ANDREW BOGGIO-DANDRY

CONTACT

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EDUCATION

Second Year Student, August 2021
Ph.D.: Electrical & Computer Engineering
University At Albany,
State University of New York, Albany, NY
Concentration: Computing & Control Systems

August 2021
Master of Arts: Mathematics
University At Albany,
State University of New York, Albany, NY
Concentration: Applied Mathematics

May 2018
Bachelor of Science: Computer Engineering
University At Albany,
State University of New York, Albany, NY
- Summa Cum Laude, President's Award for Undergraduate Research

Minors: Mathematics, Computer Science

December 2014
Associate of Science: Mathematics & Science
Westchester Community College,
Valhalla, NY
- Graduation with Highest Distinction, Phi Theta Kappa Member

TECHNICAL SKILLS

• C • Java • Python • Linux • MySQL
• Computer Networking • Software Development • Debugging • Embedded Devices • System design • C++
• Visual Basic • LAN • Visual Studio
• GitHub • PHP • Shell Scripting
• Computer Science • AWS • UNIX • Data Structures • Windows • Microsoft Access
• SSL • Customer Support • APIs
• Operating Systems • JavaScript • Agile
• User Interface (UI) • HTML5 • Bootstrap
• Application Development • REST
• IT Project Management • LaTeX

PROFESSIONAL SUMMARY

Detail-oriented Computer Systems Engineer committed to improving system design and operations for reliable workflow management. Passionate individual skilled in experimental design, execution, and results tracking for field research activities and studies. Monitored industry and academic changes and reviewed lectures and assignments to identify and implement appropriate syllabus revisions. Communicates complex information in simple and concise format. Adept at cultivating strong relationships with professionals, educators, and students. Creates easy-to-follow guidelines and troubleshooting documentation for non-technical staff.

SKILLS

- Attention to Detail
- Computer Programming
- Data Entry
- Undergraduate Course Instruction
- Relationship Building
- Algorithmic Thinking
- Interpersonal Communication
- Critical Thinking
- Tutoring and Mentoring
- Findings Presentations
- Technical Assignment Grading
- Course Website Development

WORK HISTORY

June 2019 - May 2021
Research Project Assistant, ***State University of New York Research Foundation***

- Summarized results by preparing written reports, graphs, fact sheets and tables.
- Worked on an emergency notification application under the supervision of University at Albany Professors Zheleva and Bogdanov from the Department of Computer Science; Focused on back-end development (using Apache Tomcat, the Hibernate framework, the Spring framework and MySQL) and deployment of the mobile application to test users.
- Worked with faculty advisor Professor Soyata from the Department of Electrical & Computer Engineering studying IoT, Smart Cities, and Big Data.
- Worked on the CHRONOS project under the supervision of PI Dr. Dola Saha designing the architecture of the Cloud-RAN (NSF funded proposal, award #1823225) and testing RfSOC equipment.

January 2018 - May 2021
Graduate Teaching Assistant / Peer Advisor, ***University at Albany, State University of New York***, Albany, NY

- Responsible for leading weekly discussion and lab sections, and grading coursework
- Checked assignments, proctored tests, and provided grades according to university and faculty standards.
- Assisted faculty with preparing materials for upcoming classes.
- Attended lectures, tracked attendance, proctored and graded exams, entered and maintained grades, held office hours, provided support for projects and

PROFESSIONAL MEMBERSHIPS

- Part 107 Remote Pilot, certified 2018
- Institute of Electrical and Electronics Engineers (IEEE), Student Member Since 2017
- Association for Computing Machinery (ACM), Student Member Since 2017
- CompTIA A+, certified since 2010
- ServSafe Certified Food Safety Manager, certified since 2010

PEER REVIEWER

- TPC member, IEEE Global Information Infrastructure and Networking Symposium (GIIS 2018)
- TPC member, IEEE Global Information Infrastructure and Networking Symposium (GIIS 2019)

AWARDS

- **IEEE Charles LeGeyt Fortescue Graduate Fellowship, 2019-2020:** This highly competitive fellowship sponsored by the Institute of Electrical and Electronics Engineers (IEEE) is awarded to one U.S. graduate student each academic year
- **President's Award for Undergraduate Research, 2018**: Most prestigious research award for undergraduate students
- **2018 CREATE Symposium:** Andrew's work on the BeeNotified project led his team to third place at the New York State Industry for the Disabled (NYSID)'s annual Cultivating Resources for Employment with Assistive Technology (CREATE) Symposium

assignments, and provided review preparation for exams.

