

# SHRUTI PALASKAR

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## RESEARCH INTERESTS

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Multimodal Machine Learning, Speech Recognition, Natural Language Processing

## EDUCATION

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**Carnegie Mellon University**

PhD Language Technologies, School of Computer Science

2018 - Current

Advisor: Florian Metze

**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

## PUBLICATIONS

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### Journal Papers

- Shruti Palaskar\*, Ramon Sanabria\* and Florian Metze, “Transfer Learning for Multimodal Dialog”, Elsevier Computer Speech and Language 2019 (Under Review)
- 2018 JSALT Workshop Team, “Grounded Sequence-to-Sequence Transduction”, IEEE Journal on Selected Topics in Signal Processing 2019 (Under Review)
- 2017 JSALT Workshop Team, “Speech Technology for Unwritten Languages”, IEEE Transactions on Audio, Speech and Language Processing 2019 (Under Review)

### Conference Papers

- Shruti Palaskar, Jindrich Libovicky, Spandana Gella and Florian Metze, “Multimodal Abstractive Summarization of How2 Videos”, ACL 2019
- Shruti Palaskar\*, Vikas Raunak\* and Florian Metze, “Learned in Speech Recognition: Contextual Acoustic Word Embeddings”, ICASSP 2019
- Nils Holzenberger\*, Shruti Palaskar\*, Pranava Madhyastha, Raman Arora and Florian Metze, “Learning from Multiview Correlations in Open-Domain Videos”, ICASSP 2019
- Ozan Caglayan, Ramon Sanabria, Shruti Palaskar, Loic Barrault and Florian Metze, “Multimodal Grounding for Sequence-to-Sequence Speech Recognition”, ICASSP 2019
- Shruti Palaskar and Florian Metze, “Acoustic-to-Word Recognition with Sequence-to-Sequence Models”, SLT 2018
- Shruti Palaskar\*, Ramon Sanabria\*, Florian Metze, “End-to-End Multimodal Speech Recognition”, ICASSP 2018
- Odette Scharenborg,..., Shruti Palaskar,..., Emmanuel Dupoux, “Linguistic Unit Discovery from Multimodal Inputs in Unwritten Languages”, ICASSP 2018
- 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

- 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*
- 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*
- 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
- Shruti Palaskar and Florian Metze, “End-to-End Audio Visual Speech Recognition and Summarization”, Young Female Researchers in Speech Workshop (YFRSW), Interspeech 2017

## HONORS AND AWARDS

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Facebook Fellowship	2019-2021
Center for Machine Learning and Health Fellowship	2018-2019
CMU LTI Graduate Fellowship	2016-2018
Winning team of the Dialog State Tracking Challenge, AAAI 2019	2019

## INVITED TALKS

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

## INTERNSHIPS

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Abridge AI Inc <i>Research Intern</i>	May 2019 - August 2019 <i>Pittsburgh, PA</i>
5 <sup>th</sup> Frederick Jelinek Memorial Summer Workshop (JSALT) <i>Graduate Student Participant, Johns Hopkins University</i>	June 2018 - August 2018 <i>Baltimore, MD</i>
4 <sup>th</sup> Frederick Jelinek Memorial Summer Workshop (JSALT) <i>Graduate Student Participant, Carnegie Mellon University</i>	June 2017 - August 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

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Speech Recognition and Understanding <i>Graduate Course, CMU</i>	Fall 2018 <i>Teaching Assistant</i>
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## ACADEMIC SERVICE

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### **Workshop Co-Organizer**

The How2 Challenge and Workshop: New Tasks for Vision and Language  
*ICML 2019, Long Beach, CA*

### **Journal Reviewing**

Computer Speech and Language, Elsevier 2019

### **Conference Reviewing**

NAACL 2019

ICASSP 2019

### **Workshop Reviewing**

Dialog State Tracking Challenge AAAI 2019

### **Departmental Service**

LTI Open-House Student Research Symposium Reviewer 2019

## OUTREACH

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### **Creative Technologies Nights, CMU**

January 2019 - Current

Introduce middle school girls to various technology-related topics in weekly presentations.

Part of a program to encourage young women to pursue higher education and careers in STEM fields.

### **Take Our Daughters and Sons to Work, CMU**

April 2019 - Current

Present a roadshow about working in the Computer Science field  
to high school boys and girls to encourage them for a career in CS.

### **Young Female Researchers in Speech Workshop, Interspeech**

2017 - 2019

Participated (2017) and mentored (2018) bachelor's and master's students working  
in speech recognition and related fields to encourage them to continue a career in speech technologies.