

## Ashutosh Pandey

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- RESEARCH INTERESTS** Speech enhancement and separation, speech dereverberation, speaker separation, deep learning
- EDUCATION**
- Ph.D. student***, Computer Science and Engineering August 2016 - Present  
The Ohio State University (OSU), Columbus, OH, USA  
Advisor: Prof. DeLiang Wang  
GPA: 4.0/4.0
- B.Tech***, Electronics and Communication Engineering August 2011 - June 2015  
Indian Institute of Technology Guwahati, Guwahati, Assam, India  
Thesis: Significance of Glottal Activity Detection for Speaker Verification in Degraded and Limited Data Condition  
Advisor: Prof. S.R.M. Prasanna  
GPA: 8.92/10.0
- PUBLICATIONS**
- [6] **Ashutosh Pandey** and DeLiang Wang, “Exploring Deep Complex Networks for Complex Spectrogram Enhancement”, in *ICASSP*, 2019, pp. 6885-6889.
- [5] **Ashutosh Pandey** and DeLiang Wang, “TCNN: Temporal Convolutional Neural Network for Real-Time Speech Enhancement in the Time Domain”, in *proceedings of ICASSP*, 2019, pp. 6875-6879.
- [4] **Ashutosh Pandey** and DeLiang Wang, “A New Framework for CNN Based Speech Enhancement in the Time Domain”, in *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 27, no. 7, pp. 1179-1188, 2019.
- [3] **Ashutosh Pandey** and DeLiang Wang, “A New Framework for Supervised Speech Enhancement in the Time Domain”, in *proceedings of INTERSPEECH*, 2018, pp. 1136-1140.
- [2] **Ashutosh Pandey** and DeLiang Wang, “On Adversarial Training and Loss Functions for Speech Enhancement”, in *proceedings of ICASSP*, 2018, pp. 5414-5418.
- [1] **Ashutosh Pandey**, Rohan Kumar Das, Nagraj Adiga, Naresh Gupta and S R Mahadeva Prasanna, “Significance of Glottal Activity Detection for Speaker Verification in Degraded and Limited Data Condition”, in *proceedings of TENCON*, 2015, pp. 1-6.
- SUBMITTED PAPERS**
- [2] **Ashutosh Pandey** and DeLiang Wang, “On Cross-Corpus Generalization of Deep Learning Based Speech Enhancement”, submitted in *ICASSP*, 2020
- [1] **Ashutosh Pandey** and DeLiang Wang, “Densely Connected Neural Network with Dilated Convolutions for Real-Time Speech Enhancement in the Time Domain”, submitted in *ICASSP*, 2020

<b>RESEARCH EXPERIENCES</b>	<i>Reserach Internship</i>	May 2019 - August 2019
	Siri Understanding, Apple Inc., Cupertino, California, USA	
	<ul style="list-style-type: none"> <li>• Acoustic modeling for automatic speech recognition</li> </ul>	
	<i>Graduate Research Associate</i>	August 2017 - present
	Perception and Neurodynamics Laboratory (PNL), The Ohio State University, Columbus, OH, USA	
	<ul style="list-style-type: none"> <li>• Speech Enhancement</li> <li>• Speech Dereverberation</li> <li>• Speaker Separation</li> </ul>	
	<i>Research Engineer</i>	June 2015 - June 2016
	Aspiring Minds Assessment Pvt Limited	
	<ul style="list-style-type: none"> <li>• Natural Language Processing</li> <li>• Machine Learning</li> </ul>	
	<i>Research Intern</i>	May 2014 - July 2014
	University of Alberta, Edmonton, Alberta, Canada	
	<ul style="list-style-type: none"> <li>• Hardware simulation of gene regulatory networks (GRNs)</li> <li>• Simulink and Modelsim</li> </ul>	
	B.Tech Thesis	August 2014 - April 2015
	Indian Institute of Technology Guwahati, Assam, India	
	<ul style="list-style-type: none"> <li>• Speaker verification</li> </ul>	
<b>SKILLS&amp;TOOLS</b>	Python, C++, TensorFlow, PyTorch, Keras, MATLAB	
<b>SERVICES</b>	Reviewer:	
	<ul style="list-style-type: none"> <li>• <i>IEEE/ACM Transactions on Audio, Speech, and Language Processing</i></li> <li>• <i>AAAI Conference on Artificial Intelligence</i></li> </ul>	