Emily Herbert

herbert.emilyanne@gmail.com • (260) 241-6872 • github.com/eherbert

EDUCATION

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

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

SKILLS

Languages
Scala, Python, C++, Java, Haskell, C, C#, JavaScript, MIPS, R

Libraries
Pytorch, Numpy, Keras, Tensorflow, Akka, ScalaFX, JavaFX, Matplotlib, Deeplearning4j, MLib, Tensorboard

Software
Eclipse, Greenfoot, Unity, Visual Studio, VxWorks

Tools
Apache Spark, LaTeX, XML, HTML, CSS, JSON, Alex, Happy

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 relevent domain literature covering style transfer, deep learning, and audio manipulation.
- Implemented deep learning models for audio style transfer.

WORK EXPERIENCE

University of Massachusetts Amherst, Amherst, MA ..... **Sep 2018 – present**
Teaching Assistant

- Help students in the Mathematical Foundation for Informatics course with 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.

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.

Compiled on November 29, 2018, available at github.com/eherbert/cv.git.