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**Curriculum Vitae**  
**Marco A. Guzman, PhD**

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Speech-Language Pathologist, classical singer and voice trainer.

PhD in Speech Technique and Vocology, University of Tampere, Finland.

Voice specialist (Vocology certification). University of Iowa. USA.

Assistant professor, Department of Communication Sciences and Disorders, Universidad de los Andes.

Adjunct professor, University of Tampere, Finland.

Clinician (Voice pathologist and trainer) in Las Condes Clinic, Department of Otolaryngology.

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**Personal information**

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Name	Marco Guzmán
National Identity Card	13241915-9
Nationality	Chilean
Profession	Speech and Language Pathologist
E-mail:	<a href="mailto:guzmann.marcoa@gmail.com">guzmann.marcoa@gmail.com</a> , <a href="mailto:mguzman@uandes.cl">mguzman@uandes.cl</a>
Web Site	<a href="http://www.vozprofesional.cl">www.vozprofesional.cl</a>

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**Education**

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2011-2016	University of Tampere, Finland. Doctor of Philosophy (PhD) in Speech Technique and Vocology.
2010	University of Iowa and National Center for Voice and Speech. USA. Summer Vocology Institute (Certification in vocology).
2009	Lansing Community College, Department of English. Michigan, USA. English student.
2004-2007	Bachelor in Music (Voice). Catholic University of Chile.
1997-2002	University of Chile. Department of Communication Sciences. Licenciatura in Speech-Language Pathology

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**Employment**

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2018 to date	Associate professor at the Universidad de los Andes, Department of Communication Sciences and Disorders. Chile.
2018 to date	Adjunct professor, University of Tampere, Finland.
2009-2017	Assistant Professor at the University of Chile, Department of Communication Sciences and Disorders.
2007-to date	Voice pathologist at the Las Condes Clinic, Department of Otolaryngology, Chile.
2008	Lecturer at the Andres Bello National University, School of Speech and Hearing Sciences, Chile.
2007-2008	Lecturer at the Catholic University of Chile, School of Theater.
2003-2009	Lecturer at the Mayor University, School of Speech and Hearing Sciences, Chile.
2002-2008	Instructor at the University of Chile, Department of Communication Sciences and Disorders.
2001	Research and teaching assistant in Department of Communication Sciences and Disorders, University of Chile.

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**Present position**

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Associate professor at the Universidad de los Andes, Department of Communication Sciences and Disorders. Chile,

Adjunct professor, University of Tampere, Finland.

Voice pathologist at the Las Condes Clinic, Department of Otolaryngology. Chile.

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## Publications in journals

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- **Guzman M**, Angadi V, Croake D, Catalan C, Romero A, Acuña G, Quezada C, Andreatta R, Stemple J. Does a Systematic Vocal Exercise Program Enhance the Physiologic Range of Voice Production in Classical Singing Graduate-Level Students? *Journal of Speech, Language and Hearing Research*. In press.
- **Guzman M**, Bertucci T, Pacheco C, Leiva F, Quintana F, Ansaldi R, Quezada C, Muñoz D. Effectiveness of a physiologic voice therapy program based on different semiocluded vocal tract exercises in subjects with behavioral dysphonia: a randomized controlled trial. *Journal of Communication Disorders*. Accepted.
- **Guzman M**, Castro C, Acevedo K, Moran C, Espinoza V, Quezada C. How do tube diameter and vocal tract configuration affect oral pressure characteristics caused by bubbling during water resistance therapy? *Journal of Voice*. In press.
- Saldias, M, Laukkanen A-M, **Guzman M**, Miranda G, Stoney J, Alku P, Sundberg J. The vocal tract in loud twang-like singing while producing high and low pitches. *Journal of Voice*. In press.
- Saldias M, **Guzman M**, Lizana J, Sandoval G, Vergara C, Quezada C. Water Resistance Therapy as Vocal Warm-Up Method in Contemporary Commercial Music Singers. *Folia Phoniatica et Logopaedica*. 2020;72:1-12.
- Contreras F, Gonzalez N, Viveros M, **Guzmán M**. Cross-cultural adaptation of the Chilean Version of the Voice-Related Quality of Life (V-RQOL). *Codas*. 2019;31(3):e20180213.
- Calvache C, **Guzman M**. Revisión sistemática de la literatura sobre medidas aerodinámicas de la fonación. *Revista de Logopedia Foniatría Audiología*. 2018; 38:130-137.
- Fisancho K, Salfate L, Lizana K, **Guzman M**, Quezada C. Immediate effect of semiocluded ventilation mask on subjects diagnosed with functional dysphonia and subjects with normal voice. *Journal of Voice*. 2020;34:398-409.
- Calvache C, **Guzman M**, Bobadilla M, Bortnem C. Variation on Vocal Economy After Different Semiocluded Vocal Tract Exercises in Subjects With Normal Voice and Dysphonia. *Journal of Voice*. In press.
- **Guzman M**, Acevedo K, Leiva F, Ortiz V, Hormazabal N, Quezada C. Aerodynamic characteristics in growl voice and reinforced falsetto in metal singing. *Journal of Voice*. 2019; 33:803.e7-803.e13.
- **Guzman M**, Saldivar P, Perez R, Muñoz D. Aerodynamic, electroglottographic, and acoustic outcomes after tube phonation in water in elderly. *Folia Phoniatica et Logopaedica*. 2018;70:149-155.

