



PROGRAM SCHEDULES





TIME	PARTICIPANT/SPEAKER	PRESENTATION
8:00-8:15am	Lady Cantor-Cutiva	Welcome
		Laryngeal Imaging
8:15-8:30am	Invited Speaker Guillermo Campos	Laryngeal Images - The Devil is in the Details
8:30-8:45am	Bernhard Jakubass	Comparison of Acoustic Signal Quality with respect to Glottal Closure between Old and Young Ex Vivo Sheep Larynges
8:45-9:00am	Charles Farbos De Luzan	Quantification of the Effects of Posterior Cricoid Reduction in Excised Canine Larynges
9:00-9:15am	Wilson Azure	Comparison of Two Surgical Methods to Simulate Unilateral Vocal Fold Paralysis in an Ex Vivo Rabbit Model
9:15-9:30am	Jennifer Vojtech	Effects of Age, Sex, and Parkinson's Disease on Kinematic and Acoustic Features of Phonatory Offset
9:30-9:45am	Chair of session - Luisa Fernanda Ángel	Q&A
9:45-10:00am		Coffee - Young investigator



TIME	PARTICIPANT/SPEAKER	PRESENTATION	
	Modelling and simulation of vocal physiology and biology		
10:00-10:15am	Molly Stewart	Investigating Blunt Force Trauma to the Larynx: The Role of Vertical Misalignment and VF Scarring	
10:15-10:30am	Jesús Parra	Discovering Underlying Physical Parameters from Daily Phonotrauma Index Distributions using Monte Carlo Simulations of a Low-Dimensional Voice Production Model	
10:30-10:45am	Elias Sundstrom	Fluid-Structure Interaction and Dynamic Mode Decomposition for quantification of intraglottal flow structures	
10:45-11:00am	Vinod Devaraj	Modelling of Amplitude Modulated Vocal Fry Glottal Area Waveforms using an Analysis-by-synthesis Approach	
11:00-11:15am	Reinhard Veltrup	Multi-modal Ex Vivo Setup for 3D Imaging of The Medial and Superior Vocal Fold Surfaces in Hemi-larynges	
11:15-11:30am	Russell Banks	Stimulating Conversation: Simulating Non-invasive Neuromodulation of Voice and Speech Muscles	
11:30-11:45am	Mohamed Serry	Physics of Phonation Offset: Towards Understanding RFF Observations	
11:45-12:00pm	Chair of session	Q&A	
12:00-1:15pm		Lunch	
		Workshop	
1:15pm-3:30pm	Lab Colombian Police	Forensic Voice Analysis	





TIME	PARTICIPANT/SPEAKER	PRESENTATION
8:00-8:15am	Lady Cantor-Cutiva	Announcements
		Voice Assessment
8:15-8:30am	Keynote Speaker Edwin Yiu	Alternative voice therapy methods for clinical practice
8:30-8:45am	Laura Toles	Relationships between Daily Speaking Voice Use and Personality in Singers with Healthy Voices
8:45-9:00am	Maria Del Carmen Dalmasso	Voz Smart
9:00-9:15am	Matti Groll	The Relationship between Voice Onset Time and Increases in Vocal Effort and Fundamental Frequency
9:15-9:30am	Christian Castro	Lombard Effect Retention after Noise Removal in Individuals with Phonotraumatic and Non-phonotraumatic Vocal Hyperfunction
9:30-9:45am	Pasquale Bottalico	Intelligibility of Dysphonic Speech in Primary Classrooms
9:45-10:00am	Chair of session	Q&A
10:00-10:15am		Coffee - Young investigator





