Rowdy Raider

292 Joshi Research Center □ Dayton, OH 45435 □ (937) 775-4491 □ raider.2@wright.edu

**Education**

**Doctor of Philosophy in Engineering** **December 2017**

Wright State University Dayton, OH

GPA: 3.9

**Master of Science in Human Factors Engineering**  **May 2010**

Wright State University Dayton, OH

GPA: 3.8

**Bachelor of Science in Psychology** **May 2000**

The Ohio State University Columbus, OH

GPA: 3.5

**RELEVANT COURSEWORK**

* Engineering Health Systems
* Human Factors Engineering
* Human Factors Engineering in Computer Design
* Human Factors Engineering in Mobile Computing
* Human Factors Engineering of Visual Displays
* Industrial Ergonomics
* Statistical Methods
* Systems Engineering & Analysis

**cOMPUTER Skills**

* Access
* Microsoft Office (Excel, PowerPoint, Word)
* R Software
* SAS
* SPSS
* SQL

**Research projects**

**Development of Virtual Patient for Teaching Communication Skills 2011-2013**

* Developed input and framework for functional prototype virtual patient for teaching communication skills
* Observed training of standardized patients for assessing Wright State University medical students on communication skills

**Use of High Fidelity Simulators at VA Medical Center Jan 2012-Sept 2012**

* Created surveys and collected data in support of Women Veterans project using computer-based learning and simulators for training primary care physicians in gynecological evaluations
* Conducted research on the use and development of high fidelity patient and laparoscopic simulators

**relevant experience**

**Administrative Support Clerk 2009-2013**

Department of Veterans Affairs Medical Center, Dayton, OH

* Conducted system analyses of first surgical case delays
* Created and maintained Microsoft Access database of medical students/residents
* Wrote multiple internal and external grant proposals

**Graduate Assistant 2007- 2009**

Department of Biomedical, Industrial and Human Factors Engineering

Wright State University, Dayton, OH

* Collected data, documented interviews and assessed surveys regarding the use of training simulators in the petrochemical industry
* Conducted literature review and research support towards the development of a visualization system designed to support decision making in complex environments

**other Experience**

**Seasonal Sales Associate Jan 2016-Dec 2016**

Macy’s Department Store, Dayton, OH

* Recommended cosmetics and fragrances based on customer needs
* Operated cash register

**Scorer May 2014-June 2015**

Pearson Publishing, Columbus, OH

* Scored standardized tests for multiple grades, subjects and states using project specific scoring guidelines
* Consistently exceeded validity, rate and reliability requirements for multiple projects

**AWARDS**

Dean’s List

FASEB Leadership Development and Grant Writing Seminar Travel Award

Wright State University College of Engineering and Computer Science Ph.D. Assistantship

Wright State University Graduate School Retention Scholarship

**PUBLICATIONS**

Vine, B., Parsons, P. J., Sams, R., Smith, S., & Gilmore, J. (In Press). A dual bin-packing approach to scheduling surgical cases at a publicly-funded hospital. *European Journal of Operational Research, 224*(3), 583-591.

Gilmore, J., Smith, S. & Sams, R. (2010). Virtual Environments. In Scott, R.P., Van Diepen, L.R., Markert, R.J (Eds.), *Simulation Update: A Review of Simulation-Based Strategies for Healthcare, Education & Training* (76-96). Washington, D.C.: Department of Veterans Affairs.

Smith, S.L. & Sams, R.P. (2010). The first computer-controlled patient simulator. SimLEARN:Excellence in Veterans’ Healthcare Newsletter: Summer 2010, 1(2).

Smith, S.L., Gilmore, J.J., Krush, P. & Sams, R.P. (2010). Virtual patients for communication. Proceedings of 3rd International Conference on Applied Human Factors and Ergonomics. July 17-20, 2010. Miami, FL.

Gilmore, J.J., Smith, S., Warren, R. & Nutter, W. (2007). Concepts for an agent-based visualization tool for presentation of information with uncertainty. Proceedings of SPIE- The International Society for Optical Engineering, Orlando, FL.

**CONFERENCE PRESENTATIONS/EXHIBITS**

August 2010. SimLEARN –Virtual Patient exhibit. VHA eHealth University (VeHU) Annual Training Conference. Las Vegas, NV.

July 2010. *Virtual patients for communication.* 3rd International Conference on Applied Human Factors and Ergonomics (AHFE). Miami, FL.