

Niloofer Mansoor



Human Factors/User Experience Researcher

Profile Summary

I am an experienced mixed methods User Experience and Software Engineering researcher with a solid background in human factors. Over five years, I've conducted research involving 1500+ users, resulting in 9+ publications in top software engineering conferences. I excel as a team player, mentor, and communicator, evident through my 3+ conference presentations, teaching of 120+ students in introductory classes, and guest lecturing in higher-level courses. I am authorized to work for any employer in the United States without any need for sponsorship.

Professional Skills

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|---|--------------------------|------------------------|----------------------|
| • Qualitative and Quantitative Research | • Survey Design | • Data Analysis | • SQL |
| • Experimental Design | • User Interviews | • Statistical Analysis | • Python |
| • Human Subjects Testing | • In-Person User Studies | • Hypothesis Testing | • Pandas and Numpy |
| • Participant Recruitment | • Usability Studies | • Log Analysis | • Data Visualization |
| • Eye Tracking | • Study Moderation | • A/B Testing | • Mechanical Turk |
| | • Content Analysis | • SPSS | • Qualtrics |

Work Experience

University of Nebraska-Lincoln

Human Factors Researcher (Postdoctoral Associate) – January 2023 - Current

- Collaborated with faculty members from diverse departments to design a large-scale survey on public attitudes toward technology and collected data from 1200 participants.
- Performed data analysis using SPSS on prior survey data to find patterns and answers about technology attitude and trust questions.
- Orchestrated user experience project for university researchers, pinpointing pain points and devising improvement strategies via 1:1 interviews and focus groups.

Human Factors Researcher (Graduate Research Assistant) – August 2019 – December 2022

- Developer experience researcher with experience in **conducting multiple studies** resulting in discovering the best programming tool features and properties for the users.
- **Project management** and organizational skills as demonstrated by leading three different studies with **300+ participants**.
- Spearheaded a large-scale online **survey** study with **250 participants** using Qualtrics and an online remote study with **30 participants**, resulting in the discovery of developer tool and language usage patterns and preferences.
- Led an **eye-tracking study** with 27 participants, resulting in discovering comprehension patterns and the best tool and language features for software defect detection using both the eye-tracking and **1:1 interview** data.
- Efficient data analyst with expertise in **Python and Statistical Analysis** with in-depth knowledge of eye-tracking data and its intricacies. Experienced in statistical analysis methods such as regressions, ANOVA, and T-Tests.
- Performed **qualitative content analysis** of participants' screen recordings to categorize search queries during code comprehension tasks to understand website usage patterns.
- Strong communication and presentation skills, as evidenced by 3+ international conference **presentations** and **teaching** multiple university classes at different levels.
- Partnered and **collaborated** with 4 international scholars from 4 different academic departments across multiple universities, resulting in 9+ scientific **publications** in top conferences.
- Commitment to education and **mentorship** with experience in teaching 3+ intro classes at the university and guest lecturing 3 higher level undergraduate classes, resulting in improved writing and programming skills in computer science students.
- Dedication to the community demonstrated by **volunteering** to teach about technology and coding to children and teens in 5+ events in Lincoln, Nebraska.

Software Engineering Researcher – August 2017 – August 2019

- Software verification researcher with experience in reliability research of cyber physical systems resulting in finding defects in a surgical robot system.
- Published research findings as a scientific paper.

Education

PhD in Computer Science - August 2017 - December 2022

University of Nebraska-Lincoln

MSc in Computer Science (Master's Along-the-Way of PhD) - August 2017 - May 2020

University of Nebraska-Lincoln