Data Record to Text Generation

Linyong Nan, Dragomir Radev, Rui Zhang, Amrit Rau, Abhinand Sivaprasad, Chiachun Hsieh, Xiangru Tang, Aadit Vyas, Neha Verma, Pranav Krishna, Yangxiaokang Liu, Nadia Irwanto, Jessica Pan, Faiaz Rahman, Ahmad Zaidi, Mutethia Mutuma, Yasin Tarabar, Ankit Gupta, Tao Yu, Yi Chern Tan, Xi Victoria Lin, Caiming Xiong, Richard Socher and Nazneen Fatema Rajani.

NAACL 2021

Bridging Textual and Tabular Data for Cross-Domain Text-to-SQL Semantic Parsing

Xi Victoria Lin, Richard Socher, Caiming Xiong

EMNLP Findings 2020

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

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

ACL Demo 2020

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

ACI 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, 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 _

Testing Cross-Database Semantic Parsers Using Canonical Utterances.

Heather Lent, Semih Yavuz, Tao Yu, Tong Niu, Yingbo Zhou, Dragomir Radev, Xi Victoria Lin.

Eval4NLP 2021

NeurIPS 2020 NLC2CMD Competition: Translating Natural Language to Bash Commands.

Mayank Agarwal, Tathagata Chakraborti, Quchen Fu, David Gros, <u>Xi Victoria Lin</u>, Jaron Maene, Kartik Talamadupula, Zhongwei Teng, Jules White.

NeurIPS 2020 Competition Track

ColloQL: Robust Text-to-SQL Over Search Queries

Karthik Radhakrishnan, Arvind Srikantan, Xi Victoria Lin

Intex-Sempar 2020

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

NeurIPS-MLNLP 2014

Fine-grained Named Entity Classification in Machine Reading

Xi Victoria Lin

Oxford Thesis 2011

Patents ____

Multi-hop knowledge graph reasoning with reward shaping

Xi Victoria Lin, Richard Socher, Caiming Xiong

US Patent App. 16/051,309

Talks____

The Age of Data Conversation: Talk to Your Structured Data (invited talk)

Knowledge ConneXions 2020

Creating The Future Of AI: How Salesforce Research Advances AI For CRM (co-speaker)

Dreamforce 2019

Technical Writing

Talk to Your Data: One Model, Any Relational Database.

Finstein ai 2020

Software ___

Photon v1.1: https://naturalsql.com/

Salesforce, 2020

Photon is a deep learning based cross-domain natural language interface to databases that focuses on factual look-up questions. It allows end users to query a number of relational DBs in natural language, including DBs it has never been trained on.

Tellina is an end-user scripting assistant that can be queried via natural language. It translates a natural language sentence typed by the user into a piece of short, executable script.

Education

University of Washington

Seattle, WA, USA

Ph.D. GRADUATED AS M.Sc. IN COMPUTER SCIENCE

Aug. 2017

University of Pennsylvania

Philadelphia, PA, USA May. 2013

Ph.D. GRADUATED AS M.Sc. IN COMPUTER SCIENCE

University of Oxford M.Sc. IN COMPUTER SCIENCE Oxford, UK Sep. 2011

The Hong Kong Polytechnic University

Kowloon, HK

Aug. 2010

B.Eng. in Electronic and Information Engineering

Xi'an Jiaotong University

Xi'an, Shaanxi, CN

SPECIAL CLASS FOR THE GIFTED YOUNG

Jan. 2008

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

Service_

CO-CHAIR

System Demonstration Track

NAACL 2021

ORGANIZING COMMITTEE

1st Workshop on Interactive and Executable Semantic Parsing (Intex-Sempar)

EMNLP 2020

Competition for Automatic Translation of English to Bash (NLC2CMD)

NeurIPS 2020

PROGRAM COMMITTEE

2020 ACL, EMNLP, AACL, ACL-NLI

2019 ICML, ACL, NAACL

2018 ACL, EMNLP, COLING, CONLL

2017 ACL, EMNLP

EMNLP 2016

2015 **EMNLP**

Teaching_

CIS 520: Machine Learning

University of Pennsylvania

TEACHING ASSISTANT

Sep. 2012 - Dec. 2012

Programming Skills _____

Languages Python, Java, C++, Matlab, R, Lua, JavaScript, HTML, CSS

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

Deep Learning Pytorch, Tensorflow

Web Django