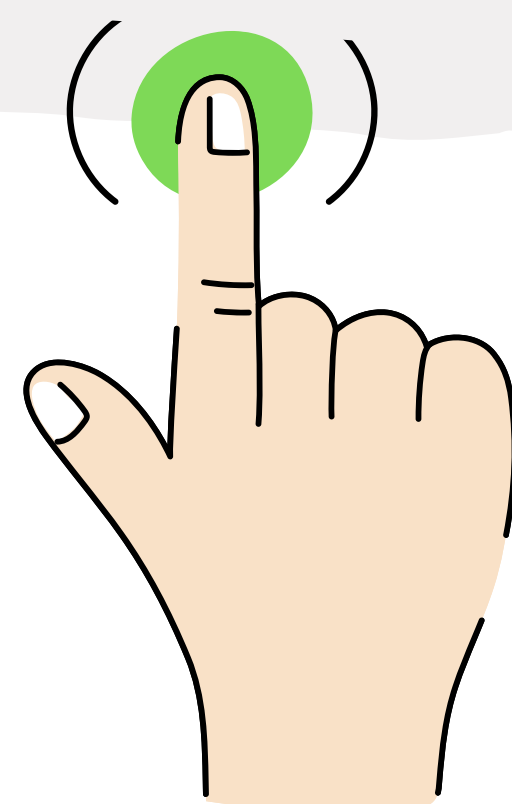




**The 14th International Conference on
Advances in Quantitative Laryngology,
Voice and Speech Research**



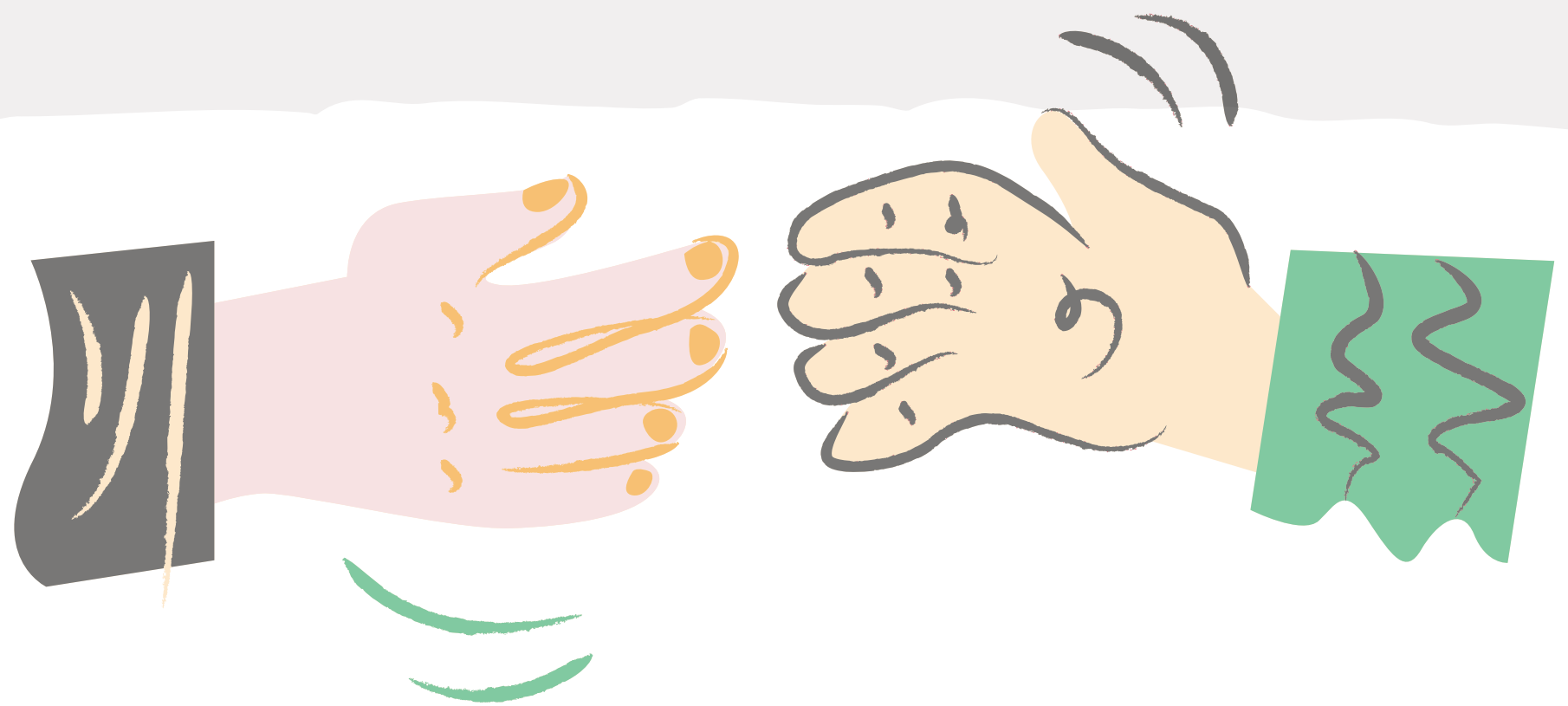
**JUNE 7-10, 2021
BOGOTÁ, COLOMBIA
ONLINE CONFERENCE**



