

# 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 Interpretability and Causal Inference Benchmark Dataset Project**, University of California, San Diego, CA, *Student Researcher* **Apr. 2024 – Present**

- Self-initiated research project on creating a text benchmark dataset for LLM interpretability and causal inference with the help of 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**