



YU QIN

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School of Mathematics and Computer Science

Chongqing University of Education, Chongqing 400065, China

EDUCATION

Chongqing University of Education

2014 - 2018

Bachelor of Science in Computer Science Degree

Major Courses: C++ Programming, Discrete Mathematics, Operating Systems, Introduction to Computer Science and Internet Technologies(*lectured in English*), Network Technology(*lectured in English*), Linux Programming(*lectured in English*), Electronic, Master Algorithmic Programming Techniques, RFID Technology, Database Programming, Embedded Systems, Developing IoT Solutions.

GPA: 3.6/4.0

Rank: 1/145

Shanghai International Studies University & Lancaster University

2012 - 2013

Foundation Programmes

Major Courses: Computer Applications, Calculus, Academic Reading & Writing, English Listening & Speaking, Micro Economics, Accounting(*All courses were lectured in English*).

Stage of Foundation: Distinction(81-100%)

RESEARCH EXPERIENCES

National Undergraduate Research&Innovation Program(No.201714388006):

Research on Campus Virtual Roaming and Intelligent Interaction with Convolution Neural Networks

May.2017 - Present

Project Manager & Logistics Coordinator

- Develop and design research protocols and experiments solutions.
- Construct sensor networks to establish intelligent interactive simulation model in virtual reality.
- Designed the algorithms of image processing and speech recognition based on neural networks.

Chongqing Undergraduate Research&Innovation Program(No.201714388015):

Urban micro-farming

May.2017 - Present

Project Fellow

- Constructed sensor platforms capable of measuring depth, salinity, temperature and currents.
- Designed a control system for urban micro-farming based on web service.
- Collected and processed the data of sensor platforms using Python.

National Undergraduate Research&Innovation Program(No.201514953):

Smart Unmanned Parking System based on RFID Technology

2016 - 2017

Project Manager & Logistics Coordinator

- Develop and design research protocols and experiments solutions.
- Conducted RFID and voice function, collected data, processed data.
- Coded about 2000 lines of C++ code to generate a variety of networks, and compute relevant statistics on the networks.

Student Research Program of Chongqing University of Education(NO.XK20160101):

Research and application of Education Robot platform based on Arduino

2016 - 2018

Project Manager & Logistics Coordinator

- Developed platform for K-12 children robot education based on Arduino based on STM32.
- Used Arduino to achieve modular programming function of the robot.
- Wrote technical reports: algorithm research report, experiments report, and application for Patent.

PUBLICATIONS

- [1] **Yu Qin**, Dan Cheng, Zhi Li, Research on Smart Unmanned Parking System based on RFID Technology. Electronics World, 2016(24):180-181.
- [2] Yanjun Liu, **Yu Qin**, Junjian Huang, Jian Zhan, Finite-time synchronization of complex-valued neural networks with mixed delays(in reviewing).
- [3] Junjian Huang, Wei Zhang, Jie Long, Changjiu Pu, Qi Han, **Yu Qin**, Finite-time synchronization of memristor-based 5-D hyperchaotic system(in the cast).
- [4] Yanjun Liu, **Yu Qin**, Junjian Huang, Xinbo Yang, Finite-time synchronization of complex-valued neural networks with multiple time-varying delays and in nite distributed delays(in the cast)

PATENTS & SOFTWARES

- [1] A New Type of Ultrasonic Sensor Casing for Educational Robot, Pat. No.201621154743.5
- [2] Ultrasonic Sensor Connector for Educational Robot with Walking Function, Pat. No.201621151355.1
- [3] Software Copyright of "iPark" automatic parking software based on Qt technology, V1.0.No.005742775

AWARDS & HONORS

- Honorable Winner in ICM(Interdisciplinary Contest in Modeling)
COMAP 2017
- Gold-Prize of China Innovation and Entrepreneurship Competition
the People's Republic of China & Soong Ching Ling Foundation 2016
- Star of Innovation Award(awarded to top 10 of all undergraduate students)
CQUE(Chongqing University of Education) 2016
- Excellence Award of the Internet Plus Students Innovation and Entrepreneurship Competition
Chongqing Municipal Education Commission 2016
- First-Prize of English Speech Contest
CQUE 2016
- First-Prize of the Internet Plus Students Innovation and Entrepreneurship Competition
CQUE 2016
- Second-Prize of Excellent Writing in Academic English
CQUE 2016
- Third-Prize of National English Contest for College Students
College English Teaching and Research Association of China 2015
- Outstanding Student(**Two-time Winner**)
CQUE 2015-2017
- Excellent Course Project Award(**Two-time Winner**)
CQUE 2014-2015
- First-Class Scholarship(**Six-time Winner**)
CQUE 2014-2018

EXTRA-CURRICULAR ACTIVITIES

China Telecom Corporation Limited Chongqing Branch

May.2017 - Present

Web Developer Internship

- Design user interface and algorithm of sweepstakes.
- Coach clients on communications technology related issues by assessing client needs and delivering

The Key Laboratory of Machine Perception at CQUE

2016 - Present

Research Assistant

- Participated in international journals (SCI source magazine) review work.
- Improved the algorithm of chaotic system simulation based on Matlab and Mathematics.
- Established collaborative control model with optimization and application to neural network.

Youkeyinlong Technology Co., Ltd

2016 - 2017

Hardware Engineer Internship

- Created robot chip using CAD.
- Developed the education robot open source platform based on Arduino.
- Responsible for compiling information from business articles.

K-12 Coding Education Workshop at CQUE

2014 - 2016

Instructor and Coordinator

- Organized the K-12 teaching class and lesson plans.
- Trained programming education teachers.

English FM Radio at CQUE

2014 - 2015

Announcer and Leader

- Broadcasted English news and entertainment.

TECHNICAL SKILLS

Programming Skills

Proficiency in C/C++, Matlab and Mathematics, familiar with Python

Design Skills

Proficiency in CAD to design PCB layout, Adobe Illustrator to design user interface for software

Machine Learning

Good at NB/LR/SVM/CRF/Boosting/Neural Networks to design unsupervised learning model

Deep Learning

Familiar with LSTM/RNN/GRU, frequent use of Tensorflow

Operating Systems

Windows, Linux(Red Hat and Ubuntu for embedded chip like STM32)

Databases

MySQL, SPSS, Microsoft SQL

Tools

Z-Sensor-Monitor, SVN, Vim, Wireshark, Keil, Unity3D, Cocosstudio-2dx for HTC Vivo VR and computer games design

ADDITIONAL EXPERIENCES

- Coach for International Youth Robot Competition, the IYRC Committee.

2015

- Leading Dancer for the Opening Ceremony of the Jiangxi Games.

2011
