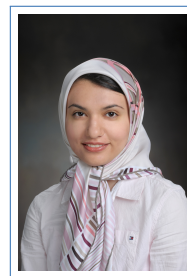


Marzieh Razavi

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Education

- Mar. 2013 – **PhD**, *École Polytechnique Fédérale de Lausanne*, Lausanne, Switzerland, Electrical Engineering.
August 2017 Supervised by Professor Hervé Boudlard and Dr. Mathew Magimai.-Doss
- Sep. 2010 – **M.Sc.**, *Simon Fraser University*, Vancouver, Canada, *Computing Science*.
Aug. 2012 Supervised by Professor Anoop Sarkar
Overall GPA: 3.6/4
- Sep. 2005 – **B.Sc.**, *Sharif University of Technology*, Tehran, Iran, *Computer Engineering*.
Sep. 2009 Overall GPA: 17.22/20

Selected Professional Experience

- Aug. 2017 – **Post-doctoral Researcher**, *Idiap Research Institute*, Martigny, Switzerland.
Present
 - Working on a sign language assessment project with the aim of developing an automatic sign language recognition and assessment system for Swiss German sign language learners.
 - Co-supervising a PhD student
 - Technologies: Python, HTK toolkit, Tensorflow, Keras.
- Mar. 2013 – **Doctoral Researcher**, *Idiap Research Institute*, Martigny, Switzerland.
Jun. 2017
 - Worked on acoustic data-driven grapheme-to-phoneme conversion, pronunciation lexicon development using automatically derived units, and under-resourced language speech recognition.
 - Technologies: Python, HTK toolkit, Quicknet, Linux Shell scripting.
- Sep. 2010 – **Research Assistant**, *Natural Language Lab - Simon Fraser University*, Vancouver, Canada.
Dec. 2012
 - Worked on ensembling diverse clustering-based dependency parsers in MSTParser framework.
 - Applied domain-adaptation techniques to improve parsing of radiology reports.
 - Technologies: Java, Python, Linux Shell scripting.
- Sep. 2010 – **Teaching Assistant**, *Simon Fraser University*, Vancouver, Canada.
Jun. 2012
 - Computer architecture course.
- Mar. 2009 – **R&D Engineer**, *ASR Gooyesh Pardaz Ltd.*, Tehran, Iran.
Jan. 2010
 - Designed a robust natural language understanding component for a flight information system.

Selected Skills

Programming languages Java, Python, C++, R, SQL

Operating Systems Linux, Mac OS, MS Windows

Maching Learning & AI Tensorflow, Keras

Human Language Technologies Quicknet, HTK, Kaldi

Languages

Persian Native

French Elementary proficiency

English Full professional proficiency

Arabic Elementary proficiency

Selected Publications

- May 2018 SMILE Swiss German Sign Language Dataset, Sarah Ebling, Necati Cihan Camgoz, Penny Boyes Braem, Katja Tissi, Sandra Sidler-Miserez, Stephanie Stoll, Simon Hadfield, Tobias Haug, Richard Bowden, Sandrine Tornay, *Marzieh Razavi* and Mathew Magimai.-Doss, in **LREC**, Miyazaki, Japan.
- Feb. 2018 Towards Weakly Supervised Acoustic Subword Unit Discovery and Lexicon Development using Hidden Markov Models, *Marzieh Razavi*; Ramya Rasipuram and Mathew Magimai.-Doss, in **Speech Communication**.
- Feb. 2017 A Posterior-Based Multi-Stream Formulation for G2P Conversion, *Marzieh Razavi* and Mathew Magimai.-Doss, in **Signal Processing Letters**.
- Sep. 2016 Improving Under-Resourced Language ASR through Latent Subword Unit Space Discovery, *Marzieh Razavi* and Mathew Magimai.-Doss, in **INTERSPEECH**, San Francisco, USA.
- Apr. 2016 Acoustic Data-Driven Grapheme-to-Phoneme Conversion in the Probabilistic Lexical Modeling Framework, *Marzieh Razavi*; Ramya Rasipuram and Mathew Magimai.-Doss, in **Speech Communication**.
- Nov. 2015 Pronunciation Lexicon Development for Under-Resourced Languages Using Automatically Derived Subword Units: A Case Study on Scottish Gaelic, *Marzieh Razavi*; Ramya Rasipuram and Mathew Magimai.-Doss, winner of a Best Student Paper Award in **Language and Technology Conference (LTC)**, Poznan, Poland.
- Apr. 2015 An HMM-Based Formalism for Automatic Subword Unit Derivation and Pronunciation Generation, *Marzieh Razavi* and Mathew Magimai.-Doss, in **IEEE ICASSP**, Brisbane, Australia.
- Sep. 2014 On Recognition of Non-Native Speech Using Probabilistic Lexical Model, *Marzieh Razavi* and Mathew Magimai.-Doss, in **INTERSPEECH**, Singapore city, Singapore.
- Apr. 2014 On Modeling Context-dependent Clustered States: Comparing HMM/GMM, Hybrid HMM/ANN And KL-HMM Approaches, *Marzieh Razavi*; Ramya Rasipuram and Mathew Magimai.-Doss, in **IEEE ICASSP**, Florence, Italy.
- Dec. 2013 Probabilistic Lexical Modeling and Unsupervised Training for Zero-Resourced ASR, Ramya Rasipuram; *Marzieh Razavi* and Mathew Magimai.-Doss, in **IEEE ASRU**, Olomouc, Czech Republic.
- Jun. 2011 An Ensemble Model that Combines Syntactic and Semantic Clustering for Discriminative Dependency Parsing, Gholamreza Haffari; *Marzieh Razavi* and Anoop Sarkar, in **ACL**, Portland, USA.

Honors & Awards

- Nov. 2015 **Granted the Best Student Paper Award**, *Language and Technology Conference*, Poznan, Poland.
- Jun. 2014 **Awarded the ISCA Student Travel Grant to Attend INTERSPEECH 2014**, *International Speech communication Association (ISCA)*, Lausanne, Switzerland.
- Sep. 2011 **Recipient of SFU Graduate Fellowship**, *Simon Fraser University*, Vancouver, Canada.
- Summer 2005 **Ranked 258th**, *Among more than 300000 students in the nationwide university entrance exam*, Tehran, Iran.

Activities

- Professional Activities ISCA, IEEE and IEEE SPS student member.
- Extracurricular Activities Poetry, Literature and Calligraphy.