

BRYAN PEARSON

PERSONAL INFORMATION

University: University of Central Florida
College Unit: College of Engineering and Computer Science (CECS)
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BIOGRAPHY

Bryan Pearson joined the Department of Computer Science at the University of Central Florida as a Ph.D student in August 2018, under the supervision of Drs. Mostafa Bassiouni and Xinwen Fu. He received his B.S. in Computer Science from Stetson University (2014), with minors in Physics and Mathematics.

Bryan's research interests include security and forensics of wireless sensor networks (WSN) and Internet of Things (IoT) systems, networking quality of service (QoS), and IoT scalability. He has been publishing in several conferences and journals including IEEE International Conference on Communications, MDPI Sensors, and IEEE International Conference on Computing, Networking and Communications (ICNC).

EDUCATION

University of Central Florida Ph.D in Computer Science Focus: Internet of Things (IoT) security Advisor: Dr. Mostafa Bassiouni	<i>August 2018 - Present</i>
Stetson University B.S. in Computer Science Minors in Math and Physics Advisor: Dr. Daniel Plante	<i>May 2018</i> <i>GPA: 3.507 / 4.000</i>

RESEARCH INTERESTS

- IoT security and forensics
- Applications and solutions of WSN and IoT
- Networking and computer systems QoS
- Light cryptography implementation and optimizations

WORK EXPERIENCE

Graduate Research Assistant University of Central Florida, Department of Computer Science	<i>August 2018 - Present</i>
Graduate Assistant Florida IT Pathways to Success (Flit-Path)	<i>August 2018 - Present</i>
Instructor ID Tech Camps	<i>June 2017 - July 2018</i>
Clerical Assistant Stetson University, Departments of English/Computer Science	<i>May 2017 - June 2018</i>

SCHOLARSHIPS AND GRANTS

University of Central Florida IEEE ICC NSF Student Travel Grant	<i>April 2019</i>
Graduate Presentation Fellowship	<i>February 2019</i>
Graduate ORC Doctoral Fellowship	<i>August 2018</i>
Flit-Path NSF Grant	<i>August 2018</i>

Stetson University
Presidential Scholarship
Federal Pell Grant
Bright Futures FASA

August 2014 - May 2018
August 2014 - May 2018
August 2014 - May 2018

ACADEMIC ACTIVITIES

Committee Membership

1. Web Chair, *SecureComm Organizing Committee* 2019

PUBLICATIONS

1. B. Pearson, L. Luo, Y. Zhang, R. Dey, Z. Ling, M. Bassiouni, and X. Fu. On Misconception of Hardware and Cost in IoT Security and Privacy. *In proceedings of IEEE International Conference on Communications (ICC)*, Shanghai, China, May 2019.
2. L. Luo, Y. Zhang, B. Pearson, Z. Ling, H. Yu, and X. Fu. On the Security and Data Integrity of Low-Cost Sensor Networks for Air Quality Monitoring. *Sensors (Basel)*. Dec. 2018.
3. N. Domingo, B. Pearson, and Y. Jin. Exploitations of Wireless Interfaces Via Network Scanning. *In proceedings of IEEE International Conference on Computing, Networking and Communications (ICNC)*, Santa Clara, CA, 2017.

TECHNICAL SKILLS

Languages: C, Python, Java, MatLab, PHP, JavaScript

Software: Arduino IDE, ESP-IDF, Mongoose OS, AWS, Google Cloud, Node.js, Apache, Nginx, Spark, Docker

REFERENCES

Dr. Mostafa Bassiouni

Professor of Computer Science
Email: bassi@cs.ucf.edu

University of Central Florida

Dr. Xinwen Fu

Associate Professor of Computer Science
Email: xinwenfu@ucf.edu

University of Central Florida

Dr. Daniel Plante

Professor of Mathematics and Computer Science
Email: dplante@stetson.edu

Stetson University