TIME	PARTICIPANT/SPEAKER	PRESENTATION
	Machine	Learning in Voice and Speech Research
10:15-10:30am	Invited Speaker Hamzeh Ghasemzadeh	A Machine-learning Approach to Finding Acoustic Signatures of Voice and Motor-speech Disorders during Connected Speech
10:30-10:45am	Carlos Alberto Calvache Mora	Analysis and Comparison of Different Biomechanical Models of Vocal Production
10:45-11:00am	Yixiang Gao	Classification of Vocal Fatigue using Neck sEMG with Leave-One-Subject-Out Testing
11:00-11:15am	Yixiang Gao	Explore Voice Production Variability through Neck sEMG Clustering - Challenge for Accurate Labeling of Vocal Fatigue
11:15-11:30am	Rodrigo Maximiliano Jerez	Clinical Voice Box: Desarrollo de una App para Dispositivos Móviles
11:30-11:45am	Chair of session - Pasquale Bottalico	Q&A
11:45-1:15pm		Lunch





TIME	PARTICIPANT/SPEAKER	PRESENTATION
	Covid-19 and V	oice and Speech Research - Voice Assessment
1:15-1:30pm	Invited Speaker Jeff Searl	Covid-19: Impact on SLP Clinical Activities and Patient Experiences
1:30-1:45pm	Lady Cantor-Cutiva	Effect of the Recording Instrument on Detecting Changes on Voice Acoustic Parameters after SOVT
1:45-2:00pm	Defne Abur	Impaired Auditory Discrimination and Sensorimotor Integration in Hyperfunctional Voice Disorders
2:00-2:15pm	Ian Howard	Automatic Identification of Voice Pathology using Deep Neural Networks
2:15-2:30pm	Miriam Van Mersbergen	Glottal Parameters Contributing to Properties of Particulate Emission during Speech, Singing, and Breathing
2:30-2:45pm	Chair of session - Keiko Ishikawa	Q&A
2:45-3:30pm	Organizing Committee	Town hall Meeting
3:30pm	Lady Cantor-Cutiva	Cultural Activity - Colombian Gold Museum (External Link)





TIME	PARTICIPANT/SPEAKER	PRESENTATION
8:00-8:15am	Lady Cantor-Cutiva	Welcome
	Modelling an	d simulation of vocal physiology and biology
8:15-8:30am	Keynote Speaker Jan G. Švec	Kinematic Mucosal Wave Model of the Vocal Folds for Simulating Kymographic Images
8:30-8:45am	Sridhar Bulusu	Convolutional Neural Networks for Extracting Kinematic Vocal Fold Parameters from Videokymograms
8:45-9:00am	Sheng Li	Effects of Vertical Glottal Duct Length on Intraglottal Pressures in the Uniform and Convergent Glottis
9:00-9:15am	Rodrigo Manríquez	Calibration Uncertainty of Impedance-based Inverse Filtering from Neck Surface Acceleration
9:15-9:30am	Zheng Li	PhotoSim: A Patient-Specific Computational Modeling Suite for Phonosurgery
9:30-9:45am	Sebastian Falk	Simvoice – Parameter Study on Glottal Insufficiency and Aperiodic Vocal Fold Oscillations
9:45-10:00am	Stefan Schoder	Simvoice – Visualization of Aeroacoustic Sources in the Human Voice Production Process
10:00-10:15am	Chair of session - Luisa Fernanda Ángel	Q&A
10:15-10:30am		Coffee - Young investigator





TIME	PARTICIPANT/SPEAKER	PRESENTATION
	Machine	Learning and engineering applications
10:30-10:45am	Keynote Speaker Dimitar Delyiski	Precision Assessment of Dysphonic Speech: From Vocal Fold Physiology to Perception
10:45-11:00am	Ahmed Yousef	Automated Detection and Segmentation of Glottal Area using Deep-Learning Neural Networks in High-Speed Videoendoscopy during Connected Speech
11:00-11:15am	Gregor Peters	Viscoelasticity of Human Laryngeal Mucus from the Vocal Folds
11:15-11:30am	Juan Cortés	Relationships between the Neck-surface Acceleration Parameters of the Daily Phonotrauma Index and Glottal Aerodynamic Measures in Vocally Healthy Females
11:30-11:45am	Emiro Ibarra	A Machine Learning Framework for Estimating Subglottal Pressure During Running Speech from Glottal Airflow Measures
11:45-12:00pm	Chair of session	Q&A
12:00-1:15pm		Lunch





