YUXI ZHANG

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Educational Background

- **PhD Electrical and Electronic Engineering**

  Imperial College London, UK | Oct 2023- Present
- **MEng Communications and Signal Processing**

  Imperial College London, UK | Oct 2022 – Oct 2023
  - ➢ Graduated with Distinction
- **BEng Computer Science and Electronic Engineering**

  University of Liverpool, UK | Sep 2020 – Jun 2022
  - ➢ First Class Honors
  - ➢ Ranked 2nd in the program (GPA: 78%)
- **BEng Computer Science and Technology**

  Xi'an Jiaotong-Liverpool University, China | Sep 2018 – Jun 2022
  - ➢ University Academic Achievement Award (Year 0 and Year 1)
  - ➢ Outstanding Student (2018-2019); Excellent Student Cadre (2019)

Work Experience

- ***West Branch of China Academy of Information and Communications Technology:***
  - ➢ Worked as a Project Assistant, supporting the preparation and submission of technical project proposals for enterprise clients.
  - ➢ Gained hands-on experience with emerging technologies such as 5G and IoT.

Publication

- Yuxi Zhang, *Deep Internal Learning for Single-Channel Speech Dereverberation*. Accepted for presentation at the 33rd European Signal Processing Conference (EUSIPCO 2025); to be published in the open-access proceedings of EURASIP and indexed in IEEE Xplore.
- Yuxi Zhang, *Realizing Blood Glucose Prediction via Convolutional Recurrent Neural Networks with Residual Blocks*. Presented at the 14th International Conference on Computer Science and Information Technology (ICCSIT 2021); published 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*. Presented at and published in the 5th International Conference on Signal Processing and Information Security (ICSPIS 2022).

Project Experience

- ***Summer Project:*** Artificial Intelligence and Applications in Healthcare
  - ➢ Developed a deep learning model combining causal dilated convolutions with residual blocks to predict blood glucose levels 30 minutes in advance
  - ➢ 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 detection model using MobileNetV2 with fine-tuning to enhance accuracy
  - ➢ Integrated a non-contact MLX90614 thermal sensor with Arduino to measure wrist temperature
  - ➢ Designed a user-friendly GUI to display real-time detection and temperature data
  - ➢ Implemented smartphone notifications via IFTTT for automated health alerts

Leadership Experience and Volunteering

- Minister of Project Department, Youth Volunteer Association of Xi'an Jiaotong-Liverpool University
  - ➢ Led and coordinated a team of 200 members across five volunteer projects   May 2019-May 2020
  - ➢ Successfully organized 5 volunteer projects and managed 10 teams
- Volunteer, supporting education in Sri Lanka   Jan 2019
  - ➢ Awarded the 'International Volunteer Certificate'

Skills

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