Emily Herbert

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emilyaherbert.com

Education

2018–2023 (expected) **PhD in Computer Science**, *The University of Massachusetts Amherst*, Amherst, MA.

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

Publications

Emily A Herbert, Wang Cen, and Peter J Haas. NIM: Generative Neural Networks for Simulation Input Modeling. *SCS Summer Simulation Conference.* 2019. [paper]

Conference Talks & Posters

Wang Cen, Peter J Haas, **Emily A Herbert**. NIM: Generative Neural Networks for Simulation Input Modeling. *INFORMS Winter Simulation Conference.* 2019. [poster, to appear]

Emily A Herbert, Wang Cen, Peter J Haas. NIM: Generative Neural Networks for Simulation Input Modeling. *SCS Summer Simulation Conference.* 2019. [talk]

Service

2019 Winter Simulation Conference Poster Session Reviewer

Awards & Scholarships

July 2019 **David W. Stemple Scholarship in Computing**, *University of Massachusetts Amherst*.
Provides support to a first-year graduate student in Computer Science pursuing a Ph.D. in Systems research.

May 2019 **UMass CICS Women's Travel Grant**, *University of Massachusetts Amherst*.
Awarded to UMass CICS women to assist with conference travel expenses.

May 2019 **UMass CICS Travel Grant**, *University of Massachusetts Amherst*.
Awarded to UMass CICS students to assist with conference travel expenses.

April 2019 **PLISS Studentship**.
Awarded to new programming languages and systems researchers to attend the 2019 Programming Languages Implementation Summer School (PLISS).

Nov 2018 **PLMW and POPL 2019 Scholarship**, *SIGPLAN*.
Awarded to new programming languages researchers to attend the 2019 Programming Languages Mentoring Workshop (PLMW) and Principles of Programming Languages Conference (POPL).

Mar 2018 **2018 UMass CICS Fellowship**, *University of Massachusetts Amherst*.
Awarded to an outstanding graduate student applicant within the UMass CICS applicant pool.

Research Experience

May 2019 - present **PLASMA Lab**, *University of Massachusetts Amherst*.
Programming Languages and Systems at Massachusetts lab (PLASMA), advised by Dr. Arjun Guha. Researching programming languages tools for serverless computing.
plasma-umass.org

June 2018 - May 2019 **DREAM Lab**, *University of Massachusetts Amherst*.
Data systems Research for Exploration, Analytics, and Modeling lab (DREAM), advised by Dr. Peter Haas. Researching deep learning methods for simulation input modeling.
dbgroup.cs.umass.edu/

Teaching Experience

Sep 2018 - May 2019 **University of Massachusetts Amherst**, *Amherst, MA.*
Programming Methodology, *Teaching Assistant*
Mathematical Foundation for Informatics, *Teaching Assistant*

Aug 2016 - May 2018 **Trinity University**, *San Antonio, TX*.
Principles of Computer Science II, *Teaching Assistant*
Introduction to Programming Logic, *Teaching Assistant*
Principles of Computer Science II, *Teaching Assistant*

Internship Experience

June 2017 – Aug 2017 **National Aeronautics and Space Administration (NASA)**, *Langley, VA*.
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.

June 2016 – Aug 2016 **General Electric (GE), Oil & Gas**, *Billerica, MA.*
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.

Relevant Coursework

Completed at University of Massachusetts Amherst.
Programming Languages, Programming Languages Seminar, Systems, Research Methods

Completed at Trinity University.
Computer Science Thesis I & II, Programming Languages, Operating Systems, Big Data, Software Engineering, Principles of Functional Languages, Theoretical Computer Science, UNIX Power Tools, Principles of Computer Design, Data Abstraction, Game Theory, Discrete Data Structures, Linear Algebra, Competitive Programming