

ADANG [ay-duh eng]

user experience **researcher + designer**

HCI Researcher exploring applications of sensor and wearable data in health and AR/VR

ADANG@U.NORTHWESTERN.EDU

+1.646.708.0888

ADA-NG.COM

education

- + NORTHWESTERN UNIVERSITY
M.S./Ph.D. Technology and Social Behavior (HCI)
- + CORNELL UNIVERSITY
B.S. Design and Environmental Analysis (Interior Design)

research methods

- + in-depth interviews + in-lab usability testing + contextual inquiry + behavioral observation + rapid iterative prototyping + diary studies + workshop/focus groups + surveys

tools

- + Illustrator + Photoshop + InDesign + Python + Pandas + numpy + matplotlib + SQL + R + Figma + InVision + Axure

honors

- + NSF GRFP Honorable Mention 2018 (Top 29%)
- + American Medical Informatics Association Student Design Competition 2nd place 2017
- + Segal Design Cluster Fellowship 2017

teaching assistantship

Courses

- + How Interaction Works
- + Designing Health User Experiences
- + Human-Computer Interaction

community/leadership

- + host professional development and community building events
- + peer review research papers for publication
- + present at conferences
- + university brand design
- + mentor graduate students and prospective PhDs on academia and industry careers

relevant experience

META REALITY LABS – Lead User Experience Researcher 2021-current

- + Lead health and wellness research within an augmented reality (AR) wearable product
- + Support product teams in roadmapping, vision, strategy, product definition, prioritization, design iteration, and benchmarking
- + Evaluate user experience of AR wearable product pillar through mixed-methods research
- + Partner with cross-functional teams to align and drive solution generation and implementation

NORTHWESTERN UNIVERSITY – Doctoral Researcher 2016-2021

- + Explored the value of context in health data visualizations for postpartum self-reflection. Inductive coding to identify data visualization design features. Simulated health data using Python, NumPy, and pandas to create prototypes to evaluate usefulness of design concepts.
- + Designed a human-centered mental health self-tracking mobile app through exploratory interviews, identifying design opportunities, prototyping, and evaluating app acceptability
- + Identified current and envisioned uses for wearable sensor data in treatment for post traumatic stress disorder (PTSD) by collaborating with a mental health clinic to conduct interviews with veterans, their care providers, and organization leadership
- + Investigated effects of various visual and haptic expressions of heart rate in virtual reality (VR) on perceived sensations of heart rate. Programmed conditions in Unity and C#
- + Wrote and submitted IRB protocols and supplementary materials both independently and across institutions and departments in collaborative projects

FACEBOOK – VR Experiences UX Research Intern Summer 2018, 2019

- + Planned and conducted generative and evaluative research on prototypes for Oculus user profiles, Facebook Horizon, and current/potential users of social virtual reality applications
- + Synthesized findings into design recommendations for cross-functional stakeholders

UPTAKE TECHNOLOGIES – User Experience Researcher 2016-2017

- + Owned research for a portfolio of industries integrating machine-learning-backed systems and services into their systems for the first time
- + Developed personas, workflows, journey maps, and ecosystem diagrams as a means of sharing research findings with cross-functional teams

GFK CUSTOM RESEARCH – User Experience Research and Design Lead Specialist 2013-2016

- + Evaluated product safety through domestic and international formative and validation human factors studies assessing: comprehension of instructional graphics and content, attitudes towards commercial web and mobile applications, and behavioral impact of UI for 510(k)s

select publications

- + Ng, A., Walker, A. M., Wakschlag, L., Alshurafa, N., & Reddy, M. (2022). Understanding Self-Tracked Data from Bounded Situational Contexts. In Designing Interactive Systems Conference. doi.org/10.1145/3532106.3533498
- + Ng, A., Kornfield, R., Schueller, S. M., Zalta, A. K., Brennan, M., & Reddy, M. (2019). Perspectives on Integrating Sensor-Captured Patient-Generated Data in Mental Health Care. Proceedings of the ACM on Human-Computer Interaction, CSCW. doi.org/10.1145/3359217