

# Emily Herbert

emilyherbert@cs.umass.edu • emilyherbert.com

<b>EDUCATION</b>	<b>University of Massachusetts Amherst</b> , Amherst, MA ..... <b>May 2023</b> PhD in Computer Science <b>Trinity University</b> , San Antonio, TX ..... <b>May 2018</b> BS in Computer Science
<b>SKILLS</b>	<b>Languages</b> Scala, Python, C++, Java, Haskell, OCaml, C, C# <b>Libraries</b> Pytorch, Numpy, Keras, Tensorflow, Akka, ScalaFX, JavaFX, Matplotlib, Deeplearning4j, MLib, Tensorboard <b>Software</b> Eclipse, Greenfoot, Unity, Visual Studio, VxWorks <b>Tools</b> Apache Spark, LaTeX, XML, HTML, Alex, Happy
<b>RESEARCH EXPERIENCE</b>	<b>University of Massachusetts Amherst</b> , Amherst, MA ..... <b>June 2018 – present</b> Simulation Input Modeling with Deep Learning Advised by Dr. Peter Haas. <ul style="list-style-type: none"><li>• Explore previous literature covering the cross-domain of simulation and deep learning.</li><li>• Implement deep learning models for input modeling.</li><li>• Create comprehensive report and prototype model.</li></ul> <b>Trinity University</b> , San Antonio, TX ..... <b>Jan 2017 – May 2018</b> Audio Style Transfer with Deep Learning Advised by Dr. Matthew Hibbs. <ul style="list-style-type: none"><li>• Reviewed relevant domain literature covering style transfer, deep learning, and audio manipulation.</li><li>• Implemented deep learning models for audio style transfer.</li></ul>
<b>WORK EXPERIENCE</b>	<b>University of Massachusetts Amherst</b> , Amherst, MA ..... <b>Sept 2018 – present</b> Teaching Assistant <ul style="list-style-type: none"><li>• Help students in the Mathematical Foundation for Informatics course with with mathematical logic, set theory, and proof writing.</li><li>• Design and implement set operation visualization application to be used as a student educational tool.</li></ul> <b>Trinity University</b> , San Antonio, TX ..... <b>Aug 2016 – May 2018</b> Teaching Assistant <ul style="list-style-type: none"><li>• Assisted in the Principles of Computer Science I, Principles of Computer Science II, and Introduction to Programming Logic courses.</li><li>• Acted as a resource for students for help with Scala, ScalaFX, Akka, Java, JavaFX, and Greenfoot.</li><li>• Designed, implemented, and upkept test server for student projects using Scala, Akka, and Actors.</li><li>• Monitor student progress, host office hours, meet with students by appointment, host exam review sessions.</li></ul> <b>National Aeronautics and Space Administration (NASA)</b> , Langley, VA ..... <b>June 2017 – Aug 2017</b> NASA Internships, Fellowships, and Scholarships (NIFS) Intern <ul style="list-style-type: none"><li>• Contributed to the NASA Safeguard autonomous drone geofencing project.</li><li>• Designed and implemented system for on-board flight control of GPS devices.</li><li>• Refactored code from previous NASA flight missions to meet current mission standards.</li></ul> <b>General Electric (GE), Oil &amp; Gas</b> , Billerica, MA ..... <b>June 2016 – Aug 2016</b> Information Technology Leadership Program (ITLP) Intern <ul style="list-style-type: none"><li>• Created asset tracking system for shop floor using RFID, Bluetooth LE, and Raspberry Pi.</li><li>• Worked with the SAP enterprise resource management software to automate EHSM compliance checks.</li></ul>