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City University of Hong Kong

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Research Interests _____

Human Computer Interaction Wearables, Haptics, Usability

Education & Employment _____

City University of Hong Kong

Hong Kong, P.R.China

RESEARCH ASSISTANT

Sept 2018 - Present

• Collaborating with Dr. Kening Zhu

School of Electronic Engineering, UESTC (985,211)

Chengdu, P.R.China Sep. 2014 - July 2018

B.Eng. In Electronic Information

- GPA: 3.86/4, Average Score: 87.51/100, Ranking: 5/42
- Honorary Graduate of UESTC
- IELTS: Total 8.0; Reading 9.0, Listening 9.0, Speaking 8.0, Writing 6.5
- GRE: Total 326; Verbal 161, Quantitative 165, Analytical Writing 3.0

Shared Reality Lab, McGill University

Montreal, Canada

MITACS GLOBALINK INTERN

July 2017 - Oct. 2017

• Supervised by Prof. Jeremy Cooperstock (http://www.cim.mcgill.ca/jer/)

Ngee Ann Polytechnic

Singapore May 2017

SHORT-TERM VISITING STUDENT

Shenzhen, P.R.China

Siglent Co. Ltd.
INTERN

Aug. 2016

Publications

Pressure or Movement? Usability of Multi-Functional Foot-Based Interfaces

Second Author Sep. 2017

• Taeyong Kim, Hao Ju, and Jeremy Cooperstock. 2018. In proceedings of ACM SIGCHI Conference on Designing Interactive Systems (DIS) 2018. ACM. 1219-1227.

Research Projects

A Thermal-Based Displaying Device for the Visually Impaired

Hong Kong

RESEARCH ASSISTANT

Aug. 2018 - Present

• We are prototyping a thermal-based displaying device, set in the context of geographical education for the visually impaired schoolchildren. We are planning to investigate its usability (especially in picture displaying) compared with traditional Brailles.

Target Recognition and Tracking based on XGBoost (Thesis)

Chengdu, China

Undergraduate Researcher, UESTC

Oct. 2017 - May 2018

- Developed a supervised learning based target tracking algorithm and estimated its performance versus traditional target tracking
 algorithms (filtering algorithm: Kalman, LSM, target co-relating algorithms: JPDA, NNJPDA). Implemented in MATLAB and Python
- Received as poster presentation for IET International Radar Conference 2018

Raising the Heat Montreal, Canada

RESEARCH ASSISTANT, SHARED REALITY LAB, McGILL UNIVERSITY

Sep. 2017 - Oct. 2017

 A following-up research of the UIST Student Innovation Contest 2016 project "Raising the Heat", where the possibility of using Electro-Muscular Stimulation to simulate a burning-hot temperature was explored. Hardware and firmware prototype enhanced for more precise experiment results.

Usability of Multi-Functional Foot-based Interfaces

Montreal, Canada

RESEARCH ASSISTANT, SHARED REALITY LAB, McGILL UNIVERSITY

Jul. 2017 - Sep. 2017

• We compared the performance of two mainstream foot interaction methods (foot rocking and heel-pivoted rotation) in selection and parameter controlling tasks, set in the use case of a hands-free interface designed for seated musicians.

Data Secured USB Mass Storage Device

Chengdu, P.R.China

Undergraduate Researcher, School of Electronic Engineering, UESTC

Mar. 2017 - Present

- Developed a data secured USB Flash Disk capable of data encrypting, sending anti-losing alerts and data retrieving.
- Ranked 7th among 125 teams in the provincial final of the National 'Internet Plus' Innovation and Entrepreneurship Competition.

Network-based RF Device Analyzer

Chengdu, P.R.China

Undergraduate Researcher, School of Electronic Engineering, UESTC

Mar. 2016 - July 2016

- Developed a network-based RF device analyzer with 4 GHz bandwidth and 125 MHz baseband bandwidth based on Xilinx Virtex VC707.
- · Awarded second prize of Southwest China in 2016 National College Student Smarter Connected System Innovation Competition

Honors and Awards

HONORS AND SCHOLARSHIPS

Mitacs Globalink Graduate Fellowship

CAD 15,000, GIVEN TO FORMER GLOBALINK RESEARCH INTERNS RETURNING TO CANADA FOR GRADUATE STUDIES

Honorary Graduate of UESTC

10%	Oct. 2017
Renmin Scholarship 2017	
FIRST CLASS IN 2017, CNY 1,500 (USD 226)	Oct. 2017

National Internet Security Scholarship

CNY 30,000 (USD 4,556), 100 AMONG ALL UNDERGRADUATES AND GRADUATE STUDENTS IN CHINA PER YEAR Aug. 2017

Jiuzhou Scholarship 2016

CNY 1,000 (USD 150), 2 PER SCHOOL PER YEAR Sep. 2016

Renmin Scholarship 2015

THIRD CLASS, CNY 500 (USD 75) Oct. 2015

AWARDS

2017 'Internet Plus' Innovation and Entrepreneurship Competition

SECOND PRIZE (PROVINCIAL LEVEL)

Jul. 2017

OpenHW 2016 National College Student 'Smarter Connected' System Innovation

Competition

Second Prize of Southwest China Area Jul. 2016

National English Competition for College Students 2016

Special Prize in National Final (Class C, For non-English professionals), 0.1%

May. 2016

COMAP Interdisciplinary Contest In Modeling

HONORABLE MENTION, 30 % Apr. 2016

Relevant Skills _____

Programming C, C#, MATLAB, VHDL, LaTeX, Python

Tools Altium Designer, Quartus II, VICON, Unity 3D, AutoCAD

Embedded Systems Arduino, STM32, MCS 8051

Languages Chinese (native), English (fluent, IELTS 8.0), French (basic, CEFR A1, certified by Alliance Française)

SEPTEMBER 25, 2018 HAO JU · CURRICULUM VITAE 2