

Yuhang Zhou

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RESEARCH INTERESTS

Computational Social Science, Causal Inference, Natural Language Processing

EDUCATION

University of Maryland, College Park, the U.S.

▪ *Ph.D. in Information Studies*

- Coursework: Natural Language Understanding, Computational Linguistics

GPA: 3.98/4.0

University of Michigan, Ann Arbor, the U.S.

▪ *Bachelor of Science in Data Science*

- Coursework: Deep Learning for Vision, Data Mining, Database Management System

May 2020

GPA: 3.90/4.0

Shanghai Jiao Tong University, Shanghai, China

▪ *Bachelor of Science in Electrical and Computer Engineering*

- Coursework: Data Mining and Machine Learning, Honors Mathematics, Discrete Mathematics

Aug 2020

GPA: 3.56/4.0

RESEARCH

University of Maryland, CLIP Lab

▪ *Causal Effect of Emojis in GitHub Issues, advised by Prof. Wei Ai*

- Extracted emoji information in GitHub issues to detect emoji's effect on developer participation on GitHub.
- Applied propensity score matching method to control the confounding variables, e.g. issues length and topics.

▪ *Emoji Hashtag Association Analysis, advised by Prof. Wei Ai*

- Extracted the emojis and hashtags information from the twitter data using Pyspark framework.
- Encoded the emoji feature and clustered the hashtags by applying the hierarchical clustering algorithm.
- Applied emoji representation model to promote hashtag predictions in Tweets.

University of Maryland

▪ *Individual Fairness Promotion in GNN, advised by Prof. Furong Huang*

- Designed representation learning model to promote individual fairness for multiple graph neural network models.
- Constructed a "individually fair" graph and trained the fairness representation learning model on it.

PUBLICATION

1. **Zhou, Yuhang** and Wei Ai. # emoji: A study on the association between emojis and hashtags on twitter. In *Proceedings of the International AAAI Conference on Web and Social Media*, volume 16, pages 1169–1180, 2022
2. Oana Ignat, Santiago Castro, **Zhou, Yuhang**, Jiajun Bao, Dandan Shan, and Rada Mihalcea. When did it happen? duration-informed temporal localization of narrated actions in vlogs. *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, 2022
3. Luke J. DeRoos, **Yuhang Zhou**, Wesley J. Marrero, Elliot B. Tapper, Christopher J. Sonnenday, Mariel S. Lavieri, David W. Hutton, and Neehar D. Parikh. Assessment of National Organ Donation Rates and Organ Procurement Organization Metrics. *JAMA Surgery*, 12 2020

INTERNSHIP

Alibaba Group, Hangzhou, China

▪ *Research Intern, Manager: Tianyu Li*

May 2021-Aug 2021

- Designed a SQL framework to mine the consumer profiles of e-commerce merchants in the transaction data.
- Applied Siamese BERT-Networks to retrieve items of Taobao, given particular style descriptions.

Amazon Alexa AI, New York, USA

▪ *Applied Scientist Intern, Manager: Beiye Liu*

May 2022-Aug 2022

- Designed a new semi-supervised learning without manual prompts to promote the text classification
- Reproduced the state-of-the-art few-shot prompt learning method as the experiment baseline results.

SKILLS

- Language: Proficient in Python, SQL, \LaTeX , C++, C, R, Java, JavaScript