

# BRYAN PEARSON

## PERSONAL INFORMATION

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**University:** University of Central Florida  
**College Unit:** College of Engineering and Computer Science (CECS)  
**Address:** Research 1, University of Central Florida  
**Email:** bpearson@knights.ucf.edu

## BIOGRAPHY

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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 Dr. 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

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

## RESEARCH INTERESTS

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

## WORK EXPERIENCE

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<b>Graduate Assistant</b> Florida IT Pathways to Success (Flit-Path)	<i>August 2018 - Present</i>
<b>Graduate Research Assistant</b> University of Central Florida, Department of Computer Science	<i>August 2018 - August 2019</i>
<b>Instructor</b> ID Tech Camps	<i>June 2017 - July 2018</i>
<b>Clerical Assistant</b> Stetson University, Departments of English/Computer Science	<i>May 2017 - June 2018</i>

## SCHOLARSHIPS AND GRANTS

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<b>University of Central Florida</b> 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

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### Committee Membership

1. Web Chair, *SecureComm Organizing Committee* *2019*

## PUBLICATIONS

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1. C. Gao, L. Luo, Y. Zhang, B. Pearson, X. Fu. Microcontroller Based IoT System Firmware Security: Case Studies. *In proceedings of IEEE International Conference on Industrial Internet (ICII)*, Orlando, FL, Nov. 2019.
2. 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.
3. 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.
4. 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

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

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

## REFERENCES

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### 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*