HONG LI

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EDUCATION

University of Science and Technology of China, Hefei, China

SEP 2014 - present

Master of Engineering Degree, Software Engineering

Area: Systems and Networking, Human-Computer Interaction

Advisor: Prof. Liusheng Huang

Overall GPA: 85/100

Hohai University, Nanjing, China

SEP 2010 - JUN 2014

Bachelor of Engineering Degree, Computer Science and Technology

Advisor: Prof. Zhenming Chen

Overall GPA: 86/100

RESEARCH

Finger-grained Gesture Recognition Using WiFi Signals Project Leader

JAN 2016 - present

Suzhou, China

- · Extracting channel state information from physical layer.
- · Applying the extracted data to identify finger-grained gestures.
- · Attempting to realize text input using recognized finger gestures. Supervised by Prof. Liusheng Huang and A/Prof. Wei Yang

Human Activity Recognition under Wireless Environment Project Leader

SEP 2015 - DEC 2015

Suzhou, China

- · Proposed a novel scheme using WiFi signals to sense human motions.
- · Extracted both frequency domain and time domain features to identify human activities.
- · Recognized 7 daily human activities with an average accuracy over 85%. Supervised by Prof. Liusheng Huang and A/Prof. Wei Yang

$\begin{tabular}{ll} {\bf Motion \ Recognition \ Technology \ Research \ in \ Indoor \ Environment} \\ {\it Project \ Leader} \end{tabular}$

SEP 2014 - AUG 2015 Hefei, China

· Investigated different schemes to identify indoor human movement.

- · Built experiment platform to capture wireless signals.
- · Tested the potential of recognizing human motions using wireless signals. Supervised by Prof. Liusheng Huang and A/Prof. Wei Yang

Research on Mathematical Modeling Methods

SEP 2011 - MAY 2013

Nanjing, China

Research Assistant

- · Applied various models and methods to solve specific problems including market price prediction, criminal pattern analysis and cost computation of city bus network.
- · Joined research activities involve discussion, investigations in groups, presentations by students, and peer evaluations of each other's writings.

Supervised by Prof. Zhenming Chen and Dr. Jianyong Zhang

PUBLICATIONS

- [C.1] **Hong Li**, Wei Yang, Jianxin Wang, Yang Xu, Liusheng Huang. WiFinger: Talk to Your Smart Devices with Finger-grained Gesture. The 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2016), pp. 250-261, 2016. (Best Paper Award, Top 1%)
- [C.2] **Hong Li**, Wei Yang, Yang Xu, Jianxin Wang, Liusheng Huang. WiCare: A Synthesized Health-care Service System Based on WiFi Signals. The 14th International Conference on Service Oriented Computing (short paper, ICSOC 2016), pp. 557-565, 2016.
- [C.3] **Hong Li**, Wei Yang, Yang Xu, Jianxin Wang, Liusheng Huang. A Real Time Wireless Interactive Multimedia System. The 18th Asia-Pacific Web Conference (APWeb 2016), pp. 53-65, 2016.

PATENTS

[P.1] Wei Yang, **Hong Li**, Liusheng Huang, Jianxin Wang, Yang Xu. A Gesture Control Human-Computer Interaction System Based on WiFi Signals. CHN Patent: 201610198331X.

HONORS AND AWARDS

2016	Best Paper Award at the ACM International Conference on Ubiquitous Computing
2016	(Top 1%) 1 st Prize of Excellent Internships and Practice, USTC
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2016	Suzhou Industrial Park Scholarship, USTC
2016	1^{st} Class Academic Excellence Scholarship for Graduate Students, USTC (Top 3%)
2014, 2015	2 nd Class Academic Excellence Scholarship for Graduate Students, USTC (Top 5%)
2013	3^{rd} Prize of Software Design Competition in Jiangsu Province
2012	Outstanding Student in Talented Program, HHU (Top 1%)
2012	Hohai Scholarship for Scientific and Technological Innovation (Top 5%)
2012	Hydraulic Scholarship for Undergraduate Student, HHU
2012	2^{nd} Prize of Certificate Authority Cup Mathematical Contest in Modeling
2011	3^{rd} Prize of Mathematical Contest in Modeling (MCM)
2011	3^{rd} Prize of The Electrician Mathematical Contest in Modeling
2011, 2013	2^{nd} Prize of National College Students English Competition
2011	Outstanding Volunteer of Shenzhen 26th Summer Universiade, Shenzhen, China
2010-2014	Hohai Scholarship for Outstanding Academic, HHU (consecutive 4 years, Top 3%)

STANDARDIZED TESTS

SEP, 2016	TOEFL (iBT) Grade: 97 (Reading 29 Listening 21 Speaking 23 Writing 24)
JUL, 2016	GRE (revised) Grade: Verbal 153, Quantative 165, Analytical Writing 4.0

TECHNICAL STRENGTHS

Operating Systems	Windows, Linux	, Android,	Windows Mobile
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Computer Languages C++, Java, C# Scientific Application Matlab, Latex

ACTIVITIES

2015 - present	Leader of Prof. Liusheng Huang's WiX Team, USTC
2014-2015	Vice-president of Graduate Student Union, USTC
2011	RPIS Engineer in Shenzhen 26th Summer Universiade, Shenzhen, China
2010-2014	Class commissary in charge of Academic, HHU
2010-2014	Member of the Talented Program, HHU
2010 - 2014	Member of the Youth Volunteer Service Team, HHU