PROGRAM

¡WELCOME TO AQL 2021!

The 14th International Conference on Advances in Quantitative Laryngology, Voice and Speech Research (AQL) provides a unique opportunity to share knowledge and updates on the current quantitative research in voice and speech. This event has expanded internationally in Europe and the United States, and this version 2021 will take place for the first time in Latin-America, specifically in Bogotá, Colombia.



Researchers from different countries will share their research on the following topics: 1) eHealth-mHealth, 2) Imaging, 3) Machine learning and engineering applications, 4) Modeling and simulation of vocal physiology and biology, and 5) Voice assessment

MEET OUR KEYNOTE SPEAKERS!

CARA E. STEPP, PH.D.
BOSTON UNIVERSITY, USA



Cara E. Stepp is the director of the STEPP LAB for Sensorimotor Rehabilitation Engineering at Boston University and has been recognized as a past NSF CAREER Award and PECASE recipient and a past Peter Paul Career Development Professor with multiple active federal grants supporting her research.

She specializes in voice and speech disorders, integrating speech science, computer science, and engineering to improve diagnosis and rehabilitation of communication-based challenges. Her research uses engineering tools to rehabilitate disordered sensorimotor function of voice and speech.

MEET OUR KEYNOTE SPEAKERS!

DIMITAR DELIYSKI, PH.D.
MICHIGAN STATE UNIVERSITY, USA

Dimitar Deliyski is Professor at Michigan State University. He holds the title of MSU Foundation Professor and serves as Chair of the Department of Communicative Sciences and Disorders. Since the mid-1980s, he is fascinated with applying his computer-engineering and signal-processing background in discovering the mysteries of voice production and helping people with voice disorders



His research focuses on studying the vocal fold vibratory abnormalities causing dysphonia through developing quantitative methods based on high-speed videoendoscopy and other instrumental techniques. In the 1990s, he served as the Chief Scientist of Kay Elemetrics Corp (now Pentax Medical), where he played major role in the creation of voice and speech instrumentation for acoustic analysis and laryngeal imaging, widely used to date in clinical voice assessment. Dr. Deliyski is the recipient of the 2010 Manuel Garcia Prize and the 2017 Quintana Research Award.

MEET OUR KEYNOTE SPEAKERS!

EDWIN YIU, PH.D.

THE UNIVERSITY OF HONG KONG



Dr Yiu is Professor of Speech Pathology at The University of Hong Kong. His research interest is in the area of voice science and disorders. He obtained his speech pathology qualification in Melbourne, Australia, and his PhD from the University of Queensland, Australia.

After working in two Australian Universities he returned to Hong Kong and has worked at The University of Hong Kong since 1996, contributing to the development of the academic program in Hong Kong. His most recent research includes the use of acupuncture and whole-body vibration in treating voice disorders.

MEET OUR KEYNOTE SPEAKERS!

JAN G. ŠVEC, PH.D.

PALACKÝ UNIVERSITY, CZECH REPUBLIC

Jan G. Svec, Ph.D. is a Czech physicist performing basic research in production of human voice. He has worked as a research scientist at the Center for Communication Disorders, Medical Healthcom, Ltd. in Prague (Czech Republic), at the National Center for Voice and Speech in Denver (USA), and at the University of Groningen in the Netherlands.



Currently he is at the Palacky University Olomouc (Czech Republic) and also serves as an associate research scientist at The Voice and Hearing Center in Prague (Czech Republic). His research interests include acoustics, biomechanics, voice measurement methodology, and singing voice

MEET OUR KEYNOTE SPEAKERS!

MARIA DIETRICH, PH.D.

UNIVERSITÄTSKLINIKUM BONN, GERMANY



Dr. Maria Dietrich is the Research Group Leader of the Vocal Control and Vocal Well-Being (VoCoWell) Lab at University Hospital Bonn in Germany. She is a speech-language pathologist (CCC-SLP).

