SUMMARY

Motivated UX researcher with 10+ years of UX & HCI experience. Passionate about applying mixed methods research and service design principles to measure and improve end-to-end user experiences. Proven experience utilizing metrics and analytics to support data-driven decision making. Expertise in HCI, UX strategy, and service design.

EXPERIENCE

EXIT ETITET	
Sr. User Experience Researcher Sandia National Laboratory Albuquerque, NM Jul. 2015 - Present	Designing and executing quantitative and qualitative research to improve user experience within complex sociotechnical systems. Demonstrating measurable ROI using metrics and analytics.
	Leading corporate initiatives to enhance the UX capability of the organization. Guiding high-level strategy and direction. Creating standards, templates, tools, and processes. Designed and installed usability testing and design lab.
	Teaching UX training courses enabling 100+ staff to apply UX practices to their products and services. Mentoring students and junior researchers. Established Community of Practice to engage community in UX topics.
	Transformed how 80+ IT services are discovered and requested by partnering with dozens of organizations to conceptualize, prototype, and implement an IT service catalog emphasizing service design principles.
	Leading a team exploring UX feedback collection methods to establish strategy for UX benchmarking of products and services.
Graduate Research Assistant Virtual Reality Applications Center Iowa State University Ames, IA Jan. 2011 - May 2015	Explored human-computer interactions and user experience across a variety of immersive user interfaces.
	Leveraged virtual reality technologies to discover new design processes. Investigated synergy between normative and description design methodologies.
	Conducted on-site field studies of numerous industries to understand pervasiveness of virtual reality use and technologies.
Microsoft Design Research Internship Windows Research Redmond, WA May 2013 - Aug. 2013	Impacted design thinking of designers, researchers, and program managers surrounding core user experiences in Windows 8.
	Investigated how Windows 8.1 updates would be received by varying groups of end-users through the design and execution of research studies.
	Applied critical thinking and analytics to study results to support product development and future design directions.
HCI Research Internship Biomedical Informatics Research Center Marshfield, WI May 2012 - Aug. 2012	Strengthened designers' and product managers' understanding of how medical staff perceive and utilize electronic health record systems.
	Conducted usability studies, interviews, and focus groups with physicians to identify salient UX issues in an electronic health record prototype.
	Implemented a UX evaluation process incorporating cognitive modeling.

Leif Berg leif.berg@gmail.com

INTERESTS

Service Design Vehicle Detailing Human-Computer Interaction

Board & Video Games Behavioral Economics Logic Puzzles
Scandinavian History Virtual Reality Yoga & Running

RESEARCH

Enhanced Immersive Technology to Improve Collaborative DecisionFunded by the National Science Foundation, research explored new design methodologies combining analytical tools for design decision making and immersive sensory environments to support complex design.

Spring 2011 - Spring 2015.

Capstone Research
Project: Image
Compression
(Undergraduate)

Directed a team of students in the design and implementation of an image
compression algorithm in Python. Researched existing literature to establish goal
benchmarks. Final design compressed image data by exploiting polygon mesh
connectivity utilizing a special segmentation method. Fall 2009.

Sociotechnical
Analysis of Regents Hall,
St. Olaf College
(Undergraduate)

Conceptualized prospective human-computer interactions within the Regents Hall of Natural Science at St. Olaf College. Surveyed collaborative spaces to identify potential interaction issues. Observed and interviewed potential users to influence future space alterations. Presented findings and recommendations to the building's design team. Spring 2008.

PUBLICATIONS

Full list available at lpberg.github.io.

Making

Berg, L. P., & Vance, J. M. (2016). Industry use of virtual reality in product design and manufacturing: a survey. Virtual Reality, 1-17.

Berg, L. P., & Vance, J. M. (2016). An Industry Case Study: Investigating Early Design Decision Making in Virtual Reality. Journal of Computing and Information Science in Engineering.

Berg, L., Behdad, S., Vance, J., and Thurston, D. (2015). Disassembly Sequence Evaluation: A User Study Leveraging Immersive Computing Technologies. Journal of Computing and Information Science in Engineering. 15(1)

Behdad, S., Berg, L., Vance, J., and Thurston, D. (2014). Immersive Computing Technology to Investigate Tradeoffs under Uncertainty in Disassembly Sequence Planning. Journal of Mechanical Design. 136(7)

Berg, L., Mahnke, A., Moritz, R. (2013). Integration of Cognitive Modeling in the Evaluation of an Electronic Health Record. HFES 2013 Symposium on Human Factors and Ergonomics in Health Care. March 11-13, Baltimore, Maryland, USA.

SKILLS

Methods

Affinity Diagramming, Card Sort, Competitive Audit, Contextual Inquiry, Data Visualization, Descriptive Stats, Diary Study, Eye Tracking, Field Studies, Heuristic Analysis, Interviews, Journey Map, Personas, Prototyping, Service Design, Storyboards, Surveys, Task Analysis, Usability Testing, UX Metrics & ROI, Web Analytics

Technical R, RShiny, Python, Lua, HTML, JavaScript,

SQL