

Josephine Lamp

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Education

2018 – Present	PhD Student, Computer Science Olive B. and Franklin C. Mac Krell Jefferson Fellow [link] School of Engineering and Applied Science University of Virginia, Charlottesville, VA
2014 – 2018	BS in Biomedical Informatics Barrett, the Honors College, Arizona State University, Tempe, Arizona Graduated Summa Cum Laude Graduated with honors as Outstanding ASU Graduate (total of 17 students selected out of a graduating class of 15,000) [link]
2014	Apple Certified Macintosh Technician Tech ID: NT56FCB25F

Work Experience

Jan. 2015 – Jun. 2018	Undergraduate Researcher ASU Center for Cybersecurity and Digital Forensics, Tempe, AZ [link]
Aug. 2017 – May 2018	Research Affiliate Mayo Clinic, Scottsdale, AZ
May 2017 – Aug. 2017	Technology Early Career Development Intern Cigna, Phoenix, AZ
Jun. 2016 – Aug. 2016	Engineering Intern Performance Software, Phoenix, AZ
Aug. 2014 – Sept. 2016	Apple Certified Repair Technician Sun Devil Marketplace Apple Repair Center at ASU

Publications & Talks

CONFERENCE PAPERS:

A Logic-Based Learning Approach to Explore Diabetes Patient Behaviors

Josephine Lamp, Simone Silveti, Marc Breton, Laura Nenzi, and Lu Feng
In: Bortolussi L., Sanguinetti G. (eds) Computational Methods in Systems Biology. CMSB 2019. Lecture Notes in Computer Science, vol 11773. Springer, Cham [\[pdf\]](#)

ExSol: Collaboratively Assessing Cybersecurity Risks for Protecting Energy Delivery Systems

Josephine Lamp, Carlos E. Rubio-Medrano, Ziming Zhao and Gail-Joon Ahn
2019 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES), Montreal, Canada, April 15-18, 2019 [\[pdf\]](#)

The Danger of Missing Instructions: A Systematic Analysis of Security Requirements for MCPS

Josephine Lamp, Carlos E. Rubio-Medrano, Ziming Zhao and Gail-Joon Ahn



3rd International IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies: CHASE-MedSPT 2018, Washington, DC, USA, September 26-28, 2018 [[pdf](#)]

Ardent Health Aegis: Security Analysis and Monitoring for Medical Cyber-Physical Systems

Josephine Lamp

Barrett Honors Thesis [[pdf](#)]

Mutated Policies: Towards Proactive Attribute-based Defenses for Access Control

Carlos E. Rubio-Medrano, Josephine Lamp, Adam Doupé, Ziming Zhao and Gail-Joon Ahn

2017 Workshop on Moving Target Defense, in conjunction with CCS 2017, Dallas, TX, USA, October 30, 2017 [[pdf](#)]

OntoEDS: Protecting Energy Delivery Systems by Collaboratively Analyzing Security Requirements

Josephine Lamp, Carlos E. Rubio-Medrano, Ziming Zhao and Gail-Joon Ahn

3rd IEEE International Conference on Collaboration and Internet Computing, San Jose, CA, USA, October 15-17, 2017 [[pdf](#)]

Towards Adaptive and Proactive Security Assessment for Energy Delivery Systems

Josephine Lamp, Carlos E. Rubio-Medrano, Ziming Zhao and Gail-Joon Ahn

2017 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES), Pittsburgh, PA, USA, April 21, 2017 [[pdf](#)]

Towards a Moving Target Defense Approach for Attribute-based Access Control

Carlos E. Rubio-Medrano, Josephine Lamp, Marthony Taguinod, Adam Doupé, Ziming Zhao and Gail-Joon Ahn

1st ACM Workshop on Attribute-based Access Control (ABAC), New Orleans, LA, USA, March 11, 2016 [[pdf](#)]

POSTERS:

Trust Bubble: A Privacy-Preserving Framework for Data and Personnel Sharing in Diverse Health Networks.

Josephine Lamp, Robert Greenes, Edward Shortliffe

AMIA Annual Symposium 2018, San Francisco, CA, USA, September 26-28, 2018 [[pdf](#)]

Adaptive and Proactive Security Assessment for Energy Delivery Systems

Josephine Lamp, Vu Coughlin, Carlos E. Rubio-Medrano, Ziming Zhao, and Gail-Joon Ahn

CREDC Industry Workshop, Tempe, AZ, USA, March 27-29, 2017

TALKS:

Clinical Decision Support in the Era of Big Data and Machine Learning

Expert Reactor Panelist with Don Detmer, MD, MA, University of Virginia, Christopher Longhurst, MD, MS, FACMI, UC San Diego Health and Gretchen Purcell Jackson, MD, PhD, FACMI, IBM Watson Health

AMIA 2019 Health Informatics Policy Forum, National Press Club, Washington DC, USA December 5th, 2019 (Upcoming) [[link](#)]

Awards

- Received a [travel scholarship](#) award to attend CPS Week in Montreal, Canada, April, 2019 [[link](#)]
- Grad Cohort for Women 2019 [selected participant](#) in Chicago, IL, December 2018 [[link](#)]
- [Student Scholarship](#) to Women in Cybersecurity conference (WiCys) 2019 in Pittsburgh, PA, December 2018 [[link](#)]



- Jefferson Fellowship Recipient and UVa Distinguished Engineering Fellowship Recipient, August 2018 [\[link\]](#)
- Arizona State University Outstanding Graduate Award, May 2018 [\[link\]](#)
- National Center for Women in Technology Collegiate Award Finalist, March 2018 [\[link\]](#)

Service

Jan. 2019 – Present: Workshop Mentor at Computers4Kids [\[link\]](#)

Aug. 2019 – Present: Jefferson Journal of Science and Culture Editor-in-Chief [\[link\]](#)

Jan. 2019 – Present: Computer Science Graduate Student Group (CSGSG) Chair [\[link\]](#)