

# 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.

**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\***, Suraj Maharjan\*, and Beiye Liu. Scalable prompt generation for semi-supervised learning with language models. In *Findings of EACL 2023*, 2023
2. **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*, 2022
3. 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
4. Luke J DeRoos, **Zhou, Yuhang**, 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*, 156(2):173–180, 2021

## INTERNSHIP

**Amazon Alexa AI**, New York, USA

- *Applied Scientist Intern, Manager: Beiye Liu*

May 2022-Aug 2022

- Designed a new prompt-tuning semi-supervised learning pipeline without manual prompts and verbalizers to promote the scalable text classification
- Reproduced the state-of-the-art few-shot prompt-tuning methods as the experiment baseline results.

**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,  $\text{\LaTeX}$ , C++, C, R, Java, JavaScript