Franklin Mingzhe Li

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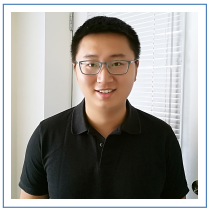

Education

Sept 2018 – present **Master of Science (Research Base)**,
University of Toronto, Computer Science (GPA 4.0/4.0).

Aug 2013 – May 2018 **Bachelor of Applied Science**,
University of Toronto, Electrical Engineering.

April 2015 – Present **Research Supervisor**,
Dr. Khai N. Truong (Sept 2015 – Present)
Dr. Daniel J. Wigdor (May 2015 – Sept 2015).

Publications

Sept 2019 FMT: A Wearable Camera-Based Object Tracking Memory Aid for Older Adults
Franklin Mingzhe Li, Di Laura Chen, Mingming Fan, Khai N. Truong
In Proceedings of ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2019.

Sept 2019 Face Recognition Assistant for People with Visual Impairments
Mohammad Kianpisheh, **Franklin Mingzhe Li**, Khai N. Truong
In Proceedings of ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2019.

Oct 2017 BrailleSketch: A Gesture-based Text Input Method for People with Visual Impairments
Franklin Mingzhe Li, Mingming Fan, Khai N. Truong
In Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), 2017.

June 2016 The Living Room: Exploring the Haunted and Paranormal to Transform Design and Interaction
Michelle Annett, Matthew Lakier, **Franklin Mingzhe Li**, Daniel Wigdor, Tovi Grossman, George Fitzmaurice
In Proceedings of the 2016 ACM Conference on Designing Interactive Systems (DIS), 2016.

Professional Experiences

May 2019 – Sept 2019 **Research Intern at Apple**, *Mentored by Dr. Jeffrey P. Bigham, and Dr. Xiaoyi Zhang*,
Worked on the research in Accessibility, and Machine Learning.

May 2016 – Aug 2017 **Analog Designer at AMD**,
Designed circuit test bench, Cadence layout & schematics, automating test bench, standard cell.

May 2015 – Aug 2015 **Research Intern at DGP Lab**, *Mentored by Dr. Daniel J. Wigdor, and Dr. Michelle Annett*,
Worked on the research in Human-Computer Interaction, and interaction techniques of multi-touch interfaces.

May 2014 – July 2014 **Amplifier Designer at Bowei Electronics**,
Participated in designing the amplifier and analyzing performance of the amplifier (Gain, Bandwidth, Standing wave, Phase Margin).

Research Interests and Projects

Research Directions and Methods: Human-Computer Interaction, Accessibility, Ubiquitous Computing, Quantitative and Qualitative Study, Participatory Design, Scenario-based Study.

May 2019 Smart reminders of subway system based on context awareness and machine learning.

Feb 2019 Real-time face recognition system for people with visual impairment **(IMWUT 2019)**.

Dec 2018 Mobile system for older adults to memorize states of objects through computer vision **(IMWUT 2019)**.

Sept 2018 Mobile system for visually impaired people to read menus of restaurants and record daily calories.

Oct 2018 Find lost objects via active acoustic sensing.

Aug 2018 Qualitative interviews for people with disabilities on misperception of assistive devices in China.

Apr 2017 Designed BrailleSketch and conducted evaluation with visually impaired people **(ASSETS 2017)**.

Jan 2016 Haunted user interaction design **(DIS 2016)**.

Jul 2015 Developed user identification of the DiamondTouch interface and used opengl to interpolate the data from the device.

Awards and Media Coverage

Sept 2019 **New Scientist:** Where have I left my wallet? This smart camera can remind you.

Sept 2018 **Faculty of Arts And Science Tuition Fellowship**, University of Toronto ($18558).

Nov 2018 **Faculty of Arts And Science Program-Level Fellowship**, University of Toronto ($1000).

Aug 2017 **Markham Intern of the Year Award Nominee**, AMD.

Aug 2015 **UTRECS Scholarship**, University of Toronto ($6000).

June 2013 **Euclid Mathematics Competitions top 5% Awards**, University of Waterloo.

Teaching Experiences and Community Services

Jan 2019 - April 2019 **Teaching Assistant**, *CSC258H1S: Computer Orgainization*.

Sept 2018 - Dec 2018 **Teaching Assistant**, *CSC258H1F: Computer Orgainization*.

Dec 2019 - May 2019 **Human-Computer Interaction Meeting Organizer**, *University of Toronto*.

Sept 2019 **Reviewer**, *CHI 2020 Full Paper: 2 papers*.

Jan 2019 **Reviewer**, *CHI 2019 Late Breaking Work: 5 papers*.

Activities

Sept 2016 - May 2017 **Vice Chair**, *IEEE University of Toronto Student Branch*.

Sept 2014 - May 2016 **Electronic Chapter Director**, *IEEE University of Toronto Student Branch*.

Sept 2014 - May 2015 **Skule Kup Student Representative**, *University of Toronto*.

Personal Interests and Languages

Cooking, Soccer, Hiking, Badminton, Swimming.

English (Proficient), Chinese (Native).