DEELIA WANG

Tufts University
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EDUCATION

Tufts University
B.S Engineering Psychology + B.F.A Studio Art | 2022-May 2025
G.P.A 3.95

Rhode Island School of Design
Industrial Design + Minors in Sustainability + Computation | 2020-2022

WORK EXPERIENCE

Johnson & Johnson MedTech   June 2024-Aug 2024 | Cincinnati, OH
Human Factors Engineering Co-op
- Managed 1 formative study from start to finish: wrote protocol and discussion guide, moderated with 15 nurses, and drafted a usability evaluation report
- Collected data for 3 additional formative studies and 1 summative study
- Analyzed quantitative and qualitative data and performed root-cause analysis
- Presented usability findings to a team of design, quality, HF engineers, and industrial designers
- Collaborated with quality, medical affairs, and industrial design teams on FMEA documentation to identify hazards, severity of harm, and design mitigations
- Contributed to IEC 60601 assessments and use specification documentation
- Designed internal biodesign assets based on Stanford's biodesign innovation process

Draper Laboratory   Jan 2024-May 2024 | Cambridge, MA
UX & Performance Co-op
- Researched & designed MK2 lunar lander's piloting screens as a part of Blue Origin's national team for the NASA Artemis Moon exploration program
- Created UX designs in Sketch and tested for workload and handling qualities with test pilots via a flight simulator
- Moderated usability tests/pilot evaluations, conducted debriefing interviews, and collected qualitative and quantitative data
- Drafted and submitted a handling qualities report synthesizing data
- Led a discussion on future designs with internal experts and Blue Origin's test pilot team
- Wrote design requirements based on NASA & Blue Origin's human factor standards

Tufts Digital Health Research Group   Jan 2023-May 2024 | Boston, MA
Research Assistant
- Conducted inductive coding and thematic analysis for an interview study about medication adherence with 22 participants. Published in a peer-reviewed journal
- Published and presented 8 additional conference abstracts on digital health
- Planned and hosted a medication adherence co-design workshop with older adults

BelleTorus Corporation   Feb 2022-May 2022 | Cambridge, MA
UX Intern
- Designed prototypes in Figma for an AI-powered tool that detects skin conditions to automatically recommend products on La Roche Posay's website. Finished prototype was successfully presented in a pitch and a version was incorporated to the website

NASA SUITS Challenge   Dec 2020-May 2022 | Providence, RI
UX Researcher & Designer
- Designed UI/UX for an AR headset for astronaut lunar navigation that was 1 of 8 finalists in the NASA SUITS challenge. Final design was user tested at the Johnson Space Center
- Conducted interviews and created user journey maps with NASA astronauts/ scientists
- Prototyped wireframes using Figma for Hololens and conducted usability testing
- Published an extended abstract on our AR design at MIT Space Computer-Human Interaction conference (MIT-SpaceCHI)

LEADERSHIP EXPERIENCE

Tufts IDEA Human Factors Lab   Sept 2023-Present | Medford, MA
Co-Director, Project Lead
- Oversee 6 research projects spanning from medical device design to VR design
- Led a team of 10 undergraduate and graduate research assistants to redesign dentistry tools to be more ergonomic for women, reducing risk of occupational injury
- Synthesized user interviews with female dentists and conducted task analysis

Tufts Human Factors & Ergonomics Society   Sept 2022-Jan 2024 | Medford, MA
Executive Member
- Organized alumni portfolio reviews, student-faculty meet & greets, and conferences to support students and build community in Human Factor department

SKILLS

Human Factors Engineering:
Formative & Summative Usability Testing, Moderation, FMEA, Root-cause Analysis, Task Analysis, Workflow Diagrams, Cognitive Workload

Design:
UI/UX, User Journey Mapping, User Personas, Information Architecture, Wireframing, CAD, 3D Printing, Laser Cutting

Software:
Figma, Sketch, R, Photoshop, Illustrator, inDesign, Lightroom, Premiere, Solidworks, Fusion360, Rhino, Keyshot, Blender, Unity

AWARDS

NASA SUITS Finalist (2022)

President's Volunteer Service Award Gold Medal (2018)
Designed and taught STEAM curriculum in Myanmar. Lessons recorded for VR and 360 video to reach a larger audience