YUXI ZHANG

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Educational Background

- **PhD Electrical and Electronic Engineering** 10/2023-Now
  Imperial College London, UK
- **MEng Communications and Signal Processing** 10/2022-10/2023
  Imperial College London, UK
- **BEng Computer Science and Electronic Engineering** 09/2020-06/2022
  University of Liverpool, UK
  - First Class Bachelor's degree in Engineering
  - Ranking 2nd in the programme in Year 2 (GPA at undergraduate stage: 78%)
- **BEng Computer Science and Technology** 09/2018-06/2022
  Xi'an Jiaotong-Liverpool University, China
  - **Achievements:**
    University Academic Achievement Award in Year 0 and Year 1
    Outstanding Student in the academic year 2018-2019; Excellent Student Cadre 2019

Work Experience

- ***West Branch of China Academy of Information and Communications Technology:***
  - Worked as a project declaration assistant, helping complete several project declarations for various enterprises
  - Learned the applications of some cutting-edge technologies such as 5G and the Internet of Things integrated innovations

Publication

- Yuxi Zhang, *Realizing Blood Glucose Prediction by Convolutional Recurrent Neural Networks with Residual Blocks*, accepted for presentation at the 14th International Conference on Computer Science and Information Technology (ICCSIT 2021) and publication in the International Journal of Machine Learning and Computing (IJMLC)
- Yuxi Zhang, *A Deep Learning-Based Tool for Face Mask Detection and Body Temperature Measurement,* accepted for presentation at the 2022 5th International Conference on Signal Processing and Information Security (ICSPIS)

Project Experience

- ***Summer Project:*** Artificial Intelligence and Applications in Healthcare
  - Built a novel deep learning model by incorporating the causal dilated convolutional layers with residual blocks to predict blood glucose in the next 30 minutes
  - Learned the principles of convolutional neural networks (CNN) and recurrent neural networks (RNN)
- ***Final Year Project:*** Automatic Mask Detection and Temperature Measurements for Staff in Workplaces
  - Built a mask detector model based on a deep learning algorithm called MobileNetV2 and used fine-tuning strategy to improve the performance of the model
  - Used a non-contact thermal sensor MLX90614 with Arduino to measure temperature on the wrist
  - Showed the results of two functions on a well-designed GUI
  - Added an additional function of sending notifications to smartphones using an external app IFTTT

Leadership Experience and Volunteering

- Minister of Project Department, Youth Volunteer Association of Xi'an Jiaotong-Liverpool University
  - Managed 200 members 05/2019-05/2020
  - Successfully organized five volunteer projects and managed ten teams
- Volunteer, supporting education in Sri Lanka 01/2019
  - Awarded the 'International Volunteer Certificate'

Skills

- IT Skills: Python, C++, Java, SQL, Matlab; Multisim, LTSPice, Keil uVersion5, QuartusII