

Shruti Palaskar

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RESEARCH INTERESTS

Multimodal Machine Learning, Automatic Speech Recognition, Natural Language Processing

EDUCATION

- 2018-Current **Carnegie Mellon University, Pittsburgh, USA**
Ph.D., LTI, School of Computer Science
- 2016-2018 **Carnegie Mellon University, Pittsburgh, USA**
Master of Language Technologies, LTI, School of Computer Science
- 2012-2016 **Pune Institute of Computer Technology, University of Pune, India**
Bachelor of Engineering, Computer Engineering
Grade: First Class with Distinction

HONORS & AWARDS

- AAAI'19 **Winner** of the Dialog State Tracking Challenge 7, Audio-Visual Scene Aware Dialog Track
- Interspeech'18 **PhD student panelist** at the Young Female Researchers in Speech Workshop
- CMLH 2018-19 Recipient of the **CMLH Fellowship in Digital Health**
- CMU 2016-18 Recipient of the **LTI Graduate Fellowship**
- Interspeech'17 **Student Scholar** at the Young Female Researchers in Speech Workshop

PUBLICATIONS

- AAAI'19 DSTC7 "CMU Sinbad's Submission to the DSTC7 AVSD Track",
(under review) Ramon Sanabria*, **Shruti Palaskar***, and Florian Metze
- ICASSP'19 "Learned in Speech Recognition: Contextual Acoustic Word Embeddings",
(under review) **Shruti Palaskar**, Vikas Raunak and Florian Metze
- ICASSP'19 "Learning from Multiview Correlations in Open-Domain Videos",
(under review) Nils Holtenberger*, **Shruti Palaskar***, Pranava Madhyastha, Raman Arora and Florian Metze
- ICASSP'19 "Multimodal Grounding for Sequence-to-Sequence Speech Recognition",
(under review) Ozan Caglayan, Ramon Sanabria, **Shruti Palaskar**, Loic Barrault and Florian Metze
- NIPS ViGIL'19 "Multimodal Abstractive Summarization for Open-Domain Videos",
Spotlight Jindrich Libovicky, **Shruti Palaskar**, Spandana Gella and Florian Metze
- NIPS ViGIL'19 "How2: A Large-scale Dataset for Multimodal Language Understanding", Ramon Sanabria, Ozan Caglayan, **Shruti Palaskar**, Desmond Elliot, Loic Barrault, Lucia Specia and Florian Metze
- SLT'18 "Acoustic-to-Word Recognition with Sequence-to-Sequence Models",
Shruti Palaskar and Florian Metze
- ICASSP'18 "End-to-End Multimodal Speech Recognition",
Shruti Palaskar*, Ramon Sanabria*, Florian Metze
- ICASSP'18 "Linguistic Unit Discovery from Multimodal Inputs in Unwritten Languages",
Odette Scharenborg,..., **Shruti Palaskar**,..., Emmanuel Dupoux

- ICNLSSP'17 "Building an ASR System for a Low-resource Language Through the Adaptation of a High-resource Language ASR System: Preliminary Results", Odette Scharenborg, Francesco Ciannella, **Shruti Palaskar**, Alan Black, Florian Metze, Lucas Ondel, Mark Hasegawa-Johnson
- Interspeech'17 "End-to-End Audio Visual Speech Recognition and Summarization", **Shruti Palaskar** and Florian Metze (Poster at YFRS Workshop)
- arXiv "Combining LSTM and Latent Topic Modeling for Mortality Prediction", Yohan Jo, Lisa Lee, **Shruti Palaskar**

ONGOING & PAST RESEARCH

- Sep'18-Current **Information Extraction from Speech Dialogs**, *Graduate Research Assistant, CMU*
Advisor: Prof. Florian Metze
- Developing direct speech-to-information extraction systems for medical conversations
- May'17-Current **Multimodal Speech Recognition and Summarization**, *Graduate Research Assistant, CMU*
Advisor: Prof. Florian Metze
- Building multimodal models to jointly learn to recognize and summarize speech
- Jan'18-Aug'18 **DARPA AIDA**, *Graduate Research Assistant, CMU*
Advisors: Prof. Florian Metze, Prof. Eduard Hovy
- Building multimodal speech recognition models for online inference with streaming data

PAST INTERNSHIPS

- Jun'18-Aug'18 **Grounded Sequence-to-Sequence Transduction**, *Graduate Student Participant*
JSALT, JHU *Advisors: Prof. Lucia Specia, Prof. Florian Metze*
- Building better multimodal learning representations for speech recognition, summarization
- Jun'17-Aug'17 **Multimodal Linguistic Unit Discovery**, *Graduate Student Participant*
JSALT, CMU *Advisors: Prof. Emmanuel Dupoux, Prof. Odette Scharenborg, Prof. Florian Metze*
- Worked on sub-unit adaptation from high to low resource languages for ASR
- May'15-Jul'15 **Real-Time Motion Tracking**, *Innovation Engineer*
MIT Media Lab *Advisors: Dr. Hyunsung Park, Prof. Ramesh Raskar*
- ReDx • Collected chewing videos data for real-time detection of unilateral chewing and TMJ syndrome
- Sep'15-Dec'15 **Statistical Machine Translation**, *Research Intern*
IIT Bombay *Advisor: Prof. Ganesh Ramakrishnan*
- Focused on generating correct constituent structure and word sense disambiguation

PROGRAMMING EXPERIENCE

Skills Python, PyTorch, TensorFlow, MATLAB, Lua, Java, C, C++, Bash

RELEVANT COURSES

- CMU Topics in Deep Learning, Probabilistic Graphical Models, Speech Recognition and Understanding, Introduction to Machine Learning, Algorithms for NLP, Large Scale Multimedia Analysis, Computational Semantics
- PICT Data Structures, Advanced Algorithms, Advanced Operating Systems, Databases, Computer Networks, Compilers, Parallel and Distributed Computing, NLP, Discrete Math, Signal Processing

TEACHING ASSISTANT & PROFESSIONAL SERVICE

- Fall'18 TA for Speech Recognition and Understanding course taught by Prof. Florian Metze
- Reviewer Reviewer for the Dialog State Tracking Challenge 7 Audio-Visual Scene Aware Track