Zhihan Zhou

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Personal Website / LinkedIn / Google Scholar

EDUCATION

Department of Computer Science, Northwestern University   09/2018 - Present

✧ Doctor of Philosophy, Computer Science (GPA: **4.0/4.0**)

✧ Master of Science, Computer Science (GPA: **4.0/4.0**)

   Advisor: Han Liu   Research Area: Natural Language Processing

School of Mathematical Sciences, Zhejiang University   09/2014 - 06/2018

✧ Bachelor of Science, Mathematics and Applied Mathematics

SELECTED PUBLICATIONS

✧ **Learning Dialogue Representations from Consecutive Utterances**

   Zhihan Zhou, Dejiao Zhang, Wei Xiao, Nicholas Dingwall, Xiaofei Ma, Andrew Arnold, Bing Xiang

   Proceedings of *NAACL 2022*

✧ **Trade the Event: Corporate Events Detection for News-based Event-driven Trading**

   Zhihan Zhou, Liqian Ma, Han Liu

   Proceedings of *ACL 2021, Findings*

✧ **DNABERT: Pre-trained Bidirectional Encoder Representation from Transformers for DNA Language Modeling in Genome**

   Yanrong Ji*, Zhihan Zhou*, Han Liu, Ramana V Davuluri (*: joint first author)

   Published on *Bioinformatics*, btab083, 2021

✧ **Few-shot Slot Tagging with Collapsed Dependency Transfer and Label-enhanced Task-adaptive Projection Network**

   Yutai Hou, Wanxiang Che, Yongkui Lai, Zhihan Zhou, Yijia Liu, Han Liu, Ting Liu

   Proceedings of *ACL 2020*

✧ **Joint Speaker Diarization and Recognition Using Convolutional and Recurrent Neural Networks**

   Zhihan Zhou, Yichi Zhang, Zhiyao Duan

   Proceedings of *ICASSP 2018*

WORK EXPERIENCE

Applied Scientist Intern @ AWS AI   09/2021 – 12/2021

✧ Conduct research project on Conversational AI.

✧ Perform large-scale contrastive conversational model pre-training to improve few-shot dialogue understanding.

Research Assistant @ MAGICS Lab, Northwestern University   01/2019 - Present

✧ Conducted multiple Research projects including but not limited to:

   Massive News Acquisition: Build a system that acquires news articles in real-time from 10000+ websites.

   Drug Repurposing: Exploit Graph Attention Network (GATs) to predict the relationships between drugs and diseases on a huge biologic knowledge graph which contains millions of nodes and tens of millions of edges.

   Virus Genome Analysis: Utilize Longformer-based language model to analyze the SARS_CoV_2 virus.

✧ Participate in the construction and maintenance of a private Kubernetes cluster consists of 14 nodes.

COMPUTER SKILLS

✧ Computer languages: Python, Java, R, Javascript, HTML, CSS, Matlab

✧ Skills: Kubernetes, Docker, Linux, MongoDB, React