

SHUAICHEN CHANG

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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

How to Prompt LLMs for Text-to-SQL: A Study in Zero-shot, Single-domain, and Cross-domain Settings Preprint 2023

Shuaichen Chang, Eric Fosler-Lussier

Dr.Spider: A Diagnostic Evaluation Benchmark towards Text-to-SQL Robustness ICLR 2023

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
Notable Top 5%

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
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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