

SHRUTI PALASKAR

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RESEARCH INTERESTS

Multimodal Machine Learning, Speech Recognition, Natural Language Processing

EDUCATION

Carnegie Mellon University PhD Language Technologies, School of Computer Science	2018 - Current Advisors: Florian Metze, Alan Black
Carnegie Mellon University MS Language Technologies, School of Computer Science	2016 - 2018 Advisor: Florian Metze
Pune Institute of Computer Technology BE Computer Engineering, First Class with Distinction	2012 - 2016

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 7th Dialog State Tracking Challenge, AAI 2019	2019

INVITED TALKS

Learning from Large-Scale Instructional Videos IBM, Yorktown Heights, NY Facebook, Menlo Park, CA	October 2019 September 2019
Learning Acoustic Word Embeddings University of Copenhagen, Denmark Amazon, Seattle, WA	July 2019 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, Merx, 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, Merks, 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 <i>Research Intern</i>	May 2019 - Aug 2019 <i>Pittsburgh, PA</i>
Jelinek Memorial Workshop on Speech and Language Technology <i>Graduate Student Participant, Johns Hopkins University</i>	June 2018 - Aug 2018 <i>Baltimore, MD</i>
Jelinek Memorial Workshop on Speech and Language Technology <i>Graduate Student Participant, Carnegie Mellon University</i>	June 2017 - Aug 2017 <i>Pittsburgh, PA</i>
IIT Bombay <i>Research Intern</i>	Sept 2015 - Dec 2015 <i>Mumbai, India</i>
MIT Media Lab REDX <i>Innovation Engineer</i>	May 2015 - July 2015 <i>Mumbai, India</i>

TEACHING

Natural Language Processing

Large Undergraduate and Graduate Course, CMU

Spring 2020

Head Teaching Assistant

Speech Recognition and Understanding

Graduate Course, CMU

Fall 2018

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; 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.