Emily Herbert

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EDUCATION

University of Massachusetts Amherst, Amherst, MA .... **May 2023**
PhD in Computer Science

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

RESEARCH EXPERIENCE

University of Massachusetts Amherst, Amherst, MA .... **June 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
Programming Methodology, *Teaching Assistant* .... **Jan 2019 – May 2019**
Mathematical Foundation for Informatics, *Teaching Assistant* .... **Sept 2018 – Dec 2019**

Trinity University, San Antonio, TX
Principles of Computer Science II, *Teaching Assistant* .... **Jul 2017 – May 2018**
Introduction to Programming Logic, *Teaching Assistant* .... **Jan 2017 – May 2017**
Principles of Computer Science I, *Teaching Assistant* .... **Aug 2016 – May 2017**

GRANTS & AWARDS

David W. Stemple Scholarship in Computing .... **Jul 2019**
Provides support to a first-year graduate student in Computer Science pursuing a Ph.D. in Systems research.
UMass CICS Women's Travel Grant .... **May 2019**
Awarded to UMass CICS women to assist with conference travel expenses.
UMass CICS Travel Grant .... **May 2019**
Awarded to UMass CICS students to assist with conference travel expenses.
PLISS Studentship .... **Apr 2019**
Awarded to new programming languages and systems researchers to attend the 2019 Programming Languages Implementation Summer School (PLISS).
PLMW and POPL 2019 Scholarship .... **Nov 2018**
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**
Awarded to an outstanding graduate student applicant within the UMass CICS applicant pool.

INTERNSHIP EXPERIENCE

National Aeronautics and Space Administration (NASA), Langley, VA .... **June 2017 – Aug 2017**
NASA Internships, Fellowships, and Scholarships (NIFS) Intern
- Contributed to the NASA Safeguard autonomous drone geofencing 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 .... **June 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, San Antonio, TX

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.

RELEVANT COURSEWORK

University of Massachusetts Amherst, Amherst, MA

Programming Languages . . . . Sept 2018 – Dec 2018
- Implement systems for program interpretation, type checking, verification, and compilation.