- Saldias M, **Guzman M**, Miranda G, Laukkanen A-M. A computerized tomography study of vocal tract setting in hyperfunctional dysphonia and in belting. *Journal of Voice*. 2019;33:412-419.
- **Guzman M**, Miranda G, Muñoz D, Jara R, Pino J, Olavarria C, Madrid S. Configuration of vocal folds during and after tube phonation in subjects with voice disorders: A computerized tomographic study. *Journal of Laryngology and Voice*. 2016;6:36-43.
- **Guzman M**, Acuña G, Pacheco F, Peralta F, Romero C, Vergara C, Quezada C. The impact of double source of vibration semioccluded voice exercises on objective and subjective outcomes in subjects with voice complaints. *Journal of Voice*. 2018; 32:770.e1-770.e9.
- Portillo P, Rojas S, **Guzmán M**, Quezada C. Comparison of effects produced by physiologic versus traditional vocal warm-up in contemporary commercial music singers. *Journal of Voice*. 2018;32:200-208.
- **Guzman M**, Jara R, Olavarria C, Caceres P, Escuti G, Medina F, Medina L, Madrid S, Muñoz D, Laukkanen A-M. Efficacy of water resistance therapy in subjects diagnosed with behavioral dysphonia: a randomized-controlled trial. *Journal of Voice*. 2017;31:385.e1-385.e10.
- Salfate L, **Guzman M**. Physiological approach of voice rehabilitation in vocal nodules: a single case study. *Revista digital EOS Peru*. 2016; 7: 28-41.
- **Guzman M**, Miranda G, Olavarria C, Madrid S, Muñoz D, Leiva M, Lopez L, Bortmen C. Computerized tomography measures during and after artificial lengthening of the vocal tract in subjects with voice disorders. *Journal of Voice*. 2017; 31:124.e1-124.e10.
- **Guzman M**, Ortega A, Olavarría C, Muñoz D, Cortez P, Azocar MJ, Cayuleo D, Quintana F, Silva C. Comparison of supraglottic activity and spectral slope between theater actors and vocally untrained subjects. *Journal of Voice*. 2016; 30: 767.e1-767.e8.
- **Guzman M**, Laukkanen A-M, Traser L, Geneid A, Richter B, Muñoz D, Echternach M. The Influence of Water Resistance Therapy on Vocal Fold Vibration: A High Speed Digital Imaging Study. *Logopedics Phoniatrics Vocology*. .2017; 42:99-107.
- **Guzman M**, Castro C, Madrid S, Olavarría C, Leiva M, Muñoz D, Jaramillo E, Laukkanen A-M. Air pressure and contact quotient measures during different semi-occluded postures in subjects with different voice conditions. *Journal of Voice*. 2016;30: 759.e1-759.e10.
- **Guzman M**, Calvache C, Romero L, Muñoz D, Olavarría C, Madrid S, Leiva M, Pino J, Bortnem C. Do different semi-occluded voice exercises affect vocal fold adduction differently in subjects diagnosed with hyperfunctional dysphonia? *Folia Phoniatrica et Logopaedica*. 2015; 67: 68-75.

