

# Hao Ju

MASTER STUDENT

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## Education

### Department of Information Studies, McGill University

Montreal, Canada

MIST IN INFORMATION STUDIES

Sept 2019 - Exp. June 2021

- Supervised by Dr. Karyn Moffatt (<http://act.mcgill.ca/karyn/>)

### School of Electronic Engineering, Univ of Electronic Sci & Tech of China (985,211)

Chengdu, P.R.China

B.ENG. IN ELECTRONIC INFORMATION

Sept. 2014 - July 2018

- GPA: 3.86/4.0 (Final year 3.91/4.0), Ranking: 5/42
- Honorary Graduate of UESTC
- Undergraduate thesis: Target Recognition and Tracking based on XGBoost

## Employment

### School of Creative Media, City University of Hong Kong

Hong Kong S.A.R., P.R.China

RESEARCH ASSISTANT

Sept. 2018 - May 2019

- Designed, developed and updated hardware and firmware prototypes.
- Collected data from experiments and performed data analysis.

### Shared Reality Lab, McGill University

Montreal, Canada

MITACS GLOBALINK INTERN

July 2017 - Oct. 2017

- Developed the hardware and firmware of a foot-based interactive system for seated musicians. Published at ACM DIS'18 conference
- Enhanced the performance of an existing prototype, improving detection accuracy of the system by approximately 10 times.
- Co-authored paper submission.

### Siglent Co. Ltd.

Shenzhen, P.R.China

INTERN

Aug. 2016

- Participated in the production management process at the leading domestic oscilloscope manufacturer.

## Publications

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

SECOND AUTHOR

Sept. 2017

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

### A Data-Driven XGBoost-Based Filter for Target Tracking

FOURTH AUTHOR

July 2018

- Bowen Zhai, Wei Yi, Ming Li, Hao Ju, and Lingjiang Kong. Poster presentation in IET Radar Conference 2018.

## Honors and Awards

### Ethelwyn Crossley Memorial Scholarship

CAD 4,620

May 2019

### Mitacs Globalink Graduate Fellowship

CAD 15,000

Mar 2019

### National Internet Security Scholarship

CNY 30,000 (CAD 5,680), 100 AMONG ALL UNDERGRADUATES AND GRADUATE STUDENTS IN CHINA PER YEAR

Aug. 2017

## 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

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