

JULIA HUSAR

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EDUCATION

University of North Carolina Charlotte Charlotte, NC
BA, Computer Science (concentration in Human Computer Interaction) Expected May 2025

RESEARCH INTERESTS

Social Computing, Data Visualization, Human-Centered Design, Queer HCI, Human-Computer Interaction, Ubiquitous Computing, Accessibility

RESEARCH EXPERIENCE

Research Assistant to Dr. Kyoung-Hee Kim May 2024 - Current

- Constructed dashboard to display real-time air quality data from various IoT sensors
- Derived meaningful methods for users to interpret data regarding indoor air quality, through the use of graphing
- Prototyped various designs and conducted usability tests with target demographic
- Researched and implemented usage of LLMs in the context of microalgae systems

PROJECTS

The Transgender Mapping Project August 2024 - Present

- Established an organization at UNC Charlotte dedicated to exploring the intersection of technology and transgender healthcare availability
- Delegated roles to group members based on skill sets, coordinating efforts in data collection, analysis, and outreach
- Planned and led workshops on digital mapping and data visualization techniques to highlight healthcare resources and gaps for transgender communities

Western North Carolina Recovery October - November 2024

- Designed a web application centered on providing information regarding recovery efforts as a result of Hurricane Helene's devastation to Western N.C.
- Collaborated with local residents in understanding their needs as a community in obtaining support from the rest of the state through the use of technology

SKILLS

- User Research Methods: Usability testing, A/B testing, interviews, surveys, participatory design

- Data Visualization: Chart.js, Apache ECharts, Plotly
- Programming Languages: JavaScript, SQL, HTML/CSS, Java, Swift
- Interactive System Design: Usable prototypes built in Figma, Balsamiq, and paper
- Project Management: Agile frameworks, Scrum, Kanban

REFERENCES

Todd Dobbs, Ph.D

Teaching Assistant Professor of Software and Information Systems

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