

AMIR ZADEH

Carnegie Mellon University
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EDUCATION

- Carnegie Mellon University** *2015 - Present*
Artificial Intelligence Ph.D. Student
Language Technologies Institute
School of Computer Science
MultiComp Lab - Adviser: Louis-Philippe Morency
Yahoo! InMind Fellowship 2015-2016
- University of Tehran** *2008 - 2013*
Computer Engineering B.S.
ECE Department
Advanced Robotics Lab - Adviser: Hadi Moradi
- Alleme Helli Highschool of Exceptional Talents** *2005 - 2008*
Main Branch - Tehran

RESEARCH AREAS

Multimodal Machine Learning and Communication: *Theories, Fusion, Representation Learning*
Natural Language Processing: *Multimodal Language, Sentiment-Emotions-Personality Recognition*
Computer Vision: *Facial Modeling, Inverse Graphics, Representation Learning*
Speech and Acoustic Signal Processing: *Speech Representation Learning, Long-range Sequence Modeling*

PREPRINTS

5. “*Factorized Multimodal Transformer for Multimodal Sequential Learning*”, [Amir Zadeh](#), Chengfeng Mao, Kelly Shi, Yiwei Zhang, Paul Pu Liang, Soujanya Poria, Louis-Philippe Morency
4. “*Pseudo-Encoded Stochastic Variational Inference*”, [Amir Zadeh](#), Simon Hessner, Yao-Chong Lim, Louis-Philippe Morency
3. “*Variational Auto-Decoder: Neural Generative Modeling from Partial Data*”, [Amir Zadeh](#), Yao-Chong Lim, Paul Pu Liang, Louis-Philippe Morency
2. “*M-BERT: Injecting Multimodal Information in the BERT Structure*”, Wasifur Rahman, Md Kamrul Hasan, [Amir Zadeh](#), Louis-Philippe Morency, Mohammed Ehsan Hoque
1. “*WildMix Dataset and Spectro-Temporal Transformer Model for Monoaural Audio Source Separation*”, [Amir Zadeh](#), Tianjun Ma, Soujanya Poria, Louis-Philippe Morency

PUBLICATIONS

15. “*Social-IQ: A Question-Answering Benchmark for Unconstrained Social Intelligence*”, [Amir Zadeh](#), Michael Chan, Paul Pu Liang, Edmund Tong, Louis-Philippe Morency, **CVPR 2019 (Oral)**

14. “*UR-FUNNY: A Multimodal Language Dataset for Understanding Humor*”, Md Kamrul Hasan, Wasifur Rahman, [Amir Zadeh](#), Jianyuan Zhong, Md Itekhhar Tanveer, Louis-Philippe Morency, Mohammed (Ehsan) Hoque, **EMNLP 2019**
13. “*Learning Factorized Multimodal Representation*”, Yao-Hung Hubert Tsai, Paul Pu Liang, [Amir Zadeh](#), Louis-Philippe Morency, Ruslan Salakhutdinov, **ICLR 2019**
12. “*Words Can Shift: Dynamically Adjusting Word Representations Using Nonverbal Behaviors*”, Yansen Wang, Ying Shen, Zhun Liu, Paul Pu Liang, [Amir Zadeh](#)[†], Louis-Philippe Morency, **AAAI 2019**
11. “*Multimodal Language Analysis in the Wild: CMU-MOSEI Dataset and Interpretable Dynamic Fusion Graph*”, [Amir Zadeh](#), Paul Pu Liang, Jonathan Vanbriesen, Soujanya Poria, Edmund Tong, Erik Cambria, Minghai Chen, Louis-Philippe Morency, **ACL 2018 (Oral)**
10. “*Memory Fusion Network for Multi-view Sequential Learning*”, [Amir Zadeh](#), Paul Pu Liang, Navonil Mazumder, Soujanya Poria, Erik Cambria, Louis-Philippe Morency, **AAAI 2018 (Oral)**
9. “*Efficient Low-rank Multimodal Fusion with Modality-Specific Factors*”, Zhun Liu, Ying Shen, Varun Bharadhwaj Lakshminarasimhan, Paul Pu Liang, [Amir Zadeh](#)[†], Louis-Philippe Morency, **ACL 2018 (Oral)**
8. “*Multimodal Language Analysis with Recurrent Multistage Fusion*”, Paul Pu Liang, Ziyin Liu, [Amir Zadeh](#)[†], Louis-Philippe Morency, **EMNLP 2018 (Oral)**
7. “*Conversational Memory Network for Emotion Recognition in Dyadic Dialogue Videos*”, Devamanyu Hazarika, Soujanya Poria, [Amir Zadeh](#)[†], Erik Cambria, Louis-Philippe Morency, Roger Zimmermann, **NAACL 2018**
6. “*Multi-attention Recurrent Network for Human Communication Comprehension*”, [Amir Zadeh](#), Paul Pu Liang, Soujanya Poria, Erik Cambria, Prateek Viji, Louis-Philippe Morency, **AAAI 2018 (Oral)**
5. “*OpenFace 2.0: Facial Behavior Analysis Toolkit*”, Tadas Baltruaitis, [Amir Zadeh](#), Yao-Chong Lim, Louis-Philippe Morency, **FG 2018 (Oral)**
4. “*Convolutional Experts Network for Facial Landmark Detection*”, [Amir Zadeh](#), Yao-Chong Lim, Tadas Baltruaitis, Louis-Philippe Morency, workshop, **CVPR 2017**
3. “*Combating Human Trafficking with Multimodal Deep Models*”, Edmund Tong*, [Amir Zadeh](#)*, Cara Jones, Louis-Philippe Morency, **ACL 2017**
2. “*Context-Dependent Sentiment Analysis in User-Generated Videos*”, Soujanya Poria, Erik Cambria, Devamanyu Hazarika, Navonil Mazumder, [Amir Zadeh](#)[†], Louis-Philippe Morency, **ACL 2017 (Oral)**
1. “*Tensor Fusion Network For Multimodal Sentiment Analysis*”, [Amir Zadeh](#)*, Minghai Chen*, Soujanya Poria, Erik Cambria, Louis-Philippe Morency, **EMNLP 2017 (Oral)**