- Assessed students' knowledge, comprehension, and study habits to track progress and set realistic goals.
- Presented and drafted various scheduling options for students to help allocate time for classes, extra work, and free time.
- Supervised students to develop analytical and practical computer science amd engineering skills through labs and projects.

Instructed Lab Sessions:
- (Fall, 2020) IECE-141: C Programming for Engineers
- (Fall, 2020) IECE-420: Intro to VLSI
- (Spring, 2020) IECE-141: C Programming for Engineers
- (Spring, 2020) IECE-233: Programming at the Hardware/Software Interface
- (Spring, 2019) ICEN-200: C Programming for Engineers
- (Spring, 2019) ICEN-450: Design Lab II

September 2017 - November 2018
Graduate Research Assistant and Undergraduate Teaching, ***University at Albany, State University of New York***

- Exceeded goals through effective task prioritization and a great work ethic.
- Used coordination and planning skills to achieve results according to schedule.
- Analyzed the viability of UAV swarm perpetual flight through the lens of investigating methods of continuous energy replenishment based on queuing theory and conservation of energy. Paper on continuous energy replenishment for drone swarms accepted to IEEE's 2018 UEMCON conference.
- Conducted interdisciplinary research on the ethics of artificial intelligence.
- Maintained an atmosphere of academic learning and advancement to facilitate learning and development of critical thinking skills.
- Approached by various faculty and instructors to assist them in future instruction of their courses as a teaching assistant.

Instructed Lab Sessions:
- (Spring, 2018) ICSI/ICEN 333: Programming at the Software/Hardware Interface
- (Fall, 2017) ICSI 105: Computing and Information
- (Summer, 2017) ICSI/ICEN 213: Data Structures
- (Summer, 2017) ICSI/ICEN 210: Discrete Structures
- (Spring, 2017) ICSI/ICEN 213: Data Structures

PUBLICATIONS

Journal Publications

- H. Habibzadeh, **A. Boggio-Dandry**, Z. Qin, T. Soyata, B. Kantarci, H.T. Mouftah, (2018) "Soft Sensing in Smart Cities: Handling 3Vs Using Recommender Systems, Machine Intelligence, and Data Analytics," in IEEE Communications Magazine. doi: 10.1109/MCOM.2018.1700304
- H. Habibzadeh, K. Dinesh, O. R. Shishvan, **A. Boggio-Dandry**, G. Sharma and T. Soyata, (2019) "A Survey of Healthcare Internet-of-Things (HIoT): A Clinical Perspective," in IEEE Internet of Things Journal. doi: 10.1109/JIOT.2019.2946359

Conference Publications / Presentations

- **A. Boggio-Dandry**, and T. Soyata, (2018) "Perpetual Flight for UAV Drone Swarms Using Continuous Energy Replenishment," at the 2018 9th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), New York City, NY, USA, 2018. doi: 10.1109/UEMCON.2018.8796684
- K. Doke, N. Chengwang, **A. Boggio-Dandry**, P. Bogdanov, and M. Zheleva, (2019) "EApp: Improving Rural Emergency Preparedness and Response," at the 2019 on Wireless of the Students, by the Students, and for the Students Workshop (S3'19). ACM, New York, NY, USA, 12-12. doi: 10.1145/3349621.3355731

Book Chapters

- "Other GPU Programming Languages" In T. Soyata, "GPU Parallel Program Development Using CUDA," Chapman & Hall, 413–423.