

## Masood Delfarah

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Perception and Neurodynamics Lab  
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### RESEARCH INTERESTS

Speech Separation  
Deep Learning  
Statistical Machine Learning

Speech Dereverberation  
Robust Speaker Recognition

### EDUCATION

**Department of Computer Science and Eng., The Ohio State University**  
**Ph.D. in Computer Eng.** Sep. 2013 – Present  
**Supervisor:** Prof. DeLiang Wang

**School of Electrical and Computer Engineering, University of Tehran, Iran**  
**B.Sc. in Computer Eng. (Major: Software Eng.)** Sep. 2008 – Aug. 2013  
**GPA:** 16.57/20.00 (top 10%).

### PUBLICATIONS *Journal papers:*

- Eric W. Healy, **Masood Delfarah**, Jordan L. Vasko, Brittney L. Carter, and DeLiang Wang, “An algorithm to increase intelligibility for hearing-impaired listeners in the presence of a competing talker.” *Journal of the Acoustical Society of America*, Accepted on 14 May 2017.
- **Masood Delfarah** and DeLiang Wang, “Features for masking-based monaural speech separation in reverberant conditions.” *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 25, pp. 1085-1094 , 2017.
- Maryam S. Mirian , **Masood Delfarah** , and Behzad Moshiri , “Proposing a Unified Knowledge and Experience-based System using Information Fusion Approach to Facilitate the Disaster Management Process” *Disaster Management Knowledge Quarterly*, vol. 2, pp 215-227 , 2012.

### *Conference papers:*

- Eric W. Healy, **Masood Delfarah**, Jordan L. Vasko, and Brittney L. Carter, and DeLiang Wang, “Can a trained deep neural network be implemented into hearing technology?” *Acoustics 17 Boston*, 2017.
- Eric W. Healy, **Masood Delfarah**, Jordan L. Vasko, Brittney L. Carter, and DeLiang Wang, “An algorithm to increase intelligibility for hearing-impaired listeners in the presence of a competing talker” *Acoustics 17 Boston*, 2017.
- **Masood Delfarah** and DeLiang Wang, “A feature study for masking-based reverberant speech separation.” *Proceedings of INTERSPEECH-17*, pp. 555-559, 2016.

### SELECT RESEARCH PROJECTS

One current research  
Two recent projects  
Two recent projects  
Two older projects  
Two older projects  
BsC thesis

- Proposing a knowledge-base for disaster management

- Analyzed Persian Blogosphere to Obtain Social Network of Iranian Politicians, Supervisor: Dr. Asadpour Winter 2012 Frequency in which politicians names co-occur in the social network found to have relationship with how close those two are. We obtained network of politicians with graph clustering using *Gephi*. Supervisor: Prof. Masoud Asadpour Fall 2012 - Spring 2013.

## HONORS

- Granted acceleration in the PhD qualification exam at Computer Science and Engineering department at The Ohio State University Summer 2014
- Scholarship from OSU
- Titled exceptional talented student at the university of Tehran in 2nd, 5th, and 8th semester in BSc. 2008-2013
- Ranked 729 among 400,000+ applicants applicants in the nationwide University Entrance Exam for Undergraduate students. Summer 2008.

## SELECT TEACHING EXPERIENCE

- Held Lab sessions and Graded Homework, and exams for 160 students, CSE 2111: Modeling and Problem Solving with Spreadsheets and Databases, osu/cse Spring 2014
- Graded Homework, CSE 2321: Foundations I: Discrete Structures, osu/cse Fall 2013
- designed and grade homework for Design and Analysis of Algorithms, UT, ECE, Spring 2012
- Graded homework for Discrete Mathematics Course, UT, ECE, Spring 2012
- Head TA and homework organizer, held Prolog tutorial sessions, and designed programming assignments, UT, ECE, Fall 2011.

## COMPUTER SKILLS

**Proficient in C/C++**  
 Experienced in MATLAB, Python, and Java  
 Familiar with C#, PHP, JavaScript, HTML, and SQL  
 Other skills: Bash, git, and L<sup>A</sup>T<sub>E</sub>X