

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 fairness 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.

PROJECTS

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

- *Twitter Semantic Analysis related to COVID-19, advised by Prof. Danai Koutra*

- Hydrated tweets related to COVID-19 from Twitter API.
- Applied emotion recognition for each tweet and analyzed sentiments in each twitter community.

PUBLICATION

1. Luke J. DeRoos, **Yuhang Zhou**, Wesley J. Marrero, Elliot B. Tapper, Christopher J. Sonnenday, Mariel S. Laverie, David W. Hutton, and Neehar D. Parikh. Assessment of National Organ Donation Rates and Organ Procurement Organization Metrics. *JAMA Surgery*, 12 2020
2. Oana Ignat, Santiago Castro, **Yuhang Zhou**, Jiajun Bao, Dandan Shan, and Rada Mihalcea. When did it happen? Duration-informed Temporal Localization of Narrated Actions in Vlogs. *Transactions on Multimedia Computing Communications and Applications*, 2021

WORKING PAPER

1. **Yuhang Zhou** and Wei Ai. #Emoji: A Study on the Association between Emojis and Hashtags on Twitter. [Submitted to ICWSM]

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.

SKILLS

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