

# Omid Mashayekhi

Address: Gates 284, Stanford Univ.  
Stanford, CA 94305

E-Mail: [omidm at stanford dot edu](mailto:omidm@stanford.edu)  
Cell Phone: +1 (650) 644-9523  
Website: [www.stanford.edu/~omidm](http://www.stanford.edu/~omidm)

## Education

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### Stanford University (expected graduation: June 2017)

Stanford, CA

Ph.D. in Electrical Engineering, Cloud Computing

Winter 2013 - Present

Ph.D. minor in Compute Science, Systems Track

Winter 2013 - Present

M.Sc. in Electrical Engineering, Networking Systems

Fall 2011 - Spring 2013

### Sharif University of Technology

Tehran, Iran

B.Sc. in Electrical Engineering, Communication Systems

Fall 2007 - Spring 2011

## Experience

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### Internship at bebop Inc.

Los Altos, CA

Back-end engineer working on developing a low latency data store.

Summer 2015

### RA at Stanford Information Networks Group (SING)

Stanford University

Nimbus: cloud computing framework for low latency data analytics and HPC applications.

(for more information visit: [nimbus.stanford.edu](http://nimbus.stanford.edu))

Janus: centralized MAC protocol for full duplex radio.

### Internship at Cisco Systems

San Jose, CA

Software engineer at Wireless Networking Business Unit (WNBU).

Summer 2012

### Teaching Experience

Stanford University

Course Assistant in CS344C, Cloud Simulation Systems.

Spring 2013

### RA at Advanced Communications Research Institute (ACRI)

Sharif University

Research in power estimation and coding techniques for CDMA systems

Spring 2009 - Summer 2011

## Projects

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### Packet Classification in Presence of Wildcard Expressions

Stanford University

Providing optimized and novel techniques as a project in Packet Switch Architecture course.

Spring 2012

### Designing OpenFlow Controller for DCell

Stanford University

Simulating DCell topology and routing for data centers using Mininet and OpenFlow controller.

Spring 2012

## Patents

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- **O. Mashayekhi**, and F. Marvasti, "Uniquely Decodable Codes and Decoder for Overloaded Synchronous CDMA Systems", U.S. patent application no. 13,082,084, April 7/2011.

## Publications

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- J. Y. Kim, **O. Mashayekhi**, H. Qu, M. Kazandjieva, and P. Levis, "Janus: A Novel MAC Protocol for Full Duplex Radio", Stanford CSTR 2013-02, 2013.
- **O. Mashayekhi**, and F. Marvasti, "Uniquely Decodable Codes with Fast Decoder for Overloaded Synchronous CDMA Systems". *IEEE Transactions on Communication*, vol. 60, no. 11, pp. 3145-3149, November 2012.

## Honors and Awards

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- Recipient of 2-year **Stanford Graduate Fellowship** (Cisco Systems Fellow) 2013-2015
- **Ranked 15<sup>th</sup>** (/135) in the EE Qualifying Examination, Stanford University. Winter 2013
- **Ranked 2<sup>nd</sup>** in the EE Depart., Comm. branch, Sharif University of Technology. Class 2007-2011
- **Second Winner** of the "Bests Undergraduate Thesis Award", Sharif University of Technology. 2011
- **Bronze** medalist of Iran National Mathematics Olympiad. 2006
- **Ranked 46<sup>th</sup>** in university entrance exam among more than 300,000 students. 2007

- Member of the "Iranian National Elite Foundation".

2007-2011

## Computer Skills

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**Programming Languages:** C, C++, Java, Python, JavaScript, PHP, Ruby, Assembly, VHDL, CUPL.

**Simulation Softwares:** Mininet, MATLAB, MATHCAD, Simulink, ORCAD, PSpice, Quartus II, Protel, Proteus.

## Extracurricular Activities

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Social Ballroom Dancing, Swimming, Playing Tennis, Travelling, Going to Movies.