

BIOGRAPHICAL SKETCH

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NAME: Riley, Shannon K.

eRA COMMONS USER NAME (credential, e.g., agency login): sriley610

POSITION TITLE: Research Associate, Envision Research Institute

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Wichita State University Wichita, KS	B.A.	05/96	English Language & Literature
Wichita State University Wichita, KS	B.A.	05/01	Psychology
Wichita State University Wichita, KS	M.A.	12/06	Experimental Psychology

A. Personal Statement

My background is in Human Factors Psychology, and as such I have been trained in experimental design, research methodology, subjective/qualitative and objective/quantitative research measures, statistical analysis methods, as well as the ethics of human subjects research. My areas of research interest include assistive technology and accessibility for the blind and visually impaired. As a Research Associate, my primary responsibility is to support and engage in research projects and collaborations that assess and improve the quality of rehabilitative care and advance evidence-based clinical practices for patients with visual impairments, both for patients and the increasing population of persons with visual impairment. As a Research Associate, I have been fortunate to be the Site Coordinator and trainer for an FDA Clinical Trial of the Brainport Vision Device, during which I was responsible for all data collection and documentation and so understand the importance of following a research study protocol rigorously. Understanding the functional limitations that are caused by AMD, as the leading cause of visual impairment in the elderly, is an essential step to developing empirically based clinical and rehabilitation approaches, and improving the functional vision and quality of life for patients with this disease. The Envision Research Institute (ERI) is uniquely qualified to participate in this project, under the leadership of Dr. Laura Walker, due to its proximity and partnership with the Envision Vision Rehabilitation Clinic (EVRC) and access to a concentration of visually impaired individuals.

B. Positions and Honors**Positions and Employment**

2003-2006	Graduate Teaching Assistant, Wichita State University, Wichita, KS
2007-2008	Research Intern, Envision, Inc., Wichita, KS
2008-2009	Research Assistant, Envision, Inc., Wichita, KS
2009-2010	Research and Analytics Coordinator, Envision, Inc., Wichita, KS
2010-2013	Research and Analytics Associate, Envision, Inc., Wichita, KS
2013-	Research Associate, Envision, Inc./Envision Research Institute, Wichita, KS

Professional Activities

- 2003-2008 Member, Usability Professionals Association
2003-2008 Member, Human Factors and Ergonomics Society
2010- Member, Low Vision Research Group
2010- Member, Association for Research in Vision and Ophthalmology
2011- Member, Association for Research in Vision and Ophthalmology – Low Vision Cross-Sectional Group
2012- 2014 Member, Neuro-Optometric Research Association

Invited Lectures

- “Password practices: What users know and what they actually do”. **Riley S.** Annual Psychology Department Research Roundup, Wichita State University, Wichita, KS; Spring 2006.
“A usability comparison of three card-sort programs”. Hinkle V & **Riley S.** Annual Psychology Department Research Roundup, Wichita State University, Wichita, KS; Spring 2007.
“Graceful Transformation: The concept, practice and implications for the accessibility of small handheld device use”. **Riley S.** Envision Conference, San Antonio, TX; September 2009.
“Visual Field Loss Due to Neurological Event; the Team Approach to Rehabilitation vs. the Prescription of Gottlieb Prisms”. Park W & **Riley S.** Envision Conference, St. Louis, MO; September 2011.
“The Development of the Falling Less in Kansas (Falling LinkS) Toolkit”. **Riley S** & Kendrick K. Envision Conference, St. Louis, MO; September 2011.
“Envision Assistive Technology Camp: results of computer training for youth with low vision and blindness”. **Riley S** & Cochran B. Envision Conference, St. Louis, MO; September 2011.
“The Current State of Vision Replacement Assistive Devices”. **Riley S.** Kansas Chapter of The Association for Education and Rehabilitation of the Blind and Visually Impaired Annual Conference/The Kansas State School for the Blind, Kansas City, KS; October 2012.

C. Contribution to Science

1. User Password Practices: My Master’s Thesis focused on determining what users knew were safe password generation strategies compared to practices that they self-reported using. This information was intended to be used to develop secure, user-friendly account access methods.
 - a. **Riley, S.** (2006). Password security: What users know and what they actually do, *Usability News*, 8.1, Available at: <http://psychology.wichita.edu/surl/usabilitynews/81/Passwords.htm>
2. Assistive Technology (AT) Camp: This research presented the Envision AT Camp and the outcome measures and performance of AT Camp attendees. This information is intended to be used as a model for the development for AT training camps.
 - a. **Riley, S.** (2011). Envision Assistive Technology Camp 2010. *Visibility*, Vol. 5, Issue 1 (pp. 14 – 18). Available at:
http://www.envisionus.com/uploadedFiles/Media_Library/VisibilityVol5.Issue1_11.pdf
3. Falling Less in Kansas (LinkS): This research presented information and a model for the development of a community health tool that could be administered by non-medical professionals to address the the components of falls among older adults.
 - a. Radebaugh, T.S., Bahner, C.A., Ballard-Reisch, D., Epp, M., Hale, L.S., Hanley, R., Kendrick, K., **Riley, S.**, Rogers, S., Rogers, N. (2011). The Falling Less in Kansas Toolkit: A Self-Care Intervention, *Visibility*, Vol. 5, Issue 3 (pp. 11 – 13). Available at:
http://www.envisionus.com/uploadedFiles/Media_Library/VisibilityVol5.Issue3.pdf

Complete List of Published Work in Google Scholar:

<http://scholar.google.com/citations?user=F9-psPwAAAAJ&hl=en&oi=ao>

D. Research Support

Completed Research Support

Envision, Inc.

October 2011 – March 2013

BrainPort Vision Device Clinical Trial Research Study – A yearlong clinical trial research study, overseen by the FDA, that evaluated the safety and efficacy of the BrainPort Vision Device. Duties included acting as: site coordinator, compliance officer, participant recruiter, scheduler and trainer and primary research associate.

Role: Primary Research Associate

Completed Unfunded Research

Envision, Inc.

2011-2014

Envision Assistive Technology (AT) Camp Computer Skills Assessment and Program Evaluation –

Responsible for collaborating with instructors/director in the design and construction of the assessment, as well as training assessors, conducting the pre- and post-camp assessments, analyzing the data and writing both a final internal report and external articles and research presentations.

Role: Team Member