SHRUTI PALASKAR

spalaska@cs.cmu.edu

shrutijpalaskar.github.io

RESEARCH INTERESTS

Multimodal Machine Learning, Speech Recognition, Natural Language Processing

EDUCATION

Carnegie Mellon University 2018 - Current
PhD Language Technologies, School of Computer Science Advisors: Florian Metze, Alan Black

Carnegie Mellon University 2016 - 2018
MS Language Technologies, School of Computer Science Advisor: Florian Metze

Pune Institute of Computer Technology 2012 - 2016
BE Computer Engineering, First Class with Distinction

HONORS AND AWARDS

Facebook Graduate Fellowship [Link] 2019-2021

Center for Machine Learning and Health Graduate Fellowship [Link] 2018-2019

CMU LTI Masters Research Fellowship 2016-2018

Winning team of the 7^{th} Dialog State Tracking Challenge, AAAI 2019 2019

INVITED TALKS

Learning from Large-Scale Instructional Videos
IBM, Yorktown Heights, NY October 2019
Facebook, Menlo Park, CA September 2019

Learning Acoustic Word Embeddings
University of Copenhagen, Denmark July 2019
Amazon, Seattle, WA March 2019

PUBLICATIONS

Journal Papers

3. **Shruti Palaskar***, Ramon Sanabria* and Florian Metze, "Transfer Learning for Multimodal Dialog", Computer Speech and Language Elsevier 2020

2. Specia, Arora, Barrault, Caglayan, Duarte, Elliott, Gella, Holzenberger, Lala, Lee, Libovický, Madhyastha, Metze, Mulligan, Ostapenko, **Palaskar**, Sanabria, Wang, "Grounded Sequence-to-Sequence Transduction", IEEE Journal on Selected Topics in Signal Processing, 2020

1. Scharenborg, Besacier, Black, Hasegawa-Johnson, Metze, Neubig, Stüker, Godard, Müller, Ondel, **Palaskar**, Arthur, Ciannella, Du, Larsen, Merkx, Riad, Wang, Dupoux, "Speech Technology for Unwritten Languages", IEEE Transactions on Audio, Speech and Language Processing, 2020

Conference Papers

9. Anirudh Mani*, **Shruti Palaskar***, NV Meripo, Sandeep Konam and Florian Metze, "ASR Error Correction and Domain Adaptation Using Machine Translation", ICASSP 2020 ***Oral Presentation***
8. **Shruti Palaskar**, Jindrich Libovicky, Spandana Gella and Florian Metze, "Multimodal Abstractive Summarization of How2 Videos", ACL 2019
7. **Shruti Palaskar***, Vikas Raunak* and Florian Metze, "Learned in Speech Recognition: Contextual Acoustic Word Embeddings", ICASSP 2019
6. Nils Holzenberger*, **Shruti Palaskar***, Pranava Madhyastha, Raman Arora and Florian Metze, "Learning from Multiview Correlations in Open-Domain Videos", ICASSP 2019
5. Ozan Caglayan, Ramon Sanabria, **Shruti Palaskar**, Loic Barrault and Florian Metze, "Multimodal Grounding for Sequence-to-Sequence Speech Recognition", ICASSP 2019
4. **Shruti Palaskar** and Florian Metze, "Acoustic-to-Word Recognition with Sequence-to-Sequence Models", SLT 2018
3. **Shruti Palaskar***, Ramon Sanabria*, Florian Metze, "End-to-End Multimodal Speech Recognition", ICASSP 2018
2. Scharenborg, Besacier, Black, Hasegawa-Johnson, Metze, Neubig, Stüker, Godard, Müller, Ondel, **Palaskar**, Arthur, Ciannella, Du, Larsen, Merkx, Riad, Wang, Dupoux, "Linguistic Unit Discovery from Multimodal Inputs in Unwritten Languages", ICASSP 2018
1. Odette Scharenborg, Francesco Ciannella, **Shruti Palaskar**, Alan Black, Florian Metze, Lucas Ondel, Mark Hasegawa-Johnson, "Building an ASR System for a Low-resource Language Through the Adaptation of a High-resource Language ASR System: Preliminary Results", ICNLSSP 2017

Workshop Papers

4. Ramon Sanabria*, **Shruti Palaskar***, and Florian Metze, "CMU Sinbad's Submission to the DSTC7 AVSD Track", Dialog State Tracking Challenge (DSTC) and Workshop, AAAI 2019 ***Oral Presentation***
3. Jindrich Libovicky, **Shruti Palaskar**, Spandana Gella and Florian Metze, "Multimodal Abstractive Summarization for Open-Domain Videos", Visually Grounded Interaction and Language (ViGIL), NeurIPS 2018 ***Spotlight Presentation***
2. Ramon Sanabria, Ozan Caglayan, **Shruti Palaskar**, Desmond Elliot, Loic Barrault, Lucia Specia and Florian Metze, "How2: A Large-scale Dataset for Multimodal Language Understanding", Visually Grounded Interaction and Language (ViGIL), NeurIPS 2018
1. **Shruti Palaskar** and Florian Metze, "End-to-End Audio Visual Speech Recognition and Summarization", Young Female Researchers in Speech Workshop (YFRSW), Interspeech 2017

INTERNSHIPS

Abridge AI — May 2019 - Aug 2019
Research Intern — *Pittsburgh, PA*

Jelinek Memorial Workshop on Speech and Language Technology — June 2018 - Aug 2018
Graduate Student Participant at Johns Hopkins University — *Baltimore, MD*

Jelinek Memorial Workshop on Speech and Language Technology — June 2017 - Aug 2017
Graduate Student Participant at Carnegie Mellon University — *Pittsburgh, PA*

IIT Bombay Sept 2015 - Dec 2015
Research Intern *Mumbai, India*

MIT Media Lab REDX May 2015 - July 2015
Innovation Engineer *Mumbai, India*

TEACHING

Natural Language Processing 11-4/611 Spring 2020
Undergraduate and Graduate Course, CMU *Head Teaching Assistant*

Speech Recognition and Understanding 11-751, 18-751 Fall 2018
Graduate Course, CMU *Teaching Assistant*

Guest Lectures

1. "Multimodal Machine Learning" in Natural Language Processing, CMU, Apr 2020
2. "End-to-End Speech Recognition" in Speech Recognition and Understanding, CMU, Oct 2018

ACADEMIC SERVICE

Organization Services

1. Socio-Cultural Inclusion Co-chair, Diversity & Inclusion, *ACL 2020*

2. Workshop Co-Organizer, The How2 Challenge and Workshop: New Tasks for Vision and Language, *ICML 2019*

3. Student Volunteer, *ICASSP 2020*

Reviewing Services

1. Journal Reviewing. Elsevier Computer Speech and Language 2019

2. Conference Reviewing. NAACL 2019, ICASSP 2019, ICML 2020

3. Workshop Reviewing. DSTC AAAI 2019, 2020; ML4H 2019; LTI Student Research Symposium 2019; AVLR ACL 2020

OUTREACH

Creative Technologies Nights, CMU
Introduce middle school girls to various technology-related topics in weekly presentations.

Take Our Daughters and Sons to Work, CMU
Present a roadshow about working in Computer Science to middle school children.

Young Female Researchers in Speech Workshop, Interspeech 2017, 2018
Participated and mentored students working in speech technologies.