

# CHENG GUO

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## EDUCATION

**Case Western Reserve University**, Case School of Engineering, Cleveland, OH

**Expected June 2030**

*Doctor of Philosophy*

*Major:* Computer Science

**University of California, San Diego**, Jacobs School of Engineering, La Jolla, CA

**Sept. 2023 - June 2025**

*Master of Science*

*Major:* Computer Science

GPA: 3.87

**University of Washington**, College of Engineering, Seattle, WA

**Sept. 2019 - June 2023**

*Bachelor of Science*

*Major:* Human-Centered Design & Engineering (Data Science Option)

GPA: 3.82 (Dean's list - All Quarters)

## PUBLICATION

- Yanfu Liu, **Cheng Guo**, Sourojit Ghosh. (2025). Post-Editing vs Neural Machine Translation: A Comparative Study of English ↔ Mandarin Translations in Daily Conversations. In The 27th International Conference on Human-Computer Interaction (HCII), 2025. [Accepted].
- Cheng Guo**, Yanfu Liu, Yue Yuan, Wuhao Zhang, Sourojit Ghosh. (2024). 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, and Cecilia Aragon. (2023). "Do we like this, or do we like like this?" : Reflections on a Human-Centered Machine Learning Approach to Sentiment Analysis. In International Conference on Human-Computer Interaction, pp. 63-82. Cham: Springer Nature Switzerland, 2023.
- Yunhe Feng, **Cheng Guo**, Bingbing Wen, Peng Sun, Yufei Yue, and Dingwen Tao. (2022). EmojiCloud: a Tool for Emoji Cloud Visualization. In Proceedings of 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), pp. 69-74. 2022.

## RESEARCH EXPERIENCE

**LLM Interpretability and Causal Inference Benchmark Dataset Project**, University of California, San Diego, CA, *Student Researcher*

**Apr. 2024 – Present**

- Initiate research project with the help of Dr. Amir Feder at Columbia University
- Develop prompting strategy for ChatGPT on generate counterfactuals based on a causal graph
- Generate counterfactual senator tweets and speech as if they come from a senator of another identity with ChatGPT and analyze their political ideology

**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 sentiment classification with text characteristics (like capitalizations or exclamation marks) with qualitative coding, program in Python, and write paper published in HCII 2024
- Work in a team of 3 peers researching post-editing and neural machine translation between English and Mandarin in daily conversations with qualitative coding translated scripts and user interview

**InfoSeeking Lab**, University of Washington, Seattle, WA, *Research Assistant*

**Apr. 2021 – May 2022**

- Develop EmojiCloud, a tool for emoji cloud visualization with Dr. Yunhe Feng
- Collaborate with a team of 10 peers on developing an intelligent agent for cellphones under Prof. Chirag Shah by research stakeholders, develop personas, scenarios, and project boards, coordinate with other members to formulate agenda based on key initiatives.

## SKILLS

**Programming:** Python, Java, C/C++, R, Javascript, HTML/CSS, 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**