Her previous studies focused on how individuals differ in their vocal control and vocal behavior as a function of stressor exposure and personality, and the resulting implications for risk for voice disorders such as muscle tension dysphonia. Embedded in this focus, she also studied the classification of extralaryngeal muscular patterns to better understand vocal fatigue.

MEET OUR KEYNOTE SPEAKERS!

MARIA EUGENIA DAJER, PH.D.

FEDERAL UNIVERSITY OF TECHNOLOGY, BRAZIL



Maria Eugenia Dajer is and adjunct professor at Federal University of Technology of Parana, Brazil.

She got her bachelor's degree in Fonoaudiología from Universidad Nacional de Córdoba (1994). She also got a Master's degree em Bioengenharia from Interunidades em Bioengenharia EESC/IQSC/FMRP (2006) and doctorate at Doutorado em Engenharia Elétrica from Escola de Engenharia de São Carlos -USP (2010). She has experience in Speech Therapy, focusing on voice analysis, nonlinear analysis and voice disorders.

INVITED SPEAKERS PRE-CONFERENCE

JEFF SEARL

MICHIGAN STATE UNIVERSITY



Jeff Searl is a professor of the Department of Communicative Sciences & Disorders at Michigan State University.

Searl's primary areas of interest are communication after treatment for head and neck cancer, laryngeal voice disorders, and articulatory changes associated with neurodegenerative diseases.

INVITED SPEAKERS PRE-CONFERENCE

PHILIP C. DOYLE

STANFORD UNIVERSITY SCHOOL OF MEDICINE



Philip C. Doyle is an Adjunct professor at the Stanford University School of Medicine Otolaryngology – Head and Neck Surgery (Laryngology Division). His research has focused on laryngeal cancer, laryngeal tumors, laryngectomy and voice.

INVITED SPEAKERS PRE-CONFERENCE

ANN KEARNEY

**LEAD SLP IN THE OTOLARYNGOLOGY DEPARTMENT,
DIVISION OF VOICE**



Ann Kearney is the lead SLP in the Otolaryngology Department, Division of Voice at the Stanford University.

Dr. Kearney has 30 years of experience in major medical centers, including Brigham and Women's Hospital (a Harvard Medical School hospital), and Tufts Medical Center (San Francisco). She is board Certified in Swallowing Disorders (BCS-S), and has special interests including Buteyko Breathing, Myofascial Release, EI-PVFM (dysfunctional breathing for athletes), and Obstructive Sleep Apnea.

INVITED SPEAKERS PRE-CONFERENCE

HAMZEH GHASEMZADEH
MICHIGAN STATE UNIVERSITY

Dr. Ghasemzadeh is a Postdoctoral Research Associate at the Voice and Speech Lab at Michigan State University. He got his dual Ph.D. degree in “Communicative Sciences and Disorders” and “Computational Mathematics Science and Engineering” from MSU.



Before joining MSU, he was an adjunct professor at the Department of Electrical Engineering at Islamic Azad University (Iran), where he was researching in the area of signal processing, statistical pattern recognition, and machine learning. Dr. Ghasemzadeh is the recipient of the 2019 Sataloff Award for Young Investigators.

INVITED SPEAKERS PRE-CONFERENCE

ADRIÁN CASTILLO
MICHIGAN STATE UNIVERSITY



Adrián Castillo is a Ph.D. student from the Department of Communicative Sciences & Disorders at Michigan State University.

He received his M.S. in Speech-Language Pathology and Hearing and M.Sc. in Clinical Exercise Physiology from Universidad Mayor (Santiago, Chile). His clinical experience includes working with patients with voice disorders, professional voice users, and people with Parkinson's disease and his research interest is voice and upper airway disorders.

LOCAL ORGANIZING COMMITTEE

LADY CATHERINE CANTOR CUTIVA CHAIR OF AQL 2021

Lady Catherine Cantor Cutiva is a professor at Universidad Nacional de Colombia and at Universidad Manuela Beltrán (Bogotá, Colombia). She has a postdoc in Communication Sciences and Disorders from Michigan State University, her doctorate degree is in Health Sciences from Erasmus University Medical Center Rotterdam.



LUISA FERNANDA ÁNGEL GORDILLO CO-CHAIR OF AQL 2021

Luisa Fernanda is Speech-Language pathologist from Universidad Nacional de Colombia. She also has a Master's degree in disability and social inclusión from the same University.



