

# QIPENG WANG

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Harbin, Heilongjiang Province, China  
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## EDUCATION

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### Harbin Institute of Technology, China

*Aug. 2016 - Jun. 2020*

- BEng. in Communication Engineering, GPA: 88.72/100
- GRE: 325 (*Quantitative:169 Verbal:156 Analytical Writing:3.5*)
- TOEFL: 104 (*Reading:27 Listening:27 Speaking:23 Writing:27*)
- Core Courses: *Foundation of Internet of Things, Computer and Communication Networks, Wireless Ad Hoc Networks, Multimedia Communication Networks*

## PUBLICATION

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[1] Zhiming Huang, Yifan Xu, Bingshan Hu, Qipeng Wang, Jianping Pan. Thompson Sampling for Combinatorial Semi-bandits with Sleeping Arms and Long-Term Fairness Constraints. Ready for submission. (<https://arxiv.org/pdf/2005.06725.pdf>)

## RESEARCH EXPERIENCE

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### Department of Computer Science, University of Victoria, Canada

*Jul. 2019 - Oct. 2019*

*Mitacs Globalink Research Internship, Supervisor: Jianping Pan*

- Proposed a Thompson-Sampling based online learning algorithm with fairness guarantee.
- Simulated the regret bound and compared our work with the existing work.
- Co-authored a paper and submitted it to *IJCAI*.

### Communication Research Center, Harbin Institute of Technology, China

*Jun. 2018 - Present*

*Research Internship, Supervisor: Yulong Gao*

- Proposed an online learning based algorithm for dynamic spectrum access in Cognitive Radio Networks.
- Simulated the performance of the algorithm using Matlab.
- Preparing a paper.

## ACADEMIC PROJECTS

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### Modulation Mode Recognition Based on SDR

*Apr. 2019 - May 2019*

*Supervisor: Zhiming Yang*

- Applied BP Neural Network to recognize different modulation modes based on SDR platform.
- Achieved high accuracy(over 95% ) of recognition in different SNR conditions.
- Presented this project in the class.

### AM Transceiver Hardware Platform

*Dec. 2018 - Jan. 2019*

*Supervisor: Yaqin Zhao*

- Led a team of three students and designed the whole framework using Multism.
- Developed the hardware platform and achieved required performance indexes.

### Serial Communication System Based on FPGA

*Jun. 2018 - Jul. 2018*

*Supervisor: Wenchao Yang*

- Developed Baud Rate Generator module, Transmitter module, Receiver module using language Verilog HDL based on FPGA.

- Achieved the two-way serial communication between the FPGA and the PC.

## **Wearable Navigation Glasses for the Blind**

*Aug. 2017 - May 2018*

*Supervisor: Yulong Gao*

- Designed the whole framework including Recognition module, Ultra-sound module and Voice broadcast module.
- Developed the Recognition module using OpenCV and improved the edge detection algorithm.
- Won 2nd Prize in Electronic Innovation Competition.

## **AWARDS & SCHOLARSHIPS**

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<b>CSC(China Scholarship Council) Scholarship for Research Internship</b>	<i>Jun. 2019</i>
<b>HIT Scholarship</b> <i>(for five times)</i>	<i>Mar. 2017 - May. 2019</i>
<b>Travel Grant for Kaist ECE Camp</b>	<i>Sep. 2018</i>
<b>Won 3rd Prize in National Mathematics Competition</b>	<i>Sep. 2017</i>
<b>Won 2nd Prize in Electronic Innovation Competition at HIT</b>	<i>Jul. 2017</i>
<b>Won 1st Prize in Winter Vacation Social Practice</b>	<i>Feb. 2017</i>

## **SKILLS**

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**Software Skills:** C, Matlab, Verilog, Multism, Simulink, Labview, LaTeX

**Languages:** English, Mandarin

## **ACTIVITIES**

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<b>Volunteer in IEEE Pacrim Conference, Victoria</b>	<i>Aug. 2019</i>
<b>Kaist ECE Camp, Korea Advanced Institute of Science and Technology</b>	<i>Sep. 2018</i>
<b>Vice President of Students' Environment Protection Union, HIT</b>	<i>Sep. 2016 - Sep.2017</i>