TIANLE WANG

■ tiw054@ucsd.edu · **८** (+1) 858-531-8206 · **○** wtl666wtl · **%** Home Page

EDUCATION

University of California, San Diego (UCSD)

La Jolla, CA, USA

Master of Science in Data Science

Sept. 2023 - Mar. 2025 (Expected)

- · Advised by Prof. Jingbo Shang
- My research interests lie in natural language processing and broad machine learning
- GPA: 4.0/4.0

Shanghai Jiao Tong University (SJTU)

Shanghai, China

Bachelor of Engineering in Computer Science

Sept. 2019 – Jun. 2023

- Member of ACM Honors Class, which is an elite program for top 5% talented students
- GPA: 3.7/4.3

PUBLICATION

- 1. **Tianle Wang**, Zihan Wang, Weitang Liu and Jingbo Shang "WOT-Class: Weakly Supervised Open-world Text Classification", *CIKM* 2023
- 2. Zihan Wang*, **Tianle Wang***, Dheeraj Mekala and Jingbo Shang "A Benchmark on Extremely Weakly Supervised Text Classification: Reconcile Seed Matching and Prompting Approaches", *ACL* 2023, *Findings*
- 3. Tianxing He, Jingyu Zhang, **Tianle Wang**, Sachin Kumar, Kyunghyun Cho, James Glass and Yulia Tsvetkov "On the Blind Spots of Model-Based Evaluation Metrics for Text Generation", *ACL* 2023
- 4. Mengke Zhang, Tianxing He, **Tianle Wang**, Lu Mi, Fatemehsadat Mireshghallah, Binyi Chen, Hao Wang, Yulia Tsvetkov "LatticeGen: A Cooperative Framework Which Hides Generated Text in A Lattice For Privacy-Aware Generation on Cloud", *NAACL 2024, Findings*
- 5. Yiyang Zhou*, Zhaoyang Wang*, **Tianle Wang***, Shangyu Xing, Peng Xia, Bo Li, Kaiyuan Zheng, Zijian Zhang, Zhaorun Chen, Wenhao Zheng, Xuchao Zhang, Chetan Bansal, Weitong Zhang, Ying Wei, Mohit Bansal, Huaxiu Yao, "AnyPrefer: An Automatic Framework for Preference Data Synthesis", *ICLR* 2025

RESEARCH EXPERIENCE

University of North Carolina at Chapel Hill

Chapel Hill, NC, USA

Research Intern, advised by Prof. Huaxiu Yao

Jun. 2024 - Dec. 2024

- Self-evolving framework for preference data generation
 - Introduced a novel framework Anyprefer, which synthesizes high-quality preference data for foundation models, improving alignment with human values across diverse modalities
 - Developed a cooperative Markov Game-based feedback mechanism to refine preference data generation, enhancing the accuracy of rewards sampled by the target model.
 - Accepted by ICLR 2025 as co-first author

SLS Lab, Massachusetts Institute of Technology

Cambridge, MA, USA

Research Intern, advised by Prof. James Glass and Dr. Tianxing He

Jul. 2022 - Jan. 2023

- Blindspots in PLM-based NLG Metrics
 - Revealed the lack of robustness in PLM-based NLG metrics (e.g., BERTScore) and created an evaluation system with synthetic data for comprehensive checks
 - Identified biases and flaws in various metrics, proposing solutions to mitigate undesirable behaviors
 - Accepted by ACL 2023

SDLab, University of California, San Diego

La Jolla, CA, USA

Research Intern, advised by Prof. Jingbo Shang

Aug. 2021 - Dec. 2024

- · Weakly Supervised Open-world Text Classification
 - Pioneered weakly supervised open-world text classification, revealing limitations of existing methods
 - Proposed WOT-Class, which jointly improves class identification and document classification, achieving a 23.33% macro-F1 improvement across datasets
 - Accepted by CIKM 2023 as first author
- Benchmark for Extremely Weakly Supervised Text Classification
 - Developed a benchmark to compare extremely weakly supervised text classification methods, particularly between representation learning and prompt-based approaches
 - Analyzed factors influencing performance, such as dataset type, prompt design, class names, and PLM
 - Accepted by ACL 2023 as co-first author

SELECTED HONORS AND AWARDS

Irving T. Ho Memorial Scholarship One of the 4 winners in SJTU 2022 Zhiyuan Honorary Scholarship Top 5% in SJTU 2019 - 2022 Silver Medal Top 150 in The 34th China's National Olympiad in Informatics (NOI)

2017

TEACHING EXPERIENCE

Reader	Fall 2024
Advanced Data-Driven Text Mining (CSE 291 & DSC 253), UCSD	
Teaching Assistant	Spring 2021
Data Structures (CS 152), SJTU	
Teaching Assistant	Fall 2020
Great Ideas in Computer Science (CS 163), SJTU	

SELECTED PROJECTS

O x-TC Fall 2022

Benchmark, Text Classification

- An implementation of our *ACL* paper
- · Built a benchmark for comparing different extremely weakly supervised text classification methods
- User-friendly to edit the framework and incorporate novel methods and datasets

O WOT-Class Spring 2022

Text Classification, Open-world Learning

- An implementation of our CIKM paper
- Designed an iterative refinement framework that achieved state-of-the-art performance in weakly supervised open-world text classification settings