HÉDRICK YOSEFT ROBLES VEGA CO-CHAIR OF AQL 2021

Hédrick Yoseft Robles Vega is Biomedical Engineer with a clinical engineering specialization and a master on biomedical engineering at the National University of Entre Ríos.



ELISA LANDÁZURI COCINERO CO-CHAIR OF AQL 2021

Elisa Landázuri is a speech language pathologist from the Corporación Universitaria Iberoamericana, Bogotá, with a master's in education from Universidad Externado de Colombia.



SCIENTIFIC COMMITTEE

PASQUALE BOTTALICO, PHD
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN.



Pasquale Bottalico is and Assistant professor at the University of Illinois at Urbana-Champaign. He earned his PhD in Metrology, studying acoustics with particular attention to the uncertainty of measurements and the techniques of the professional talkers and singers. Prof. Bottalico is also a professional singer, and has performed with prestigious directors such as Rafael Frühbeck De Burgos and Yuri Ahronovitch.

RUSSELL BANKS, PHD
MASSACHUSETTS GENERAL HOSPITAL - BOSTON

Russell Banks is a postdoc at Massachusetts General Hospital (Boston MA, USA) studying the effect of brain injury on motor control and the potential use of neuromodulation (TMS and tDCS) to rehabilitate speech and language. He got his Bachelor of Science from the Department of Speech and Hearing Sciences at the National Center for Voice and Speech in Salt Lake City, Utah.



MARYAM NAGHIBOLHOSSEINI, PHD
MICHIGAN STATE UNIVERSITY

Maryam Naghibolhosseini is an Assistant Professor in the department of Communicative Sciences and Disorders and the director of Analysis of Voice and Hearing Laboratory (AVAH Lab) in Michigan State University. She employs computational mathematics to perform biomechanical modeling of voice production and human auditory system.

She obtained her PhD from the Department of Speech Language-Hearing Sciences at the Graduate Center of the City University of New York. She was the recipient of the 2020 Early Career Contributions in Research (ECCR) Award of the American Speech-Language-Hearing Association (ASHA).

CARLOS ALBERTO CALVACHE
MSc – VOLOGY CENTER

Carlos Calvache is a Colombian SLP, Vocologist of Universidad de Chile, and M.Sc. in Communication - Education of Universidad Distrital Francisco de Paula Santander. Currently is Ph.D. Student in Applied Sciences Engineering of Universidad Militar Nueva Granada. He has worked as an undergraduate and postgraduate professor in SPL and Communication programs in Colombia and other countries of Latin America. Carlos is the Founder and Director of Vology Center®, the first center of vology in Colombia and Latin America.



¡IMPORTANT DATES!

MARCH 15, 2021

Notification of accepted short abstracts (250 words)

MAY 1, 2021

You will have to correct and adjust your abstract to our 1-page template in case it is accepted (we will send the template by email to the authors).

FEBRUARY 28, 2021

Registration opening

APRIL 15, 2021

Early bird registration deadline

APRIL 16, 2021

Regular registration

JUNE 7-10, 2021

Conference

TOPICS OF THE CONFERENCE

Machine Learning and Voice and Speech Research

COVID-19 and Voice and Speech Research

PRE-CONFERENCE DAYS

CONFERENCE DAYS

eHealth-mHealth

Remote Voice Assessment and Treatment (telehealth+monitoring)

Wearable devices, mobile apps and human-computer interaction for vocal health

Imaging

Quantitative Measurement in Laryngology

Laryngeal imaging

Measurement and Imaging Devices

Machine learning and engineering applications

Machine learning and artificial intelligence in voice processing, recognition and synthesis

Modeling and simulation of vocal physiology and biology.

Tissue Engineering and biomechanics of vocal folds and laryngeal musculature

Neural control of phonation and singing

Voice assessment

Acoustic and perceptual voice and speech analysis

Voice measurements and Aerodynamic Analysis

REGISTRATION

	Early bird registration (April 15, 2021)	Regular registration (April 15, 2021)
Trainees (Students, PhD, fellows, postdocs)	US\$125	
Student ID required	Student fee will be paid by NIH grant funding	
Full Registration	US\$100	US\$150



CONFERENCE TYPE

Although we would love to have you all in Bogotá (Colombia), due to the COVID-19 pandemic, we regret to inform that our conference will be held online (you still can come and visit us in Bogotá, Colombia, but all the academic activities will be online).

However, we are working hard to have a very interactive online conference with avatars that will allow you to interact with colleagues and speakers (more details will be provided soon).

