RUOJIA SUN

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With over 5 years of research experience in human-computer interaction, I bring expertise with data analysis, quantitative and qualitative research methods, and communicating findings. As a contributor to several award-winning research projects, I am self-driven, resourceful, and detail-oriented, applying my technical and problem-solving skills to deliver high-quality outcomes and adapting fluently to various roles and responsibilities. May 2024 graduate with Masters' in Creative Technology and Mechanical Engineering seeking full-time data analyst and research positions.

EDUCATION

University of Colorado Boulder *(Boulder, CO)* **Aug 2021 - May 2024**

M.S. Creative Technology & Design, *focus: human-computer interaction research* *GPA: 4.0*

Cornell University *(Ithaca, NY)* **Aug 2020 - May 2021**

M.Eng. Mechanical Engineering *GPA: 4.0*

Cornell University *(Ithaca, NY)* **Aug 2016 - May 2020**

B.S. Mechanical Engineering *GPA: 3.61*

Coursework: Research Methods, Statistical Methods, Data Storytelling, Machine Learning, Data Structures

SKILLS

- Programming experience in Python (6 years), Matlab (3 years); R, SQL, and Java (2 years each)
- 4+ years data cleaning, analysis, modeling and visualization with Python, R, Excel, Power BI, and SQL
- 4+ years planning, conducting, and analyzing quantitative and qualitative user research studies
- Defining research questions and formulating strategic research plans to meet objectives
- Developing usability studies, surveys, and interviews to uncover user experience, behavior, and preferences
- Ability to collaborate with interdisciplinary teams and manage multiple responsibilities and priorities
- Proficiency at communicating research findings in written and presentation formats
- Fluency in English and Chinese

EXPERIENCE

Graduate Research Assistant, ***University of Colorado Boulder*** *(Boulder, CO)* **Aug 2021 - Dec 2023**

- Funded technology research, including $30,000 awarded from the ATLAS Institute Seed Grant
- Developed, conducted, and analyzed user research studies on novel technologies for dance and music; performed statistical hypothesis testing and extracted insights from interview and survey data
- Processed, analyzed, and visualized body movement and EEG brain imaging data, including data cleaning and transformation, computing key metrics, and event detection in Python

Research Assistant, *Hybrid Body Lab (Ithaca, NY)* **June 2019 - Nov 2020**

- Led development of electronic textile materials for body-conforming wearable devices
- Planned and conducted wearable device usability studies to understand user experiences and preferences; collected, analyzed, and reported usability, interview, and survey data from studies
- Awarded Best Paper (top 1%) and Honorable Mention (top 5%) at Designing Interactive Systems 2020 & 2021

SELECTED PROJECT

Social Disparity in Impacts of Climate Disasters in the United States: A Data-Driven Study (2023)

- Analyzed, modeled (i.e clustering, linear regression), and visualized county-level climate risk data and hurricane impacts survey data using Python and R to identify trends in how climate disasters impact different demographic groups in the U.S.