

Zhihan Zhou

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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

PUBLICATIONS

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

Zhihan Zhou, Liqian Ma, Han Liu

Proceedings of *ACL 2021, Findings*

✧ 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*

✧ 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*, btob083, 2021

✧ ELLPMDA: Ensemble learning and link prediction for miRNA-disease association prediction

Xing Chen, Zhihan Zhou*, Yan Zhao (*: joint first author)*

Published on *RNA Biology*, pages 807-818, volume 15, 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