

# Hossein Falaki

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## SUMMARY

I am an experienced software engineer and data scientist looking for new technical challenges at the intersection of computer science and statistics.

## EXPERIENCE

**Software Engineer** Databricks Inc.  
San Francisco, CA *2013-present*

I am one of the first software engineers at Databricks. I lead the end-to-end development of several product and open source features. Currently, I am responsible for R experience on the Databricks platform.

**Senior Data Scientist** Apple Inc.  
Cupertino, CA *2012-2013*

I worked on modeling and improving accuracy and performance of Siri. My job required collaboration and data-driven communication with several other teams.

**Research Assistant** UCLA  
Los Angeles, CA *2008-2012*

I worked with Prof. Deborah Estrin on mobile sensing and mobile health projects at the Center for Embedded Networked Sensing of UCLA.

**Research Intern** Cisco Systems  
San Jose, CA *Summer 2010*

I worked on vehicular mobile networking at Advanced Architecture and Research Group .

**Research Intern** Microsoft  
Redmond, WA *Summer 2009*

I worked at Microsoft Research to understand how users interact with their smartphones.

**Research Assistant** University of Waterloo  
Waterloo, Ontario, Canada *2006-2008*

I was a research assistant of Prof. S. Keshav on the KioskNet project.

## EDUCATION

**Ph.D. Computer Science**  
University of California, Los Angeles, CA 2012

**MMath. Computer Science**  
University of Waterloo, Ontario, Canada 2008

**BS. Computer Engineering**  
Sharif University of Technology, Iran 2006

**Diploma, Mathematics and Physics**  
National Organization for Exceptional Talents, Iran 2002

## GRADUATE COURSEWORK

- **University of Waterloo:** Advanced Algorithms, Game-Theoretic Methods, Internet Services and Performance, Computer and Communications Security, System Performance Evaluation
- **UCLA, Statistics:** Applied Probability, Theoretical Statistics, Advanced Modeling and Inference,

Regression Analysis

- **UCLA, Computer Science:** Approximation Algorithms, Online Algorithms, Internet Architecture and Protocols, Advanced Topics in Internet Research, Queueing Systems Theory, Embedded Systems

TECHNICAL SKILLS

- **Programming Languages:** Scala, Java, R, Python
- **Machine Learning & Statistical Analysis:** Linear Modeling, Exploratory Data Analysis, Statistical Data Visualization
- **Performance Engineering:** Distributed Systems, JVM-based Applications, Service-oriented Architecture, Web Applications

PUBLICATIONS

Full list of citations are available on my Google Scholars page.

- Shivaram Venkataraman, Zongheng Yang, Davies Liu, Eric Liang, *Hossein Falaki*, Xiangrui Meng, Reynold Xin, Ali Ghodsi, Michael Franklin, Ion Stoica, Matei Zaharia, “**SparkR: Scaling R Programs with Spark**,” *International Conference on Management of Data*, 2016
- *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.