

Krishna Subramani

CONTACT INFORMATION	subramani.krishna97@gmail.com https://krishnasubramani.web.illinois.edu/	
EDUCATION	University of Illinois Urbana-Champaign, USA Ph.D. Candidate in Electrical Engineering, GPA: 4.0/4.0 <ul style="list-style-type: none">Advisor: Prof. Paris Smaragdis Indian Institute of Technology Bombay, India B.Tech, M.Tech (Dual Degree) in Electrical Engineering, GPA: 9.24/10.0 <ul style="list-style-type: none">Thesis: Variational Parametric Models for Audio Synthesis, Advisor: Prof. Preeti RaoReceived the Undergraduate Research Award for outstanding research and thesis contributions	2020-2025 2015-2020
PUBLICATIONS	Accepted : <ul style="list-style-type: none">Krishna Subramani, Jean-Marc Valin, Umut Isik, Paris Smaragdis, Arvinth Krishnaswamy. “<i>End-to-end LPCNet: A Neural Vocoder With Fully-Differentiable LPC Estimation</i>”, Interspeech 2022Krishna Subramani, Paris Smaragdis, “<i>Point Cloud Audio Processing</i>”, IEEE Workshop on Applications of Signal Processing to Audio and Acoustics 2021, Best Paper AwardAn Zhao, Krishna Subramani, Paris Smaragdis, “<i>Optimizing Short-Time Fourier Transform Parameters via Gradient Descent</i>”, International Conference on Acoustics, Speech, and Signal Processing 2021Krishna Subramani, Preeti Rao, Alexandre D’Hooge. “<i>VaPar Synth - A Variational Parametric Model for Audio Synthesis</i>”, International Conference on Acoustics, Speech, and Signal Processing 2020Krishna Subramani, Srivatsan Sridhar, Rohit M. A., Preeti Rao. “<i>Energy-Weighted Multi-Band Novelty Functions for Onset Detection in Piano Music</i>”, National Conference on Communications 2018 Preprints : <ul style="list-style-type: none">HaDi Maboudi, Krishna Subramani, Hamid Soltanian-Zadeh, Shun-ichi Amari, Hideaki Shimazaki. “<i>Learning Complex Representations from Spatial Phase Statistics of Natural Scenes</i>”Krishna Subramani, Preeti Rao, “<i>HpRNet : Incorporating Residual Noise Modeling for Violin in a Variational Parametric Synthesizer</i>”	
RESEARCH EXPERIENCE	Research Assistant in the Audio Lab, UIUC Advised by Prof. Paris Smaragdis <ul style="list-style-type: none">Research on signal processing and machine learning for audio Applied Scientist Intern, AWS Palo Alto Advised by Jean-Marc Valin <ul style="list-style-type: none">Research on Machine Learning for Signal Processing Variational Parametric Models for Audio Synthesis, Master’s Thesis Advised by Prof. Preeti Rao	August 2020 to present May 2022 - ongoing, May 2021 to August 2021 January 2019 to July 2020
	Learning Complex Representation from Natural Scene Statistics, Kyoto University Research Intern Advised by Prof. Hideaki Shimazaki	May 2018 to October 2020
	Automatic Musical Assessment Systems, Music Technology Group Research Intern Advised by Prof. Xavier Serra	September 2018 to December 2018
MISCELLANEOUS ACHIEVEMENTS	<ul style="list-style-type: none">Received the Honors Mark for being in the top 3 of the class for Pattern Recognition, Real-time Audio Processing during my exchange semesterOne among 5 people across India to receive the Erasmus+ scholarship for a semester exchangeRanked 1320 (\approx 150,000) in the 2015 IIT-JEE Entrance ExaminationRecipient of the Kishore Vaidyanik Protsahan Yojna program (top 200 students in India) to pursue higher education at the Indian Institute of ScienceHave learnt Hindustani (North Indian) Classical Music upto Sangeet Praveen (\approx 5 years training)	