

JIAQING(STEVEN) XIE

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EDUCATION

University of Edinburgh, United Kingdom

August 2019 - Present

Bachelor of Engineering(with Honours) Electronics and Computer Science
GPA 83.8/100 (4.0/4.0) Currently a year-two student.

Huazhong University of Science and Technology, China

September 2017 - June 2019

Bachelor of Engineering Electronic Science and Technology
GPA 84.18/100 (3.7/4.0)

JOURNAL PUBLICATIONS

Maohui Luo, Jiaqing Xie, Yichen Yan, Zhihao Ke, Peiran Yu, Zi Wang, Jingsi Zhang, Comparing machine learning algorithms in predicting thermal sensation with ASHRAE Comfort Database II, Energy and Buildings, 2020.

CONFERENCE PROCEEDINGS

Still keep writing conference paper(Mainly on GNN, which will be ideally finished by June, 2020)

RESEARCH EXPERIENCE

Graph Neural Network Research

January 2020 - Now

Researcher, supervised by Zhitao(Rex) Ying from Stanford University

Edinburgh

- Using Pytorch and Tensorflow Framework to make some small generative models on Graph.
- Being familiar with Graph Neural Network and frontier research on representation learning.
- Currently either trying to do optimizations on the previous work to surpass a state-of-the-art result or trying to do some applications.
- Writing the Paper on it.

Toy Datasets Generation Approach

January 2020 - Now

Researcher, supervised by Maria Perez Ortiz from University College London

Edinburgh

- Trying to make a toy dataset generator toolkit from the current MATLAB's version to the version of Python.
- Writing the Paper on it.

Application of Supervised Machine Learning Algorithms

July 2019 - August 2019

Research Assistant, supervised by Dr.Maohui Luo

University of California, Berkeley

- Using scikit-learn packages from python to realize machine learning predictions on human thermal comfort, which is a pioneering work in the field of thermal comfort.
- Be responsible for all Python programming part and most of the graph outputs from Matlab.
- Paper being published in Energy and Buildings in January, 2020 as a second author.

INTERNSHIPS

Not yet.

PROJECTS

Human Thermal Comfort Prediction Project

July 2019 - now

Main participator, advisor: Dr. Maohui Luo

- A series of work that will be done on building intelligent prediction systems on thermal comfort with wearable devices.
- Working as the leading team member to do programming and design toolkits.

Asteria Space and Satellite Project

February 2020- now

Group Member

- A new member at Asteria Project Group, which aims to launch satellite by the end of 2021.
- Will: learn cross-disciplinary skills and help to build a satellite.

AWARDS

Scholarship from University of Edinburgh, 2019

Freshmen Scholarship from Huazhong University of Science and Technology, 2017

Outstanding member of Huazhong University of Science and Technology, 2018

RESEARCH INTERESTS

Mainly on : Machine learning, Deep learning, Graph Neural Network, Knowledge Graph, Data Mining

I have great interest in the cross-disciplinary projects, including medicine, civil engineering and signal processing with machine learning. Also, my main research also includes Graph Neural Networks and Knowledge Graphs

Currently I have been doing researches on Graph Neural Network and Knowledge Graph with PhD student Zhitao(Rex) Ying(Stanford), whose is supervised by Jure Leskovec.

TECHNIQUES

*Programming language: Python(Fluent), C++, C, MATLAB, R ,Java(A little), Javascript(A little),
Framework: Pytorch, Tensorflow, Scipy, Numpy*

EXTRACURRICULAR ACTIVITIES

Freshman Football Match Championship, November 2017

Entrepreneurship at Duke University, January 2019 - February 2019

Student Supervisor at Huazhong University of Science and Technology from September 2017 to February 2019

Go club member (Chinese Go amateur One Dan) and astronomy club member.