

SHRUTI PALASKAR

spalaska@cs.cmu.edu shrutijpalaskar.github.io

RESEARCH INTERESTS

Multimodal Machine Learning, Speech Recognition, Natural Language Processing

EDUCATION

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|---|------------------------|
| Carnegie Mellon University | 2018 - Current |
| PhD Language Technologies, School of Computer Science | Advisor: Florian Metze |
| 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 | |

PUBLICATIONS

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 th Frederick Jelinek Memorial Summer Workshop (JSALT) <i>Graduate Student Participant, Johns Hopkins University</i> | June 2018 - August 2018 <i>Baltimore, MD</i> |
| 4 th Frederick Jelinek Memorial Summer Workshop (JSALT) <i>Graduate Student Participant, Carnegie Mellon University</i> | June 2017 - August 2017 <i>Pittsburgh, PA</i> |
| MIT Media Lab REDX <i>Innovation Engineer</i> | May 2015 - July 2015 <i>Mumbai, India</i> |
| IIT Bombay <i>Research Intern</i> | Sept 2015 - Dec 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

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

Creative Technologies Nights

January 2019 - Current

Carnegie Mellon University

Introduce middle school girls to various technology-related topics in weekly presentations as part of a program to encourage young women to pursue higher education and careers in STEM fields.

Take Our Daughters and Sons to Work

April 2019 - Current

Carnegie Mellon University

Present a roadshow about Computer Science and life of a Computer Scientist to high school boys and girls to encourage them for a career in CS.

Young Female Researchers in Speech Workshop

2017 - 2019

INTERSPEECH

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.