- Master S, **Guzman M**, Kelly A. Perceptual and acoustic analysis of Brazilian Actresses' voices. *Revista digital EOS Peru*. 2015; 6: 10-20.
- Hampala V, Laukkanen A-M, **Guzman M**, Horáček J, Švec J. Vocal fold adjustment caused by phonation into a tube: A Double Case Study Using Computed Tomography. *Journal of Voice*. 2015;29:733-742.
- **Guzman M**, Lanas A, Olavarria C, Azocar M-J, Muñoz D, Madrid S, Monsalve S, Martinez F, Vargas S, Cortez P, Mayerhoff R. Laryngoscopic and spectral analysis of laryngeal and pharyngeal configuration in non-classical singing styles. *Journal of Voice*. 2015; 29:130.e21-28.
- Master S, **Guzman M**, Azocar MJ, Muñoz D, Bortnem C. How do laryngeal and respiratory functions contribute to differentiate actors/actresses and untrained voices? *Journal of Voice*. *Journal of Voice*. 2015;29:333-45.
- **Guzman M**, Muñoz D, Vivero M, Gonzalez C, Marin N, Ramirez M, Rivera M T, Vidal C, Gerhard J. Acoustic Markers to Differentiate Gender in Prepubescent Children's Speaking and Singing Voice. *International Journal of Pediatric Otorhinolaryngology*. 2014; 78:1592-1598.
- **Guzman M**, Barros M, Espinoza F, Herrera A, Muñoz D, Lloyd A. Laryngoscopic, Acoustic Perceptual, and Functional Assessment of Voice in Rock Singers. *Folia Phoniatrica et Logopaedica*. 2013;65:78-86.
- **Guzman M**, Rubin A, Cox P, Landini F, Jackson-Menaldi C. Neuromuscular Electrical Stimulation of The Cricothyroid Muscle in Patients with Suspected Superior Laryngeal Nerve Weakness. *Journal of Voice*. 2014;28:216-225.
- Mazzetto K, Master S, **Guzman M**, Bortnem C. Differences in Acoustic and Perceptual Parameters Between Elderly and Young Women at Habitual and high Intensity. *Acta Otorrinolaringológica Española*. 2014;65:76-84.
- Mayerhoff R, **Guzman M**, Jackson-Menaldi C, Muñoz D, Dowdall J, Maki A, Johns M, Smith L, Rubin A. Analysis of Supraglottic Activity During Vocalization in Healthy Singers. *Laryngoscope*. 2014;124:504-509.
- **Guzman M**, Castro C, Testart A, Muñoz D, Gerhard J. Laryngeal and Pharyngeal Activity During Semi-occluded Vocal Tract Postures in Subjects Diagnosed With Hyperfunctional Dysphonia. *Journal of Voice*. 2013;27:709-716.
- Master S, **Guzman M**, Dowdall J. Vocal Economy in Vocally Trained and Untrained Female Subjects. *Journal of Voice*. 2013;27:698-704.
- **Guzman M**, Laukkanen A-M, Krupa P, Horáček J, Švec J, Geneid A. Vocal Tract and Glottal Function During and After Vocal Exercising with Resonance Tube and Straw. *Journal of Voice*, 2013;27:305-311. ***\*Journal of Voice Best Paper Award 2013. \*Highly cited Paper Journal of Voice.***

