

Hossein Falaki

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RESEARCH INTERESTS

I am interested in Computer Networks, Operating Systems, and Wireless and Mobile Systems.

EDUCATION

Ph.D. Computer Science

University of California, Los Angeles, USA
GPA: 4.0

Present

MMath. Computer Science

University of Waterloo, Canada
GPA: 4.0

2008

BS. Computer Engineering

Sharif University of Technology, Iran
GPA: 3.53

2006

Diploma, Mathematics and Physics

National Organization for Exceptional Talents, Iran
GPA: 4.0

2002

RESEARCH EXPERIENCE

Research Assistant

University of California, Los Angeles, USA
I am a research assistant of Prof. Deborah Estrin on the Participatory Sensing project.

Center for Embedded Networked Sensing
2008-present

Research Intern

Cisco Systems, San Jose, USA
I worked with Flavio Bonomi on vehicular networking.

Advanced Architecture and Research Group
Summer 2010

Research Intern

Microsoft Research, Redmond, USA
I worked with Ratul Mahajan to understand how users use their smartphones.

Networking Research Group
Summer 2009

Research Assistant

University of Waterloo, Waterloo, Canada
I was a research assistant of Prof. Keshav on the KioskNet project.

Tetherless Computing Lab
2006-2008

Research Assistant

Sharif University of Technology, Tehran, Iran
I was a research assistant of Prof. Rabiee on dynamic proxy architectures for video streaming based on overlay networks.

Digital Media Lab
2005-2006

PUBLICATIONS

- *Hossein Falaki*, Ratul Mahajan, and Deborah Estrin, “**SystemSens: A Tool for Monitoring Usage in Smartphone Research Deployments**,” *MobiArch*, June 2011.
- *Hossein Falaki*, Dimitrios Lymberopoulos, Ratul Mahajan, Srikanth Kandula, and Deborah Estrin, “**First Look at Traffic on Smartphones**,” *ACM IMC*, November 2010.
- *Hossein Falaki*, Ratul Mahajan, Srikanth Kandula, Dimitrios Lymberopoulos, Ramesh Govindan, and Deborah Estrin, “**Diversity in Smartphone Usage**,” *ACM/USENIX MobiSys*, June 2010.
- S. Guo, M. Derakhshani, *M.H. Falaki*, U. Ismail, R. Luk, E.A. Oliver, S. Ur Rahman, A. Seth, M.A.

- Zaharia, and S. Keshav, “**Design and Implementation of the KioskNet System,**” *Computer Networks*, August 2010.
- *Hossein Falaki*, Ramesh Govindan, and Deborah Estrin, “**Smart Screen Management on Mobile Phones,**” *Center for Embedded Network Sensing Technical Report*, June 2009.
 - *Hossein Falaki*, and Srinivasan Keshav, “**Trace-based Analysis of Wi-Fi Scanning Strategies,**” *ACM MCCR*, January 2009.
 - *Hossein Falaki*, “**The Wi-Fi Roaming Game,**” *WINE*, December 2007.
 - S. Guo, *M.H. Falaki*, E.A. Oliver, S. Ur Rahman, A. Seth, M.A. Zaharia, U. Ismail, and S. Keshav, “**Design and Implementation of the KioskNet System (Extended Version),**” *University of Waterloo Technical Report*, November 2007.
 - S. Guo, *M.H. Falaki*, E.A. Oliver, S. Ur Rahman, A. Seth, M.A. Zaharia, and S. Keshav, “**Very Low-Cost Internet Access Using KioskNet,**” *ACM CCR*, October 2007.
 - Earl Oliver and *Hossein Falaki*, “**Performance Evaluation and Analysis of Delay Tolerant Networking,**” *ACM MobiEval*, June 2007.
 - Alireza Vahdatpour, Ahmadreza Tavakoli and *Hossein Falaki*, “**Hierarchical Graph: A New Cost Effective Architecture for Network on Chip,**” *IFIP EUC*, December 2005.

GRADUATE COURSEWORK

- **University of Waterloo**
Advanced Algorithms / Game-Theoretic Methods in Computer Science / Topics in Internet Services and Performance / Hot Topics in Computer and Communications Security / System Performance Evaluation (audit)
- **UCLA, Statistics**
Applied Probability / Theoretical Statistics / Advanced Modeling and Inference
- **UCLA, Computer Science**
Approximation Algorithms / Online Algorithms / Internet Architecture and Protocols / Advanced Topics in Internet Research / Queuing Systems Theory / Embedded Systems

TEACHING EXPERIENCE

- Teaching Assistant**
University of Waterloo, Canada 2006-2007
Computer Networks, Computer Organization & Design, Introduction to Programming Principles
- Teaching Assistant**
Sharif University of Technology, Iran 2005-2006
Computer Networks, Operating Systems
- Instructor**
Sharif University Industrial Training, Iran 2005
FreeBSD System Administration, Linux System Administration
- Instructor**
Telecommunication Company of Tehran, Iran Winter 2005
FreeBSD System Administration

PROFESSIONAL EXPERIENCE

- System Administrator** Department of Computer Engineering
Sharif University of Technology, Tehran, Iran 2003-2005
- Consultant** Information System standardization team
Municipality IS Department, Tehran, Iran 2004

AWARDS AND HONORS

- International Master Students Award, University of Waterloo, 2006 and 2007.
- Qualified for the dual-degree program of Sharif University of Technology, 2003.
- Ranked 5th in the national entrance exam of Azad University, 2002.
- Ranked 142nd among more than 400,000 participants in the entrance exam of Iran national universities, 2002.
- Graduated From the Iranian National Organization for Development of Exceptional Talents, 2002.

TECHNICAL SKILLS

- **Programming Languages**
Proficient in Java, C and POSIX environments, and C#
Familiar with C++, Python, Symbian Python, Perl, Bash, Tcl, and PHP
- **Mobile Platforms**
Proficient in Android and Windows Mobile
Familiar with Symbian, and iPhone
- **Operating Systems**
Proficient in different UNIX environments especially BSD operating systems and GNU/Linux
Familiar with Mac OS X, Cisco IOS, and MS Windows
- **Simulation Environments**
Proficient in R, ns-2, and OMNet++
Familiar with MATLAB

EXTRACURRICULAR ACTIVITIES

- Student organizer of NSF Center for Embedded Networked Sensing research seminars, University of California, Los Angeles, 2008-2009
- Graduate students' representative in the Graduate Recruitment Committee, School of Computer Science, University of Waterloo, 2007
- Elected member of the Students Scientific Chapters, Computer Engineering Department, Sharif University of Technology, 2005

REFERENCES

Deborah Estrin

University of California, Los Angeles
Los Angeles, CA, USA
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S. Keshav

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