Shruti Palaskar

∠ spalaska@cs.cmu.edu

• https://github.com/shrutijpalaskar

in https://www.linkedin.com/in/shrutipalaskar/

https://shrutijpalaskar.github.io

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

Fellowship Receipient of the Facebook PhD Fellowship for years 2019-2021

Fellowship Receipient of the Center for Machine Learning and Health PhD Fellowship for 2018-2019

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

Fellowship Recipient of the CMU LTI Graduate Fellowship for academic years 2016-2018

PUBLICATIONS

AAAI'19 DSTC7 "CMU Sinbad's Submission to the DSTC7 AVSD Track",

Oral 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 Holzenberger*, 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'18 "Multimodal Abstractive Summarization for Open-Domain Videos",

Spotlight Jindrich Libovicky, Shruti Palaskar, Spandana Gella and Florian Metze

NIPS ViGIL '18 "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

TA Fall'18 TA for Speech Recognition and Understanding course taught by Prof. Florian Metze

Reviewer Reviewer for ICASSP 2019, Dialog State Tracking Challenge 7 AVSD Track 2019