

Qiang Li

Phone: 571-357-4264

Email: warren.q.li@gmail.com

OBJECTIVE

- Positions in Software Development, Mobile and Embedded Systems, and Wireless Networking

EDUCATION

- Ph.D. of Computer Science — University of Virginia — Expected: Aug 2012 — GPA: 3.64/4.0
- Master of Engineering — Tsinghua University, Beijing, China — 2007 — GPA: 86.1/100
- Bachelor of Computer Science — Tsinghua University, Beijing, China — 2004 — GPA: 81.8/100

EXPERIENCE

- **Research Assistant**, University of Virginia, Aug. 2007 – present
Topic: **Body Area Networks, Wireless Networks**
Advisor: Prof. John A. Stankovic
Work: Working on activity recognition using body area networks, and studying radio characteristics of body area networks.
- **Intern**, Amazon, Seattle, June. 2011 - Sep. 2011
Topic: **Customer Metrics Mining, Amazon RDS (Relational Database Service)**
Advisor: Mike Oh
Work: Designed and implemented a customer metrics mining. Work involved distributed systems, database programming, and multiple RDS components.
- **Research Assistant**, Tsinghua University, China, Mar. 2007 - July. 2007
Topic: **Multimedia Home Gateway**
Advisor: Prof. Yu-Zhuo Zhong
Work: Set up an embedded Linux system for a Set-Top Box platform and devised new methods for digital rights management. Work involved Linux system porting, video coding, and image watermarking.
- **Intern**, IBM China Research Lab, Beijing, China, Apr. 2005 - Sep. 2005
Topic: **Set-Top Box system, Video-on-Demand Server**
Advisor: Dr. Yu Yuan
Work: Worked on a Set-Top Box system that had multiple functions including IPTV, DVB and VoIP. Work involved video servers such as Darwin Steaming Server and multimedia steaming protocols such as RTP, RTCP, and RTSP.
- **Senior Project**, Tsinghua University, China, Mar. 2004 - June. 2004
Topic: **Passive Network Protocol Testing**
Advisor: Prof. Xia Yin
Work: Proposed a novel method to test implementations of network protocols. The key idea is to inject typical faults into running protocols and monitor their reactions.

PUBLICATIONS

- **Qiang Li**, and John A. Stankovic, “Grammar-Based, Posture- and Context-Cognitive Detection for Falls with Different Activity Levels”, in *Proceedings of the 2nd Conference on Wireless Health*, October 2011, San Diego, CA, USA.
- Gang Zhou, **Qiang Li**, Jingyuan Li, Yafeng Wu, Shan Lin, Jian Lu, Chieh-Yih Wan, Mark D. Yarvis, and John A. Stankovic, “Adaptive and Radio-Agnostic QoS for Body Sensor Networks” in *ACM Transactions on Embedded Computing Systems*, Volume 10, Issue 4, November 2011.
- **Qiang Li**, John A. Stankovic, Mark Hanson, Adam Barth, John Lach, Gang Zhou, “Accurate, Fast Fall Detection Using Gyroscopes and Accelerometer-Derived Posture Information” in *Proceedings of the 6th International Workshop on Body Sensor Networks*, June 2009, Berkeley, CA, USA.
- **Qiang Li**, Gang Zhou, John A. Stankovic, “Poster: Accurate, Fast Fall Detection Using Posture and Context Information” in *Proceedings of the 6th ACM Conference on Embedded Networked Sensor Systems*, November 2008, Raleigh, NC, USA.
- **Qiang Li**, Chun Yuan, Yu-Zhuo Zhong, “A Novel SVD-Based Watermarking Scheme Using Human Visual Model,” in *Proceedings of the 2nd International Symposium on Computational Intelligence and Industrial Applications*, November 2006, Guangzhou, China.
- **Qiang Li**, Chun Yuan, Yu-Zhuo Zhong, “Adaptive DWT-SVD Domain Image Watermarking Using Human Visual Model,” in *Proceedings of the 9th International Conference on Advanced Communication Technology*, February 2007, Phoenix Park, Korea.
- Kun Zhang, Chun Yuan, **Qiang Li**, Yu-Zhuo Zhong, “Fast Block Type Decision Method for H.264/AVC Intra Prediction,” in *Proceedings of the 9th International Conference on Advanced Communication Technology*, February 2007, Phoenix Park, Korea.

COMPUTER SKILLS

- Languages: C, C++, Java, Python
- Operating Systems: Linux, Windows, Windows Mobile
- Tools: Eclipse, Microsoft Visual Studio, Matlab, Emacs, Vim, LaTeX, etc.

HONORS & AWARDS

Foxconn Scholarship by Tsinghua University (2005)

Excellent Student Leader of Computer Science Student Union, Tsinghua University (2003)

HuaWen Scholarship by Tsinghua University (2002)

Outstanding Freshmen Scholarship by Tsinghua University (2000)

First Prize in National Physics Competition (1999)