

..... **201905** BS in Engineering Science Skills Skills PDF:Skills

Languages Scala, Python, C++, Java, Haskell, OCaml

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, Alex, Happy Research Experience Research Experience PDF:Research Experience

..... **20180615 – 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.

..... **20170115 – 20180515** 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. Work Experience Work Experience PDF:Work Experience

.. **20180915 – 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.

..... **20160815 – 20180515** 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 **20170615**

– **20170815** 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 **20160615 – 20160815** 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.