

Phillip Walker

pmwalk@gmail.com • www.pmwalk.com

EDUCATION

- Doctor of Philosophy, Intelligent Systems** March 2017
University of Pittsburgh
Dissertation: “Improving Operator Recognition and Prediction of Emergent Swarm Behaviors”
- Master of Science, Intelligent Systems** December 2012
University of Pittsburgh
- Bachelor of Arts, cum laude, Cognitive Science and Economics** May 2010
The College of William and Mary

RESEARCH

- Usability Lab** August 2010 – April 2017
The University of Pittsburgh School of Information Sciences
- Investigated human control of robotic swarms, biologically-inspired rules for emergent swarm behaviors, and visualizations of swarms for operators
 - Designed and conducted multiple user studies, and submitted and edited papers and grant proposals
 - Implemented and currently maintain an agent-based swarm simulator in CUDA and OpenGL
- Cognitive Psychophysiology Lab** May 2009 – May 2010
Sensation and Perception Lab May 2008 – May 2009
The College of William and Mary Psychology Department
- Created a cognitive science major and conducted user studies as part of the Sensation and Perception Lab
 - Assisted in data analysis and submissions to scientific journals for the Cognitive Psychophysiology Lab.

AWARDS AND ACHIEVEMENTS

- University of Pittsburgh Mellon Doctoral Fellowship August 2013 – August 2014
- Human Factors and Ergonomics Society Annual Conference CSTG Best Paper Award September 2013
“Levels of Automation for Human Influence of Robotic Swarms”

EMPLOYMENT

- Researcher** May 2017 – Present
Smart Information Flow Technologies (SIFT, LLC)
- Java Developer Intern** May 2010 – August 2010
Perceptronics Solutions
- Writing Consultant** March 2008 – May 2010
College of William and Mary Writing Resources Center

SKILLS AND EXPERIENCE

- Programming: significant experience with C, C++, parallel programming in CUDA, Java, Perl, Python, R languages and Git version control; prior experience with MATLAB and MIT Proto
- Design and Typesetting: experience with Unreal Development Kit (UDK), Tableau, HTML, CSS, and TeX
- Research: eight years of experience conducting user studies; significant experience in statistical analysis and research design
- Embedded Systems: assembly and prototyping experience with microcontrollers including mbed and Arduino