

IMAN MAKNOJIA

Human Factors Researcher

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SUMMARY

Results-driven Human Factors Engineer with expertise in HCI, user-centered design, and mixed-method research. Experienced in usability testing, field research, and behavioral analytics at Apple and in academic settings. Skilled in translating complex data into actionable, evidence-based design decisions.

EDUCATION

Master of Science – Human Systems Engineering

May 2024

Arizona State University, AZ, USA

3.8/4.0 GPA

Courses: Experimental Methods, Human Systems Research, Intermediate Statistics, Advanced UX Design, Product Design and Evaluation, Health & Human Systems Engineering, Web Markup and Scripting.

TECHNICAL SKILLS

Human Factors skills: User Research, Data Analysis, Statistical Analysis, Qualitative Research, Quantitative Research, Testing, Survey Sampling, Survey Analysis, Human-Centered Design, Ergonomics, Psychophysics, Cognitive Science HCI, Experimental Psychology, Behavioral Analytics, Agile Methods, Communication.

Programming Languages: HTML, CSS, Python, C, R, JavaScript, Java, TypeScript, Swift.

Technologies: Figma, Adobe creative cloud, IBM SPSS, Webflow, React, D3.js, P5.js, Sketch, MATLAB

PROFESSIONAL AND RESEARCH EXPERIENCE

Human factors engineer, Apple, California, USA

Sept 2024 - Ongoing

- Designed and executed large-scale usability tests and field studies for next-gen audio hardware, analyzing data from 800+ participants and driving a 20% increase in usability KPIs.
- Developed a custom internal research tool (website) used by both researchers and user study participants; automated manual processes, reduced human error by 90%, and improved data quality and study throughput, supporting over 800 users.
- Conducted comprehensive survey analysis using R, SPSS, applying ANOVA, regression, t-tests, and statistical modeling to guide design and business decisions. Effectively managed research plans in dynamic environments, adapted methodologies to scope changes, and aligned deliverables with shifting priorities.
- Collaborated with design, product, engineering, and marketing to communicate research results and drive product strategy.

Graduate Research Assistant (GSA), Arizona State University, Arizona, USA

May 2023 – May 2025

- Contributed to a systematic review of 1,480 citing papers examining the use and modification of the Jian Trust in Automated Systems Scale across human-AI interaction, automation, and human factors research. DOI: 10.1177/10711813251357911
- Supported internal reliability analysis across 620 verified studies by coding scale modifications, evaluating Cronbach's alpha reporting trends, and identifying measurement validity risks in trust-in-automation research.

Defense Research and Development Organization (DRDO), Software Quality intern, India

Jan 2022 - April 2022

- Utilized empirical testing methods and software testing strategies aligned with computer engineering practices.
- Executed static testing using LDRA and Polyspace, contributing to software ergonomics in critical systems.

Web Development Intern, ProHance, USA (Remote)

Aug 2021 - Nov 2021

- Developed responsive website for a client using JavaScript, React, and AngularJS, ensuring accessibility and user engagement metrics.

PROJECTS

Digital Note-Taking Affordances Effect on Cognitive Workload

ASU | 2023

- Led research challenging prevailing assumptions, demonstrating a commitment to innovation and empowerment in educational technology.
- Strengthened teamwork skills through collaborative efforts in experimental design and user testing.

Arizona Water Chatbot

ASU | 2023

- Created a user-centric chatbot tailored to the needs of Arizonans, serving as a comprehensive resource for water-related inquiries. Meticulously researched and designed a user-friendly model and interface, ensuring seamless access to vital information along with accessibility and functionality.

CERTIFICATIONS AND EXTRACURRICULAR EXPERIENCE

- Oracle- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- IBM- Enterprise Design Thinking
- Google- User Experience Design
- IRB – Social & Behavioral Research
- RCR – Social and Behavioral Responsible Conduct of Research