Samuel Mergendahl

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Education

Sept. 2016 – Present **MS/PhD**, University of Oregon - Eugene
Major: Computer Science (GPA: 4.0)

Sept. 2011 – Dec. 2015 **BS**, University of Wisconsin - Madison
Majors: Computer Science, Mathematics
Minor: Scandinavian Studies

Employment

Sept. 2016 – Present **Center for Cyber Security and Privacy**, Research Assistant
- Work with Dr. Jun Li at the University of Oregon on original research in network security
- Design and evaluate novel security protocols for the Internet of Things (IoT)
- Emphasis on IoT-enabled distributed denial-of-service (DDoS) attacks and countermeasures

Sept. 2016 – June 2017 **College of Computer and Information Sciences**, Teaching Assistant
- Assisted in teaching *Fluency with Information Technology* and *Intermediate Data Structures* at the University of Oregon
- Prepared course materials and helped students develop Java programs

June 2013 – June 2015 **College of Mathematics**, Teaching Assistant
- Assisted in teaching *Advanced Algebra* and *Calculus II* at the University of Wisconsin
- Held office hours and led discussions

Sept. 2011 – Dec. 2014 **University of Wisconsin - Fetzer Center**, Data Management Assistant
- Data entry for a student database with hundreds of thousands of entries
- Digitalization of paper records
- Leveraged database queries in creation of student athlete quarterly reports

Publications

Mergendahl, S., Sisodia, D., Li, J., & Cam, H. "FR-WARD: Fast Retransmit as a Wary but Ample Response to Distributed Denial of Service Attacks from the Internet of Things." *International Conference on Computer Communication and Networks (ICCCN).* IEEE, 2018.

Sisodia, D., **Mergendahl, S.**, Li, J., & Cam, H. "Securing the Smart Home via a Two-Mode Security Framework." *International Conference on Security and Privacy in Communication Systems (SecureComm).* Springer, 2018.

Mergendahl, S., Sisodia, D., Li, J., & Cam, H. "Source-End DDoS Defense in IoT Environments." Short Paper. *Proceedings of the 2017 Workshop on Internet of Things Security and Privacy (IoTS&P).* ACM, 2017.

Skills and Experience

Academic	Networking, Wireless Networking, Network Security, Applied Cryptography
Programming	Java, C, Python, MATLAB, bash, OCaml, Kotlin
Web Development	HTML, CSS, Javascript, Apache, MySQL, PHP
Data Analysis	NumPy, scikit-learn, matplotlib, Jupyter notebooks
Other	LaTeX, git, subversion, ssh+tmux for remote development

Awards and Fellowships

Erwin & Gertrude Juilfs Scholarship in Computer and Information Science

2018 Oregon Cyber Security Day - Best Poster

ACM Workshop on Internet of Things Security and Privacy - Travel Grant