- **Guzman M**, Barros M, Espinoza F, Herrera A, Parra D, Lloyd A. Resonance Strategies Revealed in Rock Singers During Production of High Notes. *Journal of Singing*. 2014;71;183.
- **Guzman M**, Rubin A, Muñoz D, Jackson-Menaldi C. Changes on Glottal Contact Quotient During Tube Phonation and Phonation with Vibrato. *Journal of Voice*. 2013; 27: 305-311.
- Master S, **Guzman M**, De Miranda H, Lloyd A. Electroglottographic Analysis of Actresses and Non-Actresses' Voices in Different Levels of Intensity. *Journal of Voice*. 2013; 27: 187-194.
- **Guzman M**, Correa S, Muñoz D, Mayerhoff R. Influence on Spectral Energy Distribution of emotional expression. *Journal of Voice*. 2013;27: 129.e1-129.e10.
- **Guzman M**, Higuera D, Finchiera C, Muñoz D, Guajardo C, Dowdall J. Immediate acoustic effect of straw phonation exercises in subjects with dysphonic voices. *Logopedics Phoniatrics and Vocology*. 2013;38:35-45.
- **Guzman M**, Angulo M, Muñoz D, Mayerhoff R. Effect on long-term average spectrum of vocal warm-up with vocal function exercises. *International Journal of Speech Language Pathology*. 2013; 15:127-135.
- **Guzmán M**, Dowdall J, Rubin A, Mayerhoff R, Levi S, Menaldi C. Influence of Emotional Expression, Loudness and Gender on the Acoustic Parameters of Vibrato in Classical Singers. *Journal of Voice*. 2012; 26:675.e5-11.
- **Guzmán M**, Malebran C, Zavala P, Saldivar P, Muñoz D. Cambios acústicos de la voz como signos de fatiga vocal en locutores de radio: resultados preliminares. *Acta Otorrinolaringológica Española*. 2012; 64: 176-183.
- **Guzmán M**, Coleman C, Rubin A, Belanger J, Jackson-Menaldi C. The use of the mobile voice laboratory in the operating room during type I thyroplasty with Gortex. *Acta Otorrinolaringológica Española*. 2012;63:364-369.
- **Guzmán M**. Terapia con tracto vocal semi-ocluido: Un estudio de caso. *Revista Chilena de Fonoaudiología*. 2012;11:87-97.
- **Guzmán M**, Callejas C, Castro C, García-Campo P, Lavanderos D, Valladares M, Muñoz D, Carmona C. Efecto terapéutico de los ejercicios con tracto vocal semi-ocluido en paciente con disfonía musculo tensional tipo I. *Revista Logopedia Foniatría y Audiología*. 2012; 32, 139-146.
- **Guzmán M**, Higuera D, Fincheira C, Muñoz D, Guajardo C. Immediate effect of a vocal exercises sequence with resonant tubes. *Revista CEFAC* 2012;14(3):471-480.
- Tomicic A, Martinez C, Chacon L, **Guzmán M**. Patrones de Calidad Vocal en Psicoterapia: Desarrollo y Estudio de Confiabilidad de un Sistema de Codificación. *Revista Psykhe*. 2010;20(1):77-93

