

SHUAICHEN CHANG

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Department of Computer Science and Engineering, The Ohio State University

<https://shuaichenchang.github.io/>

EDUCATION

The Ohio State University

Aug 2017 - Present

Ph.D. student in Computer Science and Engineering

GPA: 3.80/4.0

Fudan University

Sep 2013 - Jun 2017

Bachelor in Computer Science and Technology, Outstanding Student Honor Program

Major GPA: 3.81/4.0

EXPERIENCE

Research/Teaching Assistant, The Ohio State University

Aug 2017 - Present

Advisor: Eric Fosler-Lussier

Working on building robust and generalizable natural language interface to structure data (tables, databases, map images), including semantic parsing and multimodal question answering.

Applied Scientist Intern, Amazon AWS AI

May 2022 - Aug 2022

Mentor: Jun Wang, Patrick Ng, Zhiguo Wang

Designed and curated a diagnostic evaluation benchmark towards Text-to-SQL robustness.

Applied Scientist Intern, Amazon Alexa AI

May 2021 - Aug 2021

Mentor: Vaibhav Kumar, Sunghyun Park, Sungjin Lee

Worked on heterogeneous feature representation pre-training in large-scale conversational AI system.

Research and Development Intern, Pinterest

May 2020 - Aug 2020

Mentor: Supeng Ge, Mao Ye

Developed a unified ads retrieval model on different surfaces, outperformed the production model up to 15% on revenue and 10% on user engagement.

Research Intern, JD.com AI research

May 2018 - Aug 2018

Mentor: Jing Huang, Xiaodong He

Worked on converting natural language question to structured query (SQL) for unseen Database tables.

PUBLICATIONS

Dr.Spider: A Diagnostic Evaluation Benchmark towards Text-to-SQL Robustness

Pre-print

Shuaichen Chang, Jun Wang, Mingwen Dong, Lin Pan, Henghui Zhu, Alexander Hanbo Li, Wuwei Lan, Sheng Zhang, Jiarong Jiang, Joseph Lilien, Steve Ash, William Yang Wang, Zhiguo Wang, Vittorio Castelli, Patrick Ng, Bing Xiang

MapQA: A Dataset for Question Answering on Choropleth Maps

NeurIPS TRL workshop, 2022

Shuaichen Chang, David Palzer*, Jialin Li, Eric Fosler-Lussier, Ningchuan Xiao (* denotes equal contribution)*

ExplainaBoard: An Explainable Leaderboard for NLP

ACL, 2021

Pengfei Liu, Jinlan Fu, Yang Xiao, Weizhe Yuan, Shuaichen Chang, Junqi Dai, Yixin Liu, Zihuiwen Ye, Graham Neubig
Best Demo Paper

Prefix-to-SQL: Text-to-SQL Generation from Incomplete User Questions ACL NLP4Prog workshop, 2021

Naihao Deng, Shuaichen Chang, Peng Shi, Tao Yu, Rui Zhang

Did You Ask a Good Question? A Cross-Domain Question Intention Classification Benchmark for Text-to-SQL EMNLP IntEx-SemPar workshop, 2020

Yusen Zhang, Xiangyu Dong, Shuaichen Chang, Tao Yu, Peng Shi, Rui Zhang

Zero-shot Text-to-SQL Learning with Auxiliary Task

AAAI, 2020

Shuaichen Chang, Pengfei Liu, Yun Tang, Jing Huang, Xiaodong He, Bowen Zhou

Contextualized Non-local Neural Networks for Sequence Learning

AAAI, 2019

Pengfei Liu, Shuaichen Chang, Xuanjing Huang, Jian Tang, Jackie Chi Kit Cheung

TEACHING

Instructor, Introduction to Artificial Intelligence (CSE 3521)

Fall 2022

SELECTED AWARDS

Post-internship Fellowship, Amazon

2022

Best Demo Paper, ACL

2021

Honors Student in Top Talent Undergraduate Training Program, Fudan University

2017

National Scholarship, Ministry of Education of P.R.China

2016

National Scholarship, Ministry of Education of P.R.China

2015

Silver Medal in the ACM-ICPC Asia Regional, ACM-ICPC

2013

PROFESSIONAL SKILLS

Programming Languages

Python, C/C++, Java, SQL

Libraries

Pytorch, TensorFlow, Theano, OpenCV