SHRUTI PALASKAR

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🌐 shrutijpalaskar.github.io

RESEARCH INTERESTS

Multimodal Machine Learning, Speech Recognition, Natural Language Processing

EDUCATION

Carnegie Mellon University — 2018 - 2021 (Expected)
PhD Language Technologies, School of Computer Science — Advisors: Florian Metze, Alan W. 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

Rising Stars in EECS — 2020

Facebook Graduate Fellowship — 2019-2021

Center for Machine Learning and Health Graduate Fellowship — 2018-2019

CMU LTI Masters Research Fellowship — 2016-2018

Winning team of the 7th Dialog State Tracking Challenge, AAAI 2019 — 2019

INVITED TALKS

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

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

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. **Shruti Palaskar**, Ruslan Salakhutdinov, Alan W. Black and Florian Metze, "Hierarchical Semantic Concepts for Multimodal Video Understanding", *Under Review*

8. Anirudh Mani*, **Shruti Palaskar***, NV Meripo, Sandeep Konam and Florian Metze, "ASR Error Correction and Domain Adaptation Using Machine Translation", *ICASSP 2020* **Oral Presentation**

7. **Shruti Palaskar**, Jindrich Libovicky, Spandana Gella and Florian Metze, "Multimodal Abstractive Summarization of How2 Videos", *ACL 2019*

6. **Shruti Palaskar***, Vikas Raunak* and Florian Metze, "Learned in Speech Recognition: Contextual Acoustic Word Embeddings", *ICASSP 2019*

5. Nils Holzenberger*, **Shruti Palaskar***, Pranava Madhyastha, Raman Arora and Florian Metze, "Learning from Multiview Correlations in Open-Domain Videos", *ICASSP 2019*

4. Ozan Caglayan, Ramon Sanabria, **Shruti Palaskar**, Loic Barrault and Florian Metze, "Multimodal Grounding for Sequence-to-Sequence Speech Recognition", *ICASSP 2019*

3. **Shruti Palaskar** and Florian Metze, "Acoustic-to-Word Recognition with Sequence-to-Sequence Models", *SLT 2018*

2. **Shruti Palaskar***, Ramon Sanabria*, Florian Metze, "End-to-End Multimodal Speech Recognition", *ICASSP 2018*

1. 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*

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

Facebook AI	May 2020 - Aug 2020
Research Intern	*Menlo Park, CA*
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 ML" in Natural Language Processing, CMU, April 2020 [Slides] [Video]

2. "End-to-End Speech Recognition" in Speech Recognition and Understanding CMU, Oct 2018

ACADEMIC SERVICE

Organization Services

1. Socio-Cultural Inclusion Committee Co-chair, ACL 2020

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

3. Student Volunteer, ICASSP 2020

4. Mentor, ML4H, NeurIPS 2020
Providing continuous feedback and review on paper submission for junior researchers

Reviewing Services

1. Journal Reviewing. Elsevier Computer Speech and Language 2019

2. Conference Reviewing. ICLR 2021, EMNLP 2020, NAACL 2019, ICASSP 2019, ICML 2020

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

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.