INVITED TALKS

4. Google Seattle, 2020 (upcoming)
3. Workshop on Bridging Language and Vision, ICCV 2019
2. University of Rochester ROHCI Lab, 2018
1. Google San Francisco, 2018

ORGANIZATION SERVICES

4. Organizer of Grand-challenge and Workshop on Multimodal Language – Co-located with ACL 2020.

3. Organizer of Workshop on Multimodal Learning – Co-located with CVPR 2020.
2. Co-organizer of Workshop on Cross-Modal Learning – Co-located with ICCV 2019.
1. Organizer of Grand-challenge and Workshop on Multimodal Language – Co-located with ACL 2018.

PROGRAM COMMITTEE EXPERIENCE

7. Association for Computational Linguistics (ACL)
6. Empirical Methods in Natural Language Processing (EMNLP)
5. Computer Vision and Pattern Recognition (CVPR)
4. Neural Information Processing Systems (NeurIPS)
3. Association for Advancements in Artificial Intelligence (AAAI)
2. International Conference on Learning Representations (ICLR)
1. International Conference on Multimodal Interaction (ICMI)

TEACHING SERVICES

3. Guest lecturer: Advanced Multimodal Machine Learning 11777, CMU, Fall 2018
2. Guest lecturer: Advanced Multimodal Machine Learning 11777, CMU, Fall 2017
1. Head Teaching Assistant: Introduction to Artificial Intelligence, University of Tehran, Fall and Spring 2011, 2012, 2013.

CO-ADVISED STUDENTS AT CMU

Chengfeng Mao, Masters in CS	Jed Yang, Masters in ML
Yao-Chong Lim, Masters in CS	Paul Pu Liang, Masters in ML
Tejas Srinivasan, Masters in LT	Vivek Pandit, Masters in CDS
Amala Deshmukh, Masters in CS	Justin Cao, Masters in ML
Richard Wang, Masters in CV	Justin Cao, Masters in ML
Vedant Sanil, Masters in ECE	Kelly Shi, Masters in CS
Zhun Liu, Masters in IIS	Anurag Katakhar, Masters in CDS
Abhishek Sawarkar, Masters in ECE	Harsh Lara, Masters in CDS
Irene Li, Masters in ML	Tianjun Ma, Masters in CS
Minghai Chen, Masters in Cs	Ying Shen, Masters in IIS
Varun Lakshminarasimhan, Masters in IIS	Holmes Wu, Undergraduate CS