

Mahsa Sadat Elyasi Langarani (Mahsa Elyasi)

Center for Spoken Language Understanding
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EDUCATION

Doctor of Philosophy, Computer Science and Engineering
Oregon Health and Science University, Portland, OR, expected 2018. (**GPA: 3.80**)

Master of Science, Computer Engineering, Artificial Intelligence
Sharif University of Technology, Tehran, IRAN, September 2012. (**GPA: 3.41**)

Bachelor of Science, Computer Engineering, Software Engineering
Nabi Akram College University, Tabriz, IRAN, September 2010. (**GPA: 3.83, Rank number one**)

POSITIONS

Graduate Research Assistant Fall 2012-Present
CSLU, Oregon Health and Science University, Portland, OR, USA.

- I implemented a new pitch model to automatically decompose a pitch contour into its component curves
- I worked on classifying patient with dysarthria using only prosodic features (pitch)
- I worked on prosody modeling (pitch) in TTS and TTS adaptation
- I worked on prosodic phrase boundary detection using prosodic (pitch and duration) features
- I am working on speaker group classifier, which only uses prosodic features.
- I am studying/experimenting pitch analysis/synthesis using deep learning techniques

Research Scientist 2016-2017
ObEN Inc, 130 West Union Street, Pasadena, California, 91103.

- I worked on prosody modeling and its application on TTS (and TTS adaptation) for English and Chinese(Mandarin).

Summer Intern Oct 2015-Jan 2016
Sensory Inc, Portland, OR, USA.

- Implementing frequency-domain PSOLA.
- Implementing a codebook-based Voice Conversion system

Graduate Research Assistant Fall 2010-2012
SPL, Sharif University of Technology, Tehran, Iran.

- I worked on speech enhancement.

REVIEWER

WIML 2017
Interspeech 2017
Interspeech 2016

COMPUTER SKILLS	<p>Languages & Software: C, C++, Python, R, MATLAB, Octave, LaTeX, LyX</p> <p>Operating Systems: OS X, Linux, Windows.</p> <p>ToolKits: TensorFlow, Praat, TextGrid, XML, Festival, HTS.</p>	
PUBLICATIONS	<p>M.S. Elyasi Langarani, J. van Santen, Prosody based dialect classification using NMF and a sparsity criterion, ICASSP, 2018 (Submitted).</p> <p>M.S. Elyasi Langarani, J. van Santen, Recurrent Convolutional Neural Network for Classification of Speaker Groups based on Prosodic Information, 12th Women in Machine Learning Workshop (WiML), 2017 (Accepted).</p> <p>M.S. Elyasi Langarani, J. van Santen, Automatic, model-based detection of pause-less phrase boundaries from fundamental frequency and duration features, 9th ISCA Speech Synthesis Workshop, 2016.</p> <p>M.S. Elyasi Langarani, J. van Santen, Foot-based Intonation for Text-to-Speech Synthesis using Neural Networks, Speech Prosody 2016.</p> <p>M.S. Elyasi Langarani, J. van Santen, Speaker Intonation Adaptation for Transforming Text-To-Speech Synthesis Speaker Identity, ASRU 2015.</p> <p>M.S. Elyasi Langarani, J. van Santen, SH Mohammadi, A Kain, Data-driven Foot-based Intonation Generator for Text-to-Speech Synthesis, Interspeech 2015.</p> <p>M.S. Elyasi Langarani, J. van Santen, Modeling fundamental frequency dynamics in hypokinetic dysarthria, SLT 2014.</p> <p>M.S. Elyasi Langarani, E. Klabbers, J. van Santen, A Novel Pitch Decomposition method for the Generalized Linear Alignment Model, ICASSP 2014.</p> <p>M.S. Elyasi Langarani, H. Veisi, H. Sameti: The effect of phase information in speech enhancement and speech recognition. ISSPA 2012.</p> <p>S.H. Mohammadi, H. Sameti, M.S. Elyasi Langarani, A. Tavanaei, KNNDIST: A Nonparametric distance measure for speaker segmentation, Interspeech 2012.</p>	
AWARD	<p>Top student in bachelor of Science class (GPA: 3.83)</p> <p>Nominated by OHSU for a HHMI fellowship 2015</p>	
LANGUAGE	<p>Persian: Native, Azerbaijani: Native, English: Professional, Turkish: Fluent</p>	
RELEVANT COURSEWORK	<p>Natural Language Processing:</p> <p>Speech Signal Processing:</p> <p>Machine Learning:</p> <p>Structure of Spoken Language:</p> <p>Advanced Topics in Statistics:</p> <p>Advanced Topics in Information Retrieval:</p> <p>Advanced Digital Signal Processing:</p> <p>Neural Networks and Fuzzy system:</p> <p>Pattern Recognition:</p> <p>Stochastic Processing:</p> <p>Digital Signal Processing:</p> <p>Speech Recognition:</p> <p>Machine Learning:</p> <p>Artificial Intelligence Planning:</p> <p>Artificial Intelligence:</p>	<p>Winter 2014</p> <p>Fall 2013</p> <p>Winter 2013</p> <p>Spring 2013</p> <p>Spring 2013</p> <p>Fall 2012</p> <p>Spring 2011</p> <p>Spring 2011</p> <p>Fall 2011</p> <p>Fall 2011</p> <p>Spring 2010</p> <p>Spring 2010</p> <p>Fall 2010</p> <p>Fall 2010</p> <p>Fall 2008</p>
REFERENCES	<p>Jan van Santen, Professor, Center for Spoken Language Understanding, Oregon Health and Science University, vansantj@ohsu.edu .</p> <p>Alexander Kain, Associate Professor, Center for Spoken Language Understanding, Oregon Health and Science University, kaina@ohsu.edu .</p>	