

# TukaAlhanai

## Education

PhD Electrical Engineering & Computer Science 2014 - present  
SM Electrical Engineering & Computer Science 2011 - 2014  
**Massachusetts Institute of Technology**, Cambridge MA USA  
- Harvard-MIT Minor in Speech and Hearing Bioscience and Technology  
- Kaufman Teaching Certificate - Minor in Public Policy

BS Electrical Engineering - Honors with Distinction 2006 - 2011  
**The Petroleum Institute**, Abu Dhabi UAE  
WISE Program (Women in Science & Engineering)

## Experience

**Ghamut Corporation** 2016 - present  
Founder, Technologies at the interface of A.I. and human interaction.

**MIT Computer Science & Artificial Intelligence Lab (CSAIL)**, Cambridge MA USA 2011 - present  
Research Assistant, Spoken Language Systems Group. Advisor: James Glass

**Qatar Computing Research Institute (QCRI)**, Doha QATAR Summer 2013  
Research Assistant, Arabic Language Technologies Group

**Abu Dhabi Company for Onshore Oil Ops (ADCO)**, Abu Dhabi UAE Summer 2010  
Control Engineering Intern, Engineering & Major Projects Division

**The Petroleum Institute**, Abu Dhabi UAE Spring 2009, 2010  
Undergrad Research Assistant, Photovoltaics & Power Electronics

## Awards

AlNokhba Scholarship - Abu Dhabi Education Council **2011 - present** • MassChallenge Winner **2017** • MIT\$100K Semi-Finalist **2017** • MIT Legatum Fellowship for Entrepreneurial Leadership **2016 - 2017** • MIT SHASS De Florez Humor Grant **2015, 2016** • UAE National Research Foundation - Young Emirati Researchers Prize **2016** • UAE Ministry of Higher Education - Pioneers of Innovation Award **2015** • MIT Graduate Student Life Grant for Community Building **2014, 2015** • MIT Mind+Hand+Heart Innovation Fund **2015** • Verizon Powerful Answers Award - Semifinals **2015** • MIT IDEAS Global Challenge Showcase **2015** • Masdar Young Future Energy Leaders **2013** • Abu Dhabi National Oil Company Scholarship **2006 - 2011** • Petroleum Institute Provost's Honor List **2007 - 2010** • Sheikha Sheikha bint Saif Memorial Prize **2006**

## Publications & Presentations (selected)

**Spoken Language Biomarkers for Detecting Cognitive Impairment**, Alhanai et. al, ASRU 2017 • **Predicting Latent Narrative Mood using Audio and Physiologic Data**, Alhanai et. al, AAAI 2017 • **From the Power of Data, to the Data of Power** UAE Federal Authority for Nuclear Regulation, UAE Khalifa University, Carnegie Mellon University Qatar 2015,2016 • **Arabic Automatic Speech Recognition**, QCRI/MIT-CSAIL Annual Meeting 2014 - 2016 • **ICU Provider Sentiment is Associated with Diagnostic Imaging Utilization** (In Submission), M.M. Ghassemi et. al, 2017 • **Recent Advances in ASR Applied to an Arabic Transcription System for Al-Jazeera**, Cardinal et. al, INTERSPEECH 2014 • **Lexical Modeling for Arabic ASR: A Systematic Approach**, Alhanai et. al, INTERSPEECH 2014

## Activities

**Mind+Hand+Heart Connectedness Committee** 2015-2016, • **MIT CONNECT** Building community with random one-on-one lunches between students 2015 - • **Power Foods** Export of dried fruits & dates from Arabia to the World 2015 • **Institute Member** Committee at MIT Athletics, PE, & Rec. Dept. 2014-2016 • **Scribe** MIT Society of Refined Scientists 2015-. • **Founder** MIT Scholars of the Emirates 2015-. • **Mentor & App Reviewer** MIT Summer Research Program. • **Flight of the Falcons** Designed two week immersion at MIT labs & studios for 30+ Emirati students 2015 • **Mentor** Guiding high school students towards college and beyond 2013