

# SHUAICHEN CHANG

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## EDUCATION

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**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

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**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

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**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*  
**Top 5% (Oral)**

**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

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Instructor, Introduction to Artificial Intelligence (CSE 3521)

Fall 2022

## SELECTED AWARDS

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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

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**Programming Languages**

Python, C/C++, Java, SQL

**Libraries**

Pytorch, TensorFlow, Theano, OpenCV