

# SHRUTI PALASKAR

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🌐 [shrutijpalaskar.github.io](https://shrutijpalaskar.github.io)

## RESEARCH INTERESTS

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Multimodal Machine Learning, Speech Recognition, Natural Language Processing

## EDUCATION

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<b>Carnegie Mellon University</b> PhD Language Technologies, School of Computer Science	2018 - May 2022 (Expected) Advisors: Florian Metze, Alan W. Black
<b>Carnegie Mellon University</b> MS Language Technologies, School of Computer Science	2016 - 2018 Advisor: Florian Metze
<b>Pune Institute of Computer Technology</b> BE Computer Engineering	2012 - 2016 <i>First Class with Distinction</i>

## HONORS AND AWARDS

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<b>EECS Rising Stars</b>	2020
<b>Facebook Graduate Fellowship</b>	2019-2021
<b>Center for Machine Learning and Health Graduate Fellowship</b>	2018-2019
<b>CMU LTI Graduate Fellowship</b>	2016-2018
<b>Winning team of the 7<sup>th</sup> Dialog State Tracking Challenge Multimodal Track</b>	AAAI 2019

## INVITED TALKS

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<b>IBM, Yorktown Heights, NY</b>	October 2019
<b>Facebook, Menlo Park, CA</b> <i>Learning from Large-Scale Instructional Videos</i>	September 2019
<b>University of Copenhagen, Denmark</b>	July 2019
<b>Amazon, Seattle, WA</b> <i>Learning Acoustic Word Embeddings</i>	March 2019

## PUBLICATIONS

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### Journal Papers

3. **Shruti Palaskar\***, Ramon Sanabria\* and Florian Metze, “Transfer Learning for Multimodal Dialog”, *Elsevier Computer Speech and Language*, 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, Merks, Riad, Wang, Dupoux, “Speech Technology for Unwritten Languages”, *IEEE Transactions on Audio, Speech and Language Processing*, 2020

## Conference Papers

11. **Shruti Palaskar**, Yonatan Bisk, Alan W. Black and Florian Metze, “Hierarchical Generation for Visual Commonsense Reasoning”, *In Preparation*
10. **Shruti Palaskar**, Ruslan Salakhutdinov, Alan W. Black and Florian Metze, “Hierarchical Semantic Concepts for Multimodal Video Understanding”, *Under Review*
9. Amanda Duarte, **Shruti Palaskar**, Deepti Ghadiyaram, Kenneth DeHaan, Florian Metze, Jordi Torres, and Xavier Giro-i-Nieto, “How2Sign: A Large-scale Multimodal Dataset for Continuous American Sign Language”, *In Preparation*
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, Merks, Riad, Wang, Dupoux, “Linguistic Unit Discovery from Multimodal Inputs in Unwritten Languages”, *ICASSP 2018*

## Workshop Papers

5. Anirudh Mani, **Shruti Palaskar**, and Sandeep Konam, “Towards understanding ASR error correction for medical conversations”, *First Workshop on Natural Language Processing for Medical Conversations, ACL 2020*
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

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<b>Facebook AI</b> <i>Research Intern</i>	May 2020 - Aug 2020 <i>Menlo Park, CA</i>
<b>Abridge AI</b> <i>Research Intern</i>	May 2019 - Aug 2019 <i>Pittsburgh, PA</i>
<b>Jelinek Memorial Workshop on Speech and Language Technology</b> <i>Graduate Student Participant at Johns Hopkins University</i>	June 2018 - Aug 2018 <i>Baltimore, MD</i>
<b>Jelinek Memorial Workshop on Speech and Language Technology</b> <i>Graduate Student Participant at Carnegie Mellon University</i>	June 2017 - Aug 2017 <i>Pittsburgh, PA</i>
<b>IIT Bombay</b> <i>Research Intern</i>	Sept 2015 - Dec 2015 <i>Mumbai, India</i>
<b>MIT Media Lab REDX</b> <i>Innovation Engineer</i>	May 2015 - July 2015 <i>Mumbai, India</i>

## TEACHING

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<b>Natural Language Processing 11-4/611</b> <i>Undergraduate and Graduate Course, CMU</i>	Spring 2020 <i>Head Teaching Assistant</i>
<b>Speech Recognition and Understanding 11-751, 18-751</b> <i>Graduate Course, CMU</i>	Fall 2018 <i>Head Teaching Assistant</i>

### Guest Lectures

1. “Multimodal ML”, Natural Language Processing, CMU - *Spring 2020, Fall 2020* [\[Slides\]](#) [\[Video\]](#)
2. “End-to-End Speech Recognition”, Speech Recognition and Understanding, CMU - *Fall 2018*

## ACADEMIC SERVICE

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### Organization Services

1. Lead Organizer for SCS CMU’s [Graduate Applicant Support Program, 2020](#)
2. ACL 2020 [Socio-Cultural Diversity and Inclusion Committee Co-chair](#)
3. ICML 2019 Workshop Co-Organizer [The How2 Challenge and Workshop: New Tasks for Vision and Language](#)
4. ICASSP 2020 Student Volunteer
5. NeurIPS 2020 ML4H Mentor - 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: EACL 2021, ICLR 2021, EMNLP 2020, NAACL 2019, ICASSP 2019, ICML 2020
3. Workshop Reviewing: DSTC AAAI 2019, 2020; ML4H 2019, 2020; LTI SRS 2019

## OUTREACH

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### **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.