- **Guzmán M.** Calentamiento de la vocal en profesionales de la voz. *Revista Logopedia Foniatría Audiología*. 2010:30(2):100-105
- **Guzmán M.** Entrenamiento del vibrato en Cantantes, *Revista CEFAC*. 2010:13(1):568-578
- Tomicic, A., Bauer, S., Martínez, C., Reinoso, A., & **Guzmán, M.** (2009). La Voz como una Herramienta Psicoterapéutica: La Perspectiva de los Terapeutas. *Revista Argentina de Clínica Psicológica*, 18 (3):197-208.
- **Guzmán M,** Correa S, Ferrada P, Mamami G, Perez C. (2009). Modificación de los parámetros vocales en la interpretación de las emociones básicas. *Revista Metavoces*, 5(7):95-109.
- Tomicic A, Martínez C, Bauer S, Reinoso A, **Guzmán M,** Chacón D. El sonido de la psicoterapia: Visión general de una línea de investigación. *Gaceta de Psiquiatría Universitaria*. 2010: 6(1), 98-107.
- Tomicic, A. Martínez, C. **Guzmán, M.** Patrones de cualidad vocal en psicoterapia: Desarrollo y estudio de confiabilidad de un sistema de codificación. *Memorias del Primero congreso iberamericano de voz cantada y hablada*. Buenos Aires. Argentina, 2010. CD, ISBN 978-978-26209-0-5.
- **Guzmán M,** Jackson-Menaldi C, Rubin A. Movimiento paradójico de las cuerdas vocales: Un estudio de caso. *Revista Chilena de Fonoaudiología*, 2009, vol. 9(1), pp 63-78.
- **Guzmán M.** (2006) La voz del cantante: Una integración de ciencia y arte. *Revista Chilena de Fonoaudiología*. Vol. 7(2), pp 75-100.
- Martínez L, Bruna A, **Guzmán M,** Herrera C, Valle J, Vásquez M: Efecto de Recencia y el Efecto de Metría en la memoria de trabajo fonológica en niños preescolares con TEL moderado. *Revista Chilena de Fonoaudiología*, 2002, vol. 4(1), pp 19-30.
- L. Martínez, A Bruna, **M Guzmán,** C Herrera, J Valle, M Vásquez.(2002) Preescolares con trastorno específico del lenguaje. *Revista de Logopedia, Foniatría y Audiología*, 22(4):179-200.

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#### **Publications of books and books chapters**

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- **Guzman M,** Acevedo K, Parálisis de pliegue vocal: de la fisiopatología a la rehabilitación vocal. En: Monroy R. *Manual Práctico de Logopedia II*. Psylicom Ediciones, 2020.

- Susanibar F, Castillo J, Rockland A, Silva J, **Guzman N**, Aguirre E. Envejecimiento del sistema estomatognático. In: Susanibar F, Castillo J, Douglas C, Marchesan I, Santos R. Motricidad Orofacial: Fundamentos basados en evidencias. Volumen 2. Madrid. EOS, 2016.
- **Guzman M**. Fundamentos y Evaluación del habla. In: Susanibar F, Dioses A, Marchesan I, Guzman M, Leal G, Guitar B, Junqueira Bohnen A. Trastornos del Habla: de los fundamentos a la evaluación. Madrid. EOS, 2016.
- Susanibar F, Dioses A, Marchesan I, **Guzman M**, Leal G, Guitar B, Junqueira Bohnen A. Trastornos del Habla: de los fundamentos a la evaluación. Madrid. EOS, 2016.
- Susanibar F, **Guzman M**, Dacillo C. Fisiología de la respiración para fonología. In: Susanibar F, Parra D, Dioses A (Coord.). Motricidad Orofacial: Fundamentos basados en evidencias. Madrid: EOS. 2013.
- Susanibar F, **Guzman M**, Dacillo C. Fisiologia da Respiração Relativa à Fonoaudiologia. In: Susanibar et al. Motricidade Orofacial: Fundamentos neuroanatômicos, fisiológicos e lingüísticos. São Paulo. Book Toy, 2015.

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### **Serving as peer reviewer in journals**

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- Reviewer and editorial board member in Journal of Voice (ISI)
- Reviewer in Journal of Speech Language and Hearing Research (ISI)
- Reviewer in Journal of the Acoustical Society of America (ISI)
- Reviewer in International Journal of Speech Language Pathology (ISI)
- Reviewer in International Journal of Pediatric Otorhinolaryngology (ISI)
- Reviewer in Folia Phoniatica et Logopedica (ISI)
- Reviewer in Logopedics Phoniatrics and Vocology (ISI)
- Reviewer in Journal Advances in Otolaryngology (ISI)
- Reviewer in Journal Plos One (ISI)
- Reviewer in Revista de Logopedia, Foniatria y Audiología (SCOPUS)
- Reviewer in Journal Acta Médica Académica (SCIELO)
- Editorial board member in Journal Annals of Clinical Otolaryngology
- Associate editor in Revista Chilena de Fonoaudiología (LATIN INDEX)



- Reviewer and editorial board member in Revista Mexicana de Comunicación, Audiología, Otoneurología y Foniatría.
- Reviewer in Revista científica ARETÉ, Colombia.