TIME	PARTICIPANT/SPEAKER	PRESENTATION
		e-Health and m-Health
1:15-1:30pm	Keynote Speaker Adrian Castillo- Allendes	Challenges of voice therapy during the Covid-19 pandemic
1:30-1:45pm	Daryush Mehta	Ambulatory Monitoring of the Lombard Effect During the Daily Life of Patients with Hyperfunctional Voice Disorders
1:45-2:00pm	Elizabeth Grillo	A Nonrandomized Trial for Student Teachers of an In-person and Telepractice Global Voice Prevention and Therapy Model with Estill Voice Training assessed by the VoiceEvalU8 app
2:00-2:15pm	Hasini Weerathunge	Accuracy of Acoustic Measures of Voice via Telepractice Videoconferencing Platforms
2:15-2:30pm	Katherine Marks	Psychometric Analyses of Ecological Vocal Effort Ratings during Ambulatory Voice Monitoring
2:30-2:45pm	Adrian Castillo-Allendes	Posture and Phonation; Suprahyoid, Infrahyoid, and Respiratory Muscle Activity during Body Position Modifications
2:45-3:00pm	Kimberly Dahl	Reliability of Expert Auditory-perceptual Evaluations conducted via Telepractice Platforms
3:00-3:15pm	Keiko Ishikawa	Development of the Standardized Patient Training for Remote Voice Evaluation
3:15-3:30pm	Chair of session - Gonzalo Inostroza	Q&A
3:30-4:00pm		Coffee - Young investigator





TIME	PARTICIPANT/SPEAKER	PRESENTATION
		Poster Session
	Gonzalo Inostroza-Moreno	Case Presentation: Rehabilitation of Bilateral Cordal Paralysis, Secondary to Prolonged Intubation in a Patient with Sars-cov-2, with left Posterior Cordectomy using Laser Technique
	Gbenga Omotara	Using Machine Learning Algorithms in Identifying Speech Phonemes
4:00-4:30pm	Patrick Schlegel	Asymmetric Superior Laryngeal Nerve Stimulation: Cepstral Peak Prominence, Glottis Symmetry and Perturbation
	Ángela Patricia Atará-Piraquive	Effect on Vocal Doses of a Workplace Vocal Health Promotion Program
	Christian Castro	Concentration of Hydroxide Peroxide in Exhaled Breath Condensate after Phonotrauma: A Noninvasive Technique for Measure Vocal Inflammation
	Didier Demolin	The glottal vowels of nasa yuwe





TIME	PARTICIPANT/SPEAKER	PRESENTATION
		Poster Session
	Matti Groll	Evaluating the Relationship between Relative Fundamental Frequency and the End of Vocal Fold Collision in Voicing Offset
	Divya Bhaskaran	Initial Data on Long-Term Effects of Laryngeal Vibro-Tactile Stimulation in People with Spasmodic Dysphonia
	Keiko Ishikawa	Feasibility of Landmark-based Approaches for Monitoring Speech Production Changes Among Patients with Muscle Tension Dysphonia: A Comparative Study
4:30-5:00pm	Danilo Leite	Machine learning classifiers: study to categorize healthy and pathological voices
	Ip Carman	Applying Ultrasound Imaging to Visualize Laryngeal Structures and Functions in the Pediatric Population
	Takeshi Ikuma	Effect of Voice Bifurcations on Acoustic and Endoscopic Measures: Case Studies
	Jenny Cárdenas	Herramientas Auto-informadas Aplicadas en Pacientes con Parálisis Unilateral de Cuerdas Vocales: Una Revisión Sistemática de la Década 2010-2020





