

Sarah Elder

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Education

North Carolina State University, Raleigh, NC

MS, PhD Computer Science

Provost Fellowship Recipient (2015-2016), Graduate Research Assistant (2016-2017)

GPA: 3.7

Anticipated PhD: 2019

University of Virginia, Charlottesville, VA

BA Computer Science, BA History

GPA: 3.6

Graduation Date: May 2012

Experience

IBM, I/T Specialist, DC Metropolitan Area

2012-2015

- Prepared test plans and test data, and analyzed defects found in a claims management system
- Provided guidance and training to new members of the test team
- Performed requirements analysis and researched interoperability standards for use in an online educational assessment system
- Assisted in multiple proposal efforts

Corporation for National Research Initiatives, Intern, Charlottesville, VA

2012

NASA Langley Research Center, DEVELOP/LARSS Summer Intern, Hampton, VA

2011

Current Research Activity

Dissertation Topic: *Identifying and Consolidating Security Requirements in Regulatory Documents*

Related Activities:

- Student volunteer at the 24th International Requirements Engineering Conference (RE '16)
- Student participant in the Science of Security lablet at NCSU (2016-2017)
- Selected to participate in the 2017 CRA-W Grad Cohort Workshop and poster session

Service

NC State STARS, Raleigh, NC

- Assisted in Saturday sessions that teach programming skills to students from underserved populations

IBM Public Sector Women's Networking Group (PSWNG), DC Metropolitan Area

- Participated in the IBM's Public Sector Women's Networking Group (PSWNG) mentoring program
- Volunteered with the PSWNG teaching Saturday classes at a charter school in Washington D.C.

Selected Graduate Coursework

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|--|------------------------|-------------------------------|
| • Human Computer Interaction | • Software Security | • Computational Applied Logic |
| • Software Engineering as a Human Activity | • Software Engineering | • Experimental Statistics |
| | • Networks | • Operating System Security |

Technical Skills

Proficient In: Java, MySQL, Selenium (Webdriver)

Familiar With: Python, R, C++, HTML, Javascript, MS Office, Linux, Windows, WEKA

Peer-Reviewed Publications

Riaz, M., **Elder, S.**, Williams, L., "Systematically Developing Prevention, Detection, and Response Patterns for Security Requirements", 3rd International Workshop on Evolving Security and Privacy Requirements Engineering (ESPRE), Beijing, China, September 2016

Johnson, B., Pandita, R., Smith, J., Ford, D., **Elder, S.**, Murphy-Hill, E., Heckman, S., Sadowski, C., "A Cross-Tool Communication Study on Program Analysis Tool Notifications," Proceedings of the 2016 24th ACM SIGSOFT International Symposium on Foundations of Software Engineering, Seattle, WA, October 2016, pp. 73-84