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### **Academic teaching experience**

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2019	Guest Lecturer, Dr. Katherine Verdolini Voice Lab meetings, University of Delaware. USA.
2018 to date	Professor at the Universidad de los Andes, Department of Communication Sciences and Disorders (present position).
2019	Invited professor at University of Delaware (USA).  Course taught: Voice Sciences (PhD program in Communication Sciences and Disorders)
2009-2017	Assistant Professor at the University of Chile, Department of Communication Sciences and Disorders.  Courses taught: voice disorders, voice technique, instrumental voice assessment, voice treatment and training, acoustic physics, musical resources applied to voice training and therapy, and singing voice theory and practice.
2016 to date	Director and creator of the one year-certification in Vocology, University of Chile.  Courses taught: Advance voice physiology, advance voice physiopathology, instrumental voice assessment, voice therapy, singing voice training.
2014	Invited professor in Master of Phonetic and Phonology, Voice sciences section. Superior board of scientific research. Madrid, Spain. Presentation titles: Physiologic voice therapy, Biomechanics of voice, Aerodynamic assessment of voice, principles of motor learning in voice training.
2014	Visiting lecturer at the Mayor University. One year-certification in singing voice. Lectures in: Instrumental voice assessment and singing voice training.
2010-2016	Visiting lecturer at the University of Talca. Master program in Speech Pathology. Lectures in: Voice production, voice therapy, professional voice.
2010-2016	Visiting lecturer at the University of Valparaiso. Master program in Speech Pathology. Lectures in: Voice production, voice therapy,

professional voice.

- 2009 Visiting lecturer at the University of San Luis, Argentina. Course taught: Professional voice.
- 2008 Lecturer at the Andres Bello National University, School of Speech and Hearing Sciences. Chile. Course taught: Musical Resources applied to voice therapy and training.
- 2007 Lecturer at the Catholic University of Chile, School of Theater. Course taught: Voice technique.
- 2004-2009 Visiting lecturer at the University of Valparaiso, Chile. Lectures in: Voice Disorders and Voice Therapy
- 2004-2008 Visiting lecturer at the University of Concepción, Chile. Lectures in: Voice Disorders
- 2003-2009 Lecturer at the Mayor University, School of Speech and Hearing Sciences. Chile.  
Courses taught: Skills of Oral Communication, Voice Disorders, Voice Therapy 1, and Voice Therapy 2.
- 2002-2008 Instructor at the University of Chile, School of Communication Sciences and Disorders. Courses taught: Vocal Technique, Voice Disorders, and Musical Resources.
- 2001 Research assistant in School of Communication Sciences, University of Chile.
- 1999-2001 Teaching assistant of Voice disorders course and vocal technique course in School of Communication Sciences, University of Chile

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### **Conference talks**

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- 2020 May Invited Speaker in "49 The Annual Symposium: Care of the professional Voice" (online). Voice Foundation, Philadelphia, USA. Presentation title: Optimizing vocal efficiency and vocal economy to combat vocal fatigue.
- 2020 May Oral presentation in "49 The Annual Symposium: Care of the professional Voice" (online). Voice Foundation, Philadelphia, USA. Presentation title: How do tube diameter and vocal tract configuration affect oral pressure oscillation characteristics caused by bubbling during water resistance therapy?

- 2019 March Invited speaker in “International conference of Phoniatics” Organized by the Phonatricsians Association of Mexico. Mexico City, Mexico. Presentation titles: 1) Water resistance therapy in voice rehabilitation: scientific and clinical basis, 2) Motor learning in voice rehabilitation, 3) Supraglottic constriction during vocalization.
- 2018 May Invited speaker in “International conference of Logopedics, Phoniatics, and Audiology” Organized by the Logopedics, Phoniatics, and Audiology Association of Spain. Granada, Spain. Presentation title: Physiologic vocal warm-up.
- 2018 May Invited speaker in “International conference of Logopedics, Phoniatics, and Audiology” Organized by the Logopedics, Phoniatics, and Audiology Association of Spain. Granada, Spain. Presentation title: Voