Emily Herbert

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EDUCATION

University of Massachusetts Amherst, Amherst, MA . . . .**Jun 2018 – present**
PhD in Computer Science

Trinity University, San Antonio, TX . . . .**Aug 2014 – May 2018**
BS in Computer Science

RESEARCH EXPERIENCE

Univeristy of Massachusetts Amherst, Amherst, MA . . . .**Jun 2018 – present**
Simulation Input Modeling with Deep Learning

Advised by Dr. Peter Haas.
- Explore previous literature covering the cross-domain of simulation and deep learning.
- Implement deep learning models for input modeling.
- Create comprehensive report and prototype model.

Trinity University, San Antonio, TX . . . . **Jan 2017 – May 2018**
Audio Style Transfer with Deep Learning

Advised by Dr. Matthew Hibbs.
- Reviewed relevant domain literature covering style transfer, deep learning, and audio manipulation.
- Implemented deep learning models for audio style transfer.

TEACHING EXPERIENCE

University of Massachusetts Amherst, Amherst, MA . . . .**Sep 2018 – present**
Teaching Assistant
- Help students in the Mathematical Foundation for Informatics course with mathematical logic, set theory, and proof writing.
- Design and implement set operation visualization application to be used as a student educational tool.

Trinity University, San Antonio, TX . . . .**Aug 2016 – May 2018**
Teaching Assistant
- Assisted in the Principles of Computer Science I, Principles of Computer Science II, and Introduction to Programming Logic courses.
- Acted as a resource for students for help with Scala, ScalaFX, Akka, Java, JavaFX, and Greenfoot.
- Designed, implemented, and upkept test server for student projects using Scala, Akka, and Actors.
- Monitor student progress, host office hours, meet with students by appointment, host exam review sessions.

AWARDS

PLMW and POPL 2019 Scholarship . . . . **Nov 2018**
Scholarship awarded to new Programming Languages researchers to attend the 2019 Programming Languages Mentoring Workshop (PLMW) and Principles of Programming Languages Conference (POPL).

2018 UMass CICS Fellowship . . . .**Mar 2018**
Merit-based fellowship awarded to an outstanding graduate student applicant within the UMass Amherst College of Information and Computer Sciences (CICS).

INTERNSHIP EXPERIENCE

National Aeronautics and Space Administration (NASA), Langley, VA . . . . **Jun 2017 – Aug 2017**
NASA Internships, Fellowships, and Scholarships (NIFS) Intern
- Contributed to the NASA SAFEGUARD/SMART project.
- Designed and implemented system for on-board flight control of GPS devices.
- Refactored code from previous NASA flight missions to meet current mission standards.

General Electric (GE), Oil & Gas, Billerica, MA . . . .**Jun 2016 – Aug 2016**
Information Technology Leadership Program (ITLP) Intern
- Created asset tracking system for shop floor using RFID, Bluetooth LE, and Raspberry Pi.
- Worked with the SAP enterprise resource management software to automate EHSM compliance checks.

SERVICE

Trinity University

University Curriculum Council (UCC) . . . .**Aug 2017 – May 2018**
- Reviewed and approved university curriculum additions and changes.
- Served as the student representative for a student body of 2400.

Trinity University Women in Computing (TUWIC) . . . . **Jan 2016 – May 2018**
- Acted as a point of contact between the Trinity University Computer Science department and the collective body of female Computer Science majors.
- Organized club activities, recruited new members, maintained active club status.
- Hosted the 2017 TUWIC TECH Camp, a three week long tech bootcamp for middle-school aged girls interested in STEM.