

# BONNIE HU

817 Sherbrooke St W, 456, Montréal, QC, Canada  
+1 438-929-1480 • [guanqing.hu@mail.mcgill.ca](mailto:guanqing.hu@mail.mcgill.ca) • <https://bonnie970.github.io>

## EDUCATION

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**Master of Engineering, Electrical Engineering**  
*McGill University, Canada*

January 2018 - Present

- Computer vision - Image matting and segmentation
- Award: McGill Engineering Undergraduate Student Masters Award (MEUSMA)
- Cumulative GPA: 3.9/4.0

**Bachelor of Engineering, Honors Electrical Engineering**  
*McGill University, Canada*

September 2013 - December 2017

- Awards: 2014-2015 Douglas H. Macaulay Scholarship, 2015-2016 the Class of '83 Scholarships
- Cumulative GPA: 3.9/4.0

## SKILLS

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<b>Languages</b>	English, Chinese (Mandarin)
<b>Programming Languages</b>	Python, Java, C, Embedded C, Android, Assembly, VHDL
<b>Libraries &amp; Platforms</b>	Tensorflow, Keras, Pandas, Django; Linux, Google Cloud, Unity

## WORK EXPERIENCES

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**Python Developer Intern**  
*Ericsson, Beijing, China*

May 2017 - July 2017

**Technologies:** Python, Django, Vivado

- Award: Excellent Intern Award
- Leading developer of command line interface and real-time monitoring dashboard for FPGA acceleration project.
- Developed various internal automation tools for project management.

**Speech Science Intern**  
*Nuance Communications, Montréal, Canada*

September 2016 – April 2017

**Technologies:** Voice biometrics, Python, Pandas

- Worked on numerous voice biometrics deep learning model tuning.
- Supported several large biometrics clients for system deployment and migration.
- Effectively collaborated with remote staffs. Developed high-quality analysis and testing tools.

## PERSONAL PROJECTS & VOLUNTEER

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**VR Game *FlappyU***

**Technologies:** Unity, C#, SteamVR

- Award: Winner of McHacks 2018; Published on Steam

**Reinforcement Learning Environment *BAH***

**Technologies:** Python, Gym, RL

- Simple public transportation optimization environment to encourage RL research solving real-world problems.

**VP Finance**

- McGill Electrical Engineering Graduate Student Society (EEGSS) January 2018 - Present
- McGill ECSESS RoboElectronics Club January 2015 - April 2017

## ACADEMIC PROJECTS

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- **Applied machine learning:** Top 2 in modified MNIST classification class competition.
- **Reinforcement learning:** Algorithm implementation of Dueling bandits, Dynamic programming, Dyna-Q
- **Speech communication:** Tensorflow speech recognition challenge (short-command classification using CNN)