

Megan McCray

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Education

University of South Dakota - Vermillion, SD

Master of Arts, Psychology: Human Factors, Expected: Spring 2022

- Graduate Research and Creative Scholarship Grant 2020-2021: EMG Virtual Reality Limb Study
- Spring 2021 Coursework: Human Performance, Eye Tracking, Research Design & Statistics II
- Fall 2020 Coursework: Usability Testing, Human Engineering, Research Design & Statistics I

Marshall University - Huntington, WV

Bachelor of Arts, Psychology: Fall 2015 – Spring 2019

- Capstone Experience included first-hand volunteering with CONTACT Rape Crisis center and resulted in a whitepaper exploring the utilization of Sexual Assault Response Teams (SARTs) within communities.
- Valuable coursework: Medical Terminology, Human Anatomy, Human Physiology, Microbiology and Human Disease, Health Psychology

Professional Experience

Associate Human Factors Consultant

Suttons Creek | Woodland Hills, CA | June 2021 – Present

Junior Human Factors Consultant

Suttons Creek | Woodland Hills, CA | November 2020 – June 2021

- Support as a consultant on Gap Analyses, Formative and Summative Studies, Instructions for Use (IFU), Use Failure Mode and Effects Analysis (uFMEA), Usability Testing and Heuristic Evaluations
- HF guidance application and adherence:
 - FDA-2011-D-0469; IEC 62366-1; IEC 62366-2; ISO 14971:2019(E)

Graduate Assistant

University of South Dakota | Vermillion, SD | August 2020 – Present

- Graduate Assistant: Cognitive Psychology, Lifespan Human Development
- Research member of Dr. Timothy Ricker's Memory and Attention Laboratory
Conduct research involving working memory, workload, and multitasking

Financial Aid Counselor

University of Charleston | Charleston, WV | August 2019 – October 2020

- Boosted policy compliance and process uniformity by creating detailed procedure reference guides
- Worked with virtual platform programmers to implement student "self-service" abilities
- United co-workers to absorb director responsibilities, minimizing effects of employee turnover

Patient Care Assistant

Cabell-Huntington Hospital | Huntington, WV | September 2016 – July 2019

- Redesigned patient care processes and layout to promote efficiency and reduce physical/mental stress
- Proposed work redistribution plan to maximize Patient Care Assistants and properly utilize volunteers
- Trained 40+ staff members on reformed processes and procedures

Research Experience

Graduate Research Assistant

Department of Psychology, University of South Dakota Memory and Attention Lab, 2020 - Present

- Thesis work includes the study cognitive load and working memory through dual-task procedures. Application of a workload measure is expected to offer insight into why well-known effects are limited to specific stimuli.
- Assist in additional studies considering creativity, masking effects, and eye tracking applications to cognitive load tasks.

Conference Posters & Presentations

Niamba, Kouadio M., McCray, Megan M., Steinley, Alex R., Schieber (2021). *GreenLight Bionics: Product development for treatment of amputees and impaired motor capability patients*. South Dakota Chamber of Commerce & Industry, Governor's Giant Vision Student Competition. Sioux Falls, SD, April.

McCray, Megan M. (2021). *Myoelectric Control: a virtual reality application to the solution of Phantom Limb Pain (PLP)*. University of South Dakota, Department of Psychology, Human Factors Research Colloquium. Vermillion, SD, April.

Niamba, Kouadio M., McCray, Megan M., Steinley, Alex R., Schieber, Ph.D., Frank (2021). *Myoelectric Control: a virtual reality application to the solution of Phantom Limb Pain (PLP)*. University of South Dakota IdeaFest. Vermillion, SD, April.

Hoffman, Haley R., Marron, Miranda J., McCray, Megan M., Niamba, Kouadio M., Peterson, Ph.D. Douglas (2021). *Development of Thumb Typing Keyboard* University of South Dakota IdeaFest. Vermillion, SD, April.

Grants & Awards

The Governor's Giant Vision Student Competition 5th place award (\$1,000), South Dakota Chamber of Commerce & Industry, 2021.

Graduate Research and Creative Scholarship Grant (\$750), The Graduate School, USD, 2020

Professional Memberships

Human Factors & Ergonomics Society (HFES) Student Member, *August 2020 – Present*

Psychonomic Society Student Member, *October 2020 – Present*

User Experience Professional Association (UXPA) International, *October 2020 – Present*

Center for Brain and Behavior Research Student Organization, *August 2020 – Present*

UTEST: A Community for Usability Professionals, *March 2021 – Present*

Computer and Software Skills

PsychoPy, Microsoft Office Suite, Axure, Adobe XD

Volunteer Activities

Massachusetts Trial Court UX Forms Project Volunteer

Bentley University

UX Trial Court Form Project | May 2021 – Present

UXPA Volunteer 2021

User Experience Professionals Associations International Student Volunteer

Center for Brain and Behavior Research (CBBRe)

Spooky Science Fair

Washington Pavillion | Sioux Falls, SD | October 13, 2020