TIME	PARTICIPANT/SPEAKER	PRESENTATION
8:00-8:15am	Lady Cantor-Cutiva	Announcements
	Modelling an	d simulation of vocal physiology and biology
8:15-8:30am	Keynote Speaker Maria Eugenia Dajer	
8:30-8:45am	Mohsen Motie-Shirazi	Influence of a Posterior Glottal Opening on Dissipated Collision Power: Synthetic Self-oscillating Vocal Fold Investigations
8:45-9:00am	Gabriel Alejandro Alzamendi	Investigating Antagonistic Muscle Control in Non-phonotraumatic Vocal Hyperfunction Using a Triangular Body-cover Model of the Vocal Folds
9:00-9:15am	Mohammadreza Movahhedi	A Computational Study of the Effect of Unilateral Vocal Fold Paralysis and Type I Medialization on Voice Production
9:15-9:30am	Xiaojian Wang	Testing the Validity of the Quasi-steady Assumption in Vocal Fold Vibration
9:30-9:45am	Siddarth Khosla	Acoustics and Aerodynamics in Glottal vs Infraglottal Medialization
9:45-10:00am	Marion Semmler	Aerodynamic Analysis of the Inspiration for A Unilateral Vocal Folds Paralysis in a Synthetic Larynx Model
10:00-10:15am	Chair of session - Luisa Fernanda Ángel	Q&A
10:15-10:30am		Coffee - Young investigator





TIME	PARTICIPANT/SPEAKER	PRESENTATION
	Machine	E Learning in Voice and Speech Research
10:30-10:45am	Keynote Speaker Maria Dietrich	Accounting for Personality traits in the Classification of Vocal Fatigue using sEMG
10:45-11:00am	Jarrad Van Stan	Use of the Daily Phonotrauma Index (DPI) to Quantify Treatment-related Changes in the Daily Voice Use of Patients with Phonotrauma
11:00-11:15am	Charles Farbos De Luzan	Using Modal Decomposition to Identify Coherent Structures in the Intraglottal Flow Region
11:15-11:30am	Chuayo Feng	Automated Intra-speaker Voice Quality Classification in Connected Speech: an X-vector based Deep Learning Approach
11:30-11:45am	Mark Berardi	Automatic Segmentation of Relative Fundamental Frequency from Continuous Speech
11:45-12:00pm	Chair of session - Miriam van Mersbergen	Q&A
12:00-1:15pm		Lunch





TIME	SPEAKER/PARTICIPANT	PRESENTATION	
Laryngeal Imaging			
1:15-1:30pm	Keynote Speaker Cara E. Stepp		
1:30-1:45pm	Ingo Titze	Quantitative Laryngology Under a Microscope	
1:45-2:00pm	Andreas Kist	OpenHSV: An Open Platform for Laryngeal High-speed Videoendoscopy	
2:00-2:15pm	Daryush Mehta	3D Laryngeal Imaging Integrating Parallel Optical Coherence Tomography with Videostroboscopy	
2:15-2:30pm	Hamzeh Ghasemzadeh	Spatial Segmentation of High-speed Videoendoscopy with Sub-pixel Resolution using Adaptive Thresholding and Double Curve Fitting	
2:30-2:45pm	Jennifer Vojtech	Acoustic Identification of the Voicing Boundary during Intervocalic Offsets and Onsets based on Vocal Fold Vibratory Measures	
2:45-3:00pm	Daryush Mehta	In Vivo Measurement of Intraglottal, Subglottal, and Vocal Fold Collision Pressures In A Hemilaryngectomy Patient	
3:00-3:15pm	Hamzeh Ghasemzadeh	Indirect Spatial Calibration of the Horizontal Plane of Endoscopic Laryngeal Images: How to Do It and What to look for	
3:15-3:30pm	Chair of session - Russell Banks	Q&A	
3:30-4:00pm		Coffee - Young investigator	





TIME	SPEAKER/PARTICIPANT	PRESENTATION	
Social and Cultural Activities			
4:00-4:30pm	Organizing Committee	Student Board - AQL meeting	
4:30-5:30pm	Lady Cantor-Cutiva	Cultural Activity - Virtual Tour (external link)	
5:30pm	Lady Cantor-Cutiva	Adjourn	

