

# HAICHANG LI

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## EDUCATION

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**2020-22** **Xi'an Jiaotong-Liverpool University, Suzhou, China** **School of Advanced Technology**  
**University of Liverpool, Liverpool, UK** **Department of Electrical Engineering and Electronics**

- Study field: Electronic Science and Technology
- Level 1 results: First class honor (71%)

**2022-24** **Purdue University, West Lafayette, US** **Department of Computer Information Technology**

- B.Sc. Computer and Information Technology and minor in Communications
- Current GPA 4.0/4.0

Knowledge Background: Electrical/Electronic/Digital Circuit, Engineering Drawing, Integrated Electronics and Design, C Programming and Software Engineering, Systems Development, Object-oriented programming in JAVA, Python

## RESEARCH EXPERIENCES

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**AI to Music in Purdue Cam2 Lab** *Feb.2023- Jun.2023*

**Research Assistant**, Purdue University, *West Lafayette, US*

- Used MusicBert and BasicBitch to analyze audio files
- Used Stable Diffusion Model to generate the Image and Video
- Currently building a data set to convert audio to prompt based on emotions

**Data Analysis for Human Thermal Comfort Model** *Apr.2022- Aug.2022*

**Remote member**, Xi'an Jiaotong-Liverpool University, *Suzhou, China*

- Awarded by the scholarship of "Summer Undergraduate Research Fellowship" of XJTLU
- Established the thermal comfort model of human body based on PMV
- Using IBM SPSS software to integrate various methods to analyze the collected sports data

**XJTLU Thermal fluid laboratory** *Jun.2021- Jan.2022*

**Research Assistant**, Xi'an Jiaotong-Liverpool University, *Suzhou, China*

- Used ANSYS software to analyze and simulate the valve structure under high parameter conditions
- Completed a literature review on valve optimization under high parameter conditions
- Using SVM/BP neural network/interpolation established a data model for the calculation of thermophysical properties of R32

## LEADERSHIP AND ACTIVITIES

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**Associate Co-Chair**, *XJTLU IEEE Student Branch* *Apr.2021- May.2022*

- Founded the official account of "IEEE XJTLU Student Branch"
- Established IEEE Smart Village China in XJTLU in cooperation with IEEE smart village China
- Organized the registration channel of IEEE official activities such as Xtreme in XJTLU

**Minister of Creative publicity Department**, *XJTLU Science Innovation Association* *Oct.2020- May.2022*

- Managed and operated WeChat official account
- Established and promoted related activities, such as a MATLAB lecture in XJTLU with MathWorks

**Media and Public Relationship department**, *Purdue U CSSA* *Oct.2022- present*

- Organize large-scale activities to help the cultural integration and exchange between the United States and China in Purdue University.

- Gained the propaganda ability and organizational ability by the articles' publication in WeChat Platform.

**Contestants, Second prize, *The 21st "Win in XJTLU" Leadership Competition***

*Apr.2021-May.2021*

- selected the topic of "cyber violence" as the theme to investigate the methods to eliminate prejudice
- Produced a WeChat official account article calling the people to reduce prejudice
- Conducted the research study project by means of interviews and questionnaires

## **SKILLS**

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Programming Languages: Python , C, MATLAB, JAVA

Tools and Frameworks: Arduino, Microsoft Office, Photoshop, CAD, ANSYS

Languages: English (near fluent), Chinese (native)