CHENG GUO

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EDUCATION

University of California, San Diego, Jacobs School of Engineering, La Jolla, CA   **Expected June 2025**
Master of Science
Major: Computer Science
GPA: 3.84

University of Washington, College of Engineering, Seattle, WA   **June 2023**
Bachelor of Science
Major: Human-Centered Design & Engineering (Data Science Option)
Minor: Drama (Acting)
GPA: 3.82 (Dean's list - All Quarters)

Relevant Courses: Machine Learning; Natural Language Processing; Deep Learning; Introductory Computer Programming (Python, Java, C/C++, R); Data Structures and Algorithms; Algorithms and Computational Complexity; Design and Analysis of Algorithms; Computability and Complexity; Web Mining; Recommender Systems; Database Systems; Advanced Multivariate Calculus; Differential Equation; Matrix Algebra; Real Analysis; Probability; Elements of Statistical Methods; Statistical Methods in Engineering and Science; Interactive System Design; User-Centered Design; User Research

PUBLICATION

- **Cheng Guo**, Yanfu Liu, Yue Yuan, Wuhao Zhang, Sourojit Ghosh. Text Characteristics Vector: Rethinking Human-Centered Sentiment Analysis with Emotion-Related Text Characteristics. In *The 26th International Conference on Human-Computer Interaction (HCII)*, 2024

- Sourojit Ghosh, Murtaza Ali, Anna Batra, **Cheng Guo**, Mohit Jain, Joseph Kang, Julia Kharchenko, Varun Suravajhela, Vincent Zhou, Cecilia Aragon. "Do we like this, or do we like like this?" : Reflections on a Human-Centered Machine Learning Approach to Sentiment Analysis. In *The 25th International Conference on Human-Computer Interaction (HCII)*, 2023

- Yunhe Feng, **Cheng Guo**, Bingbing Wen, Peng Sun, Yufei Yue, and Dingwen Tao. EmojiCloud: a Tool for Emoji Cloud Visualization. In *The 5th International Workshop on Emoji Understanding and Applications in Social Media at 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (EMOJI@NAACL)*, 2022

RESEARCH EXPERIENCE

LLM Interpretation and Causal Inference Benchmark Project, University of California, San Diego, CA, *Student Researcher*   **Apr. 2024 – Present**
- Self-initialize research on creating a benchmark for LLM Interpretation and causal inference using text as a mediator with help from Dr. Amir Feder at Columbia University
- Generate counterfactual senator tweets and speech texts as if they come from a senator from another identity with ChatGPT and analyze their political ideology, benchmarking on interpretability methods

Human-Centered Natural Language Processing Directed Research Group, University of Washington, Seattle, WA, *Research Assistant*   **Jan. 2022 – July 2023**
- Collaborate with a team of 9 peers working on the Emotion Classifier Project under Prof. Cecilia Aragon
- Program in Python with the UW Hyak supercomputer to classify emotions with a 672 GB text dataset
- Lead a team of 5 peers researching how text characteristics (like capitalizations, exclamation marks) are related to sentiments
- Work within the Data Visualization team to use Tableau and Seaborn to visualize inter-rater reliability in the Emotion Classifier Project.

InfoSeeking Lab, University of Washington, Seattle, WA, *Research Assistant*   **Apr. 2021 – May 2022**
- Collaborate with a team of 10 peers in a Summer Incubation Project developing an intelligent agent for cellphones under Prof. Chirag Shah
- Develop EmojiCloud, a tool for emoji cloud visualization with Dr. Yunhe Feng
- Analyze data and created visualizations on Twitter privacy project and biases in image search project

SKILLS

Programming: Python, Java, C/C++, R, SQL, LaTeX, MATLAB
Software: PyTorch, TensorFlow, Microsoft Azure AI Platform, Amazon Mechanical Turk, SLURM Workload Manager
Language: English (Fluent), Chinese (Native), German (Elementary)

VOLUNTEERING EXPERIENCE

Volunteer at the 2024 International Conference on Human-Computer Interaction (HCII), Washington DC   **Jul. 2024**
Volunteer at the 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), Seattle, WA   **Jul. 2022**