

Han Zhou

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Research Interest: NLP, Knowledge Graph, Graph Neural Networks

EDUCATION

The University of Hong Kong

Sep.2018 - Dec.2020

Major: Master of Science in Computer Science

Southwestern University of Finance and Economics

Sep.2014 - Jun.2018

Major: Bachelor of Management in Info Management & Info System | GPA: 3.6/5.0 | Ranking: 11/120

PUBLICATIONS

[1] Incorporating Global information in local Attention for Knowledge Representation Learning.

Yu Zhao*, **Han Zhou***, Ruobing Xie, Fuzhen Zhuang, Qing Li, and Ji Liu. (* *Equal Contribution*)

Findings of ACL, 2021

[2] Connecting Embeddings Based on Multiplex Relational Graph Attention Networks for Knowledge Graph Entity Typing.

Yu Zhao, **Han Zhou**, Anxiang Zhang, Ruobing Xie, Qing Li, and Fuzhen Zhuang.

TKDE, 2022

RESEARCH EXPERIENCE

EI-Aware Graph Attention Network

Jan.2020 - Dec. 2021

Advisor: Dr. Yu Zhao (Fintech Lab, SWUFE)

- Proposed an *entity importance-aware attention graph neural network (EIGAT)*, prove the effectiveness of global information in knowledge representation learning;
- Proposed an *attention-based random walk* algorithm to estimate entity importance upon global structural information;
- Empirically demonstrate the effectiveness of our model, achieving the the SOTA performance on various benchmark of link prediction tasks;
- Paper link: <https://aclanthology.org/2021.findings-acl.115.pdf> (Accepted, Co-first Author)

Entity Typing on Heterogeneous Relational Graph

Jan.2020 - Dec. 2021

Advisor: Dr. Yu Zhao (Fintech Lab, SWUFE)

- Proposed a *multiplex relational graph attention neural network (MRGAT)*, integrated the heterogeneous structured information including entity typing tuples and entity relation triples theoretically;
- Empirically validated the effectiveness of *MRGAT*, against the the SOTA performance on various benchmark of entity type prediction and classification tasks;
- Paper link: <https://ieeexplore.ieee.org/abstract/document/9677939/> (Accepted, 2nd Author)

Text Analyze on Financial Statements

May.2019 - Nov. 2020

Advisor: Dr. Kyungran Lee. (Business School, HKU)

- Web crawling* and data cleaning on over 190k financial statements on websites using Python;
- Sentiment analysis* on the financial statements. Read related papers and compared financial word dictionaries;
- Extracted features for modeling. Applied *NLP toolkits* (Python), i.e., *NLTK*, *Spacy*, to achieve sentence segmentation, tokenization, word frequency statistic and pos-tagging tasks.

User Comments Analyze on Crowd Funding Platforms(SNU)

Aug.2016

- Crawled user comments from 5 crowd-funding platforms from mainland and Taiwan;
- Sentiment analysis on user comments;
- Built multiple regression model on user concerns and completion rate of crowd funding using SPSS.

WORKING EXPERIENCE

Baidu (China) Co., Ltd - Data Analyst

Dec.2020 - Now

Big Data Group, Global Product Center

- *Big data analysis.* Took charge of user profile construction, user behavior analysis and user retention promotion using HiveSQL/Python and big data analysis platforms.
- *Big data processing.* Took charge of data extraction, cleaning and integration on 10+ billion data. Designed and constructed data warehouse with 200+ features.
- *Big data platform.* Designed and led a team to build business intelligence platforms including AB Test Platform, User Profile Platform, Advertising Analysis Platform etc..

Chengdu Meng Xiang Technology Co., Ltd. - Data Analysis Intern

Oct.2017 - Feb.2018

- Redesigned week-data dashboards and analyzed business data by *SQL*, *Python*, and *Weka* and provided data analysis reports.

HONORS

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| • Excellent Staff (BAIDU) | 2022 |
| • Efficient Promotion Prize (BAIDU) | 2022 |
| • China Postgraduate Scholarships (HKU) | 2019 |
| • Excellent Students Awards (Top 5%, SWUFE) | 2017 |
| • The third prize of “Huadi Cup” Chinese Undergraduate Computer Design Contest, Sichuan Final | 2017 |
| • Individual Scholarship (Top 2% , SWUFE) | 2015 |
| • The Second Class Academic Scholarship (Top 10%, SWUFE) | 2015 |
| • The silver prize of “Internet+” Undergraduate Student Innovation and Entrepreneur Contest, Sichuan Final | 2015 |