

YUJIAN LIU

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RESEARCH INTERESTS

Generative models (focus on diffusion models), reasoning on natural language (*e.g.*, question answering)

EDUCATION

University of California, Santa Barbara, Santa Barbara, CA Sep 2022 - Now
Ph.D. student in Computer Science, advised by **Prof. Shiyu Chang**

University of Michigan, Ann Arbor, Ann Arbor, MI Sep 2018 - May 2022
M.S. in Computer Science, advised by **Prof. Lu Wang** and **Prof. Rada Mihalcea**
B.S. in Computer Science, Minor in Mathematics
GPA: 4.00/4.00

Shanghai Jiao Tong University, Shanghai, China Sep 2016 - Aug 2018
B.S. in Electrical and Computer Engineering
GPA: 3.75/4.00

WORK EXPERIENCE

Adobe Research, San Jose, CA Jun 2023 - Sep 2023
Research Intern
Primary mentor: Dr. Tong Yu

PUBLICATIONS

* co-first author

Conference Publications

- [1] **Yujian Liu**, Xinliang Frederick Zhang, Kaijian Zou, Ruihong Huang, Nicholas Beauchamp, and Lu Wang. “All Things Considered: Detecting Partisan Events from News Media with Cross-Article Comparison”. **EMNLP, 2023**.
- [2] Qiucheng*, **Yujian Liu***, Handong Zhao, Trung Bui, Zhe Lin, Yang Zhang, and Shiyu Chang. “Harnessing the Spatial-Temporal Attention of Diffusion Models for High-Fidelity Text-to-Image Synthesis”. **ICCV, 2023**. [paper] [code].
- [3] Qiucheng Wu, **Yujian Liu**, Handong Zhao, Ajinkya Kale, Trung Bui, Tong Yu, Zhe Lin, Yang Zhang, and Shiyu Chang. “Uncovering the Disentanglement Capability in Text-to-Image Diffusion Models”. **CVPR, 2023**. [paper] [code].
- [4] **Yujian Liu***, Laura Biester*, and Rada Mihalcea. “Improving Mental Health Classifier Generalization with Pre-Diagnosis Data”. **ICWSM, 2023**. [paper]
- [5] **Yujian Liu***, Xinliang Frederick Zhang*, David Wegsman, Nicholas Beauchamp, and Lu Wang. “POLITICS: Pretraining with Same-story Article Comparison for Ideology Prediction and Stance Detection”. **NAACL-Findings, 2022**. [paper] [code].

Preprints

- [1] Chung Hoon Hong, Yuan Liang, Sagnik Sinha Roy, Arushi Jain, Vihang Agarwal, Ryan Draves, Zhizhuo Zhou, William Chen, **Yujian Liu**, Martha Miracky, Lily Ge, Nikola Banovic, and David Jurgens. “Audrey: A Personalized Open-Domain Conversational Bot”. **arXiv, 2020**. [paper].

TEACHING EXPERIENCE

University of California, Santa Barbara, Teaching Assistant Fall 2023, Fall 2022
Introduction to Deep Learning (CMPSC 190I)
Machine Learning (CMPSC 165B)

University of Michigan, Ann Arbor, Graduate Student Instructor Winter 2022, Winter 2021
Introduction to Natural Language Processing (EECS 487)
Applied Machine Learning for Affective Computing (EECS 498)

SELECTED AWARDS

James B. Angell Scholar, University of Michigan: March 2020
University Honors, University of Michigan: Fall 2018 - Winter 2020
University of Michigan College of Engineering Dean's Honor List: Fall 2018 - Winter 2020
SJTU Undergraduate Scholarship: Dec 2017