Hu Wang

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Education

July 2017--- Now, Singapore Management University, Singapore Research Engineer, LARC Lab co-founded by Carnegie Mellon University and Singapore Management University

- Research in LARC Lab (Living Analytics Research Centre) with Professor Steven Hoi.
- Research in Deep Learning area.
- In charge of FoodAl research project (http://foodai.org) and medical images processing.

September 2014 --- June 2017, South China University of Technology, Guangzhou, Guangdong, China

Masters of Software Engineering, Computer Vision & Visual Programming Emphasis

Ranked 4th (52 students).

Fall 2016, **Pittsburg State University**, Pittsburg, Kansas, USA **Visit student**, Computer Technology Emphasis

- Built a remote-controlled car.
- Built a mp3 player using hcs12 dragon board, programmed with assembly language of hcs12 microcontroller.
- Learned project management knowledge, gained computer security experience.
- All selected classes (7 classes) are As, GPA 4.0.

September 2010 --- June 2014, Hunan Agricultural University, Changsha, Hunan, China

Bachelors of Information Engineering

Ranked 2nd (72 students).

Research & Projects

May 2017 to Now

Deep Learning in Food and Medical image processing

- Research on Fine-grained classification and semi-supervised learning.
- In charge of FoodAl research project (http://foodai.org) and raised the original top1 / top5 accuracy of food classification from 70% / 90% to 78% / 94%.
- Medical image processing on chest diseases.

January 2017 to May 2017

Image Matting algorithm research

- Came up with ideas of algorithms to solve natural image matting problem efficiently.
- Published a paper in Proceedings of the 2017 IEEE International Conference on Computational Science and Engineering(ICSE'17)

December 2015 to May 2016

Project Manager & Developer of Dr. Luck EST Visual Programming Platform

- Used C++ architecture, excellent transfer between different platforms.
- Implemented the backend of the platform, over 20000 C++ codes have been written by me.
- The software was in mass production and put into market now.

November 2015

Developer of Know Video Platform

- Implemented with JS+PHP in 24 hours, a chrome add-in, fancy media previews will show up whenever users type the keywords in the search engine (multiple search engine supported).
- Came up with a marvelous business model, a considerably great UGC platform by which users can upload their video clips.

May 2015

Team Leader & Developer of female shoes shopping guide-system on mobile

- Designed the system architecture and coding, including the database, framework and web-crawler programming.
- Implemented the system and test the system based on Java.

December 2014 to January 2015

Team Leader & Developer of Students homework checking system

- Conceptualize and designed the system architecture and coding.
- Used C++ (including Qt framework), over 99% checking accuracy.

June 2014 to September 2014

Masked-Men Detection computer vision research

Created a method to find out masked-men on real time videos.

January 2014 to March 2014

Independent Implementation of ACM Online Judge

- Automatically judged ACMers' submissions, this system can be used in competitions.
- Used C++ (Compile core) and Java (Web, Struts + Hibernate).

March 2013 to April 2013

Independent Implementation of Digital clock based on FPGA

 Programmed based on VHDL of FPGA (Field-Programmable Gate Array).

Publications

- Congbo Ma, Xiaowei Yang and Hu Wang. Randomized Online CP Decomposition (Newly accepted in January 2018).
- Hu Wang, Zhongming Yang and Congbo Ma. A Fast Image Matting Method based on Interval-line Sampling. In: Proceedings of the 2017 IEEE International Conference on Computational Science and

Engineering(ICSE'17), Guangzhou, China, July 21-22, 2017.

 Hu Wang, Jun Ren. Design of digital clock based on FPGA (In Chinese). Electronic Design and Engineering. 2014, (04):127-129.

Patents & Copyrights

- "A Graphical Programming Multithreading Synchronization Method." 1 June 2017. Patent (201710405733.7).
- "A Visual Programming Control and Store System." 30 November 2016. Patent (201611092887.7).
- "Dual Mode Video Masked-men Detection Based on Statistical Characteristics." 20 December 2015. Patent (201510971527.3).
- "Masked-men Detection Based on Color Features." 7 July 2015. Patent (201510451280.2).
- "Intelligent Masked-Men Detection system." 26 September 2014.
 Software copyright (2015SR035707).
- "ACM/ICPC Online Judge." 26 March 2014. Software copyright (2015SR035709).

Internship

June 2016 to August 2016

Senior Java-Programmer internship of Ant Financial Services Group affiliate with Alibaba Corporation, Hangzhou, China

- Built web-crawler software, Java programming.
- Became familiarized with Alipay SOFA architecture.

August 2015 to May 2016

Programmer internship of Dr. Luck Corporation

Awards & Honors

 Hack Shanghai Global Hackathon Microsoft campus Hackathon Contest South China University of Technology Samsung Scholarship Ali Baichuan Hachathon Programming Contest Tencent Internet innovation and startup contest Star Cup English Speech Contest SCUT Graduate Student Debate Contest Hunan Agricultural University ACM Programming Contest The Eleventh Truth Seeking Cup Programming contest Third Prize National Electronic professionals' skills contest Hunan Agricultural University English Speech Contest Hunan Agricultural University English Speech Contest Hunan Agricultural University ACM Programming Contest Third Prize Hunan Agricultural University English Speech Contest Hunan Agricultural University ACM Programming Contest First Prize 	 South China University of Technology Excellent Students Awards IBM Master the Mainframe Global Individual Contest Third Prize 	2016 2015
 South China University of Technology Samsung Scholarship Ali Baichuan Hachathon Programming Contest Tencent Internet innovation and startup contest National top 100 Star Cup English Speech Contest SCUT Graduate Student Debate Contest Hunan Agricultural University ACM Programming Contest The Eleventh Truth Seeking Cup Programming contest The Praise of China Cup calligraphy contest National Electronic professionals' skills contest Hunan Agricultural University English Speech Contest Third Prize Hunan Agricultural University English Speech Contest Third Prize Hunan Agricultural University ACM Programming Contest First Prize Hunan Agricultural University ACM Programming Contest First Prize Hunan Agricultural University ACM Programming Contest 	 Hack Shanghai Global Hackathon Ranked Third 	
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Activities	 Microsoft Research Asia 	Campus Hackathon Conference	2015
	 Microsoft Corporation 	Microsoft Summer Camp	2015
	 SCUT Microsoft Technology Club 	Vice-president	2015
	 Guangzhou Import/Export Commodity 	Fair Interpreter	2015
	Oral English class	Teaching Assistant	2015
	Algorithm & C++ class	Teaching Assistant	2015
	 Qide International Education 	Interpreter	2013
	 Aoji International Education 	Interpreter	2013
	 ACM Programming Innovation Lab 	Team Leader	2011

References

Norman H. Philipp, P.E. CM-BIM Assistant Professor Pittsburg State University 1701 South Broadway KTC W226 Pittsburg, KS 66762 620-235-6555

Ronny Galloway, P.E. Assistant Professor and Coordinator MET Program Pittsburg State University 1701 South Broadway KTC W224a Pittsburg, KS 66762 620-778-2880

Choi, Dr. Jae. Assistant Professor Pittsburg State University 1701 South Broadway KTC W224a Pittsburg, KS 66762 620-235-4561

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