

# CHENG GUO

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## EDUCATION

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

Expected June 2025

Master of Science

Major: Computer Science

**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

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- **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 [Accepted]
- 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

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**Human-Centered Natural Language Processing Directed Research Group**, University of Washington, Seattle, WA, Research Assistant      Jan. 2022 – Present

- 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 7 peers researching how human express various emotions differently in the text dataset
- Design, program, and develop a Python package for a tool of text visualization based on the word cloud

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

Apr. 2021 – May 2022

- Collaborated with a team of 10 peers in a Summer Incubation Project developing an intelligent agent for cellphones under Prof. Chirag Shah
- Developed EmojiCloud, a tool for emoji cloud visualization with Dr. Yunhe Feng
- Analyzed data and created visualizations on Twitter privacy project and biases in image search project

## SKILLS

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**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)

## ADDITIONAL EXPERIENCE

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**Volunteer at the 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)**

Jul. 2022

**LinkedIn User Interface Redesign**, University of Washington, Seattle, WA

Apr. 2022 – Jun. 2022

- Collaborated with 5 peers from HCDE 301 class
- Conducted user study with job application experience on LinkedIn
- Redesigned the job search page to improve job-posting transparency
- Designed mock-up interview, volunteer mentor, and common questions interfaces