Xiang Cheng

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EDUCATION

Virginia Polytechnic Institute and State University **VA, US**
Ph.D., Computer Science 2018-2023

University of Electronics Science and Technology of China **China**
B.Eng., Electronic and Electrical Engineering, Excellent Graduation Title 2014-2018

University of Glasgow **the United Kingdom**
B.Eng.(hons), Electronic and Electrical Engineering, with Honors of the First Class 2014-2018

Bachelor Ranking：1/229

Major Honors & Awards

Excellent Graduation Title from Sichuan Province Government	Jun 2018
Excellent graduation thesis award from UESTC	Jun 2018
Dean's List Scholarship (Top 5% of all)	Oct 2017
National scholarship (Top 2% of all)	Oct 2017
Dean's List Scholarship (Top 5% of all)	Oct 2016
National scholarship (Top 2% of all)	Oct 2016

Experience

Virginia Polytechnic Institute and State University Sept 2018 – Jun 2019
Research Assistant
- Investigating security threats in medical diagnosis systems
- Internet bot detection using deep learning method

Intelligent Data Analytics Lab, Michigan State University, East Lansing, Michigan, US
Research Intern Jul 2017-Sept 2017
- Built a python pipeline for an MCI prediction model using machine learning
- Helped group members preprocess data and train GAN models

Statistical Machine Intelligence and Learning Lab, UESTC, Chengdu, China
Research Assistant Mar 2016-May 2018
- Implement several tasks related to data mining and machine learning using MATLAB, Python and C++

Publications

Jialin Tian, Yazhou Ren, **Xiang Cheng**." Stratified Feature Sampling for Semi-Supervised Ensemble Clustering." In IEEE Access, 2019.

Projects

Research Project: 'Medical Image Attack' Sep 2018-Present
Team leader (3 members group)
- Design the algorithm and build the framework in Tensorflow for medical image attack.
- Organize the experiment result and writing the paper.

Research Intern Project: 'MCI prediction from spontaneous spoken utterance' Jul 2017-Sept 2017
Individual Project
- Designed and implemented ML models based on natural language processing methods from spontaneous spoken utterance

Academic Research Project: 'Semi-supervised Ensemble Learning' Nov 2016-Sept 2017
Team leader (3 members group)

- Developed and implemented a new idea to improve the performance of a semi-supervised ensemble clustering algorithm

Junior team project: 'Artificial Neural Network Based Self Driving Vehicle' Dec 2016-Jun 2017
Team leader (10 members group)

- Designed the software system for a self-navigating vehicle using a neural network-based vision system

Extra-curricular Activities

International volunteer for turtle protection, Indonesia Jul 2016 to Aug 2016
Member of Student Representative Council, Glasgow College, UESTC Sept 2016 to Jul 2018
Member of Student Union, Glasgow College, UESTC Sept 2014 to Sept 2015

Skills & Interests

- Programming Language: Proficient in C, C++， Python, Tensorflow, Pytorch, Keras, MATLAB, TeX, also basic ability with Assembly, VHDL
- Industry Software Skills: SolidWorks (advanced), MATLAB (advanced), Cadence ORCAD(intermediate), LTspice (intermediate)
- Interest: swimming, hiking and reading