

# Debasish Ray Mohapatra

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<b>CONTACT INFORMATION</b>	ICICS x427 2366 Main Mall, Vancouver BC, Canada	+1-604-704-3741 <a href="mailto:debasishray@ece.ubc.ca">debasishray@ece.ubc.ca</a> <a href="#">Website</a>
<b>RESEARCH INTERESTS</b>	Articulatory Speech Synthesis, Computational Acoustic, Machine Learning, Signal Processing	
<b>EDUCATION</b>	<b>University of British Columbia</b> , Vancouver, Canada Ph.D., Electrical and Computer Engineering • Advisor: Dr. Sidney Fels, PEng	Jan 2025 (Expected)
	<b>University of British Columbia</b> , Vancouver, Canada M.A.Sc., Electrical and Computer Engineering • Advisor: Dr. Sidney Fels, PEng • Thesis: Talking Tube - A novel approach for vocal tract acoustic modelling using the finite-difference time-domain method • Grade: 83.1%	May 2021
	<b>Siksha 'O' Anusandhan University</b> , Bhubaneswar, India B.Tech., Electronics and Communication Engineering • Advisor: Sunita Samant, M.Tech • Project: Image segmentation based on mutual information • Grade: 91.4%	Aug 2013
<b>WORK EXPERIENCE</b>	<b>Tata Consultancy Service (TCS)</b> Software Test Engineer • Designed and executed test scenarios and test cases for the front-end (Web app) and back-end (ETL system) applications using ALM and JIRA test management tools. • Designed automated test scripts using HP UFT tool. • Participated in the functional and regression testings.	2014 - 2017
<b>RESEARCH EXPERIENCE</b>	<b>Human Communication Technologies Lab</b> , UBC Graduate Research Assistant Advisor: Dr. Sidney Fels, PEng	2018 - Present
<b>TEACHING EXPERIENCE</b>	<b>University of British Columbia</b> , Vancouver, Canada Teaching Assistant Human-Computer Interfaces in Engineering Design, CPEN 441 Introduction Computation in Engineering Design, APSC 160 Introduction to Microcomputers, CPEN 211  <b>University of British Columbia</b> , Vancouver, Canada Peer Tutor Computational Thinking, CPSC 100 Basic Algorithms and Data Structures, CPSC 221	

<b>PROJECTS</b>	<b>Talking Tube</b>	2018 - Present
	A novel low-dimensional articulatory speech synthesizer.	
	<b>Sound Stream</b>	2018
	An interactive user interface for producing speech sounds using an articulatory model (JASS).	
	Tools Used: JASS STK, Arduino, Slider sensors, Document camera	
<b>CONFERENCE PAPERS</b>	[4] <b>D. Mohapatra</b> , V. Zappi, S. Fels, “ <i>A comparative study of two-dimensional vocal tract acoustic modeling based on Finite-Difference Time-Domain methods</i> ”, ISSP 2020.	
	[3] <b>D. Mohapatra</b> , V. Zappi, S. Fels, “ <i>An Extended Two-Dimensional Vocal Tract Model for Fast Acoustic Simulation of Single-Axis Symmetric Three-Dimensional Tubes</i> ”, Interspeech 2019, pp. 3760-64.	
	[2] <b>D. Mohapatra</b> , S. Fels, “ <i>Limitations of source-filter coupling in phonation</i> ”, Canadian Acoustics, 2018, vol 46, No 4, pp. 60-61.	
	[1] P. Saha, <b>D. Mohapatra</b> , Praneeth SV, S. Fels, “ <i>Sound-Stream II: Towards Real-Time Gesture Controlled Articulatory Sound Synthesis</i> ”, Canadian Acoustics, 2018, vol 46, No 4, pp. 58-59.	
<b>AWARDS &amp; HONORS</b>	3. President’s Academic Excellence Initiative PhD Award, UBC	2021
	2. International Tuition Award, UBC	2018 - Present
	1. Certification of Appreciation for outstanding contribution, TCS	2015