

# Zhihan Zhou

**Add:** 800 Hinman Avenue, Evanston, IL, USA 60202    **Tel:** (1) 224-420-0851

**Email:** zhihanzhou@u.northwestern.edu

## EDUCATION

---

### Department of Computer Science, Northwestern University

09/2018 - Present

✧ Doctor of Philosophy, Computer Science

✧ Master of Science, Computer Science

Advisor: Han Liu    GPA: 4.0/4.0

### School of Mathematical Sciences, Zhejiang University

09/2014 - 06/2018

✧ Bachelor of Science, Mathematics and Applied Mathematics

## PUBLICATIONS

---

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

*Zhihan Zhou, Yichi Zhang, Zhiyao Duan*

Proceedings of *ICASSP 2018*

✧ **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

✧ **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*

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

*Zhihan Zhou, Liqian Ma, Han Liu*

Proceedings of *ACL 2021, Findings*

## SELECTED EXPERIENCE

---

### Research Assistant @MAGICS Lab, Northwestern University

01/2019 - Present

✧ Conducted several NLP projects including but not limited to:

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

**Hedge Fund Question Answering:** Construct a database of hedgefunds by scraping and parsing their 13F forms from the SEC website. Employ the RASA NLU to simultaneously recognize the user intention and key entities from the question. Design a rule-based dialog management component for multi-round QA.

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

### Teaching Assistant @ Northwestern University

01/2019 - Present

✧ CS-496-20 Statistical Machine Learning & CS-496-21 Advanced Topics in Deep Learning:

- Give lectures about Recurrent Neural Networks, Transformer, and Natural Language Processing.
- Collaborate with students to conduct research on a wide range of topics

## COMPUTER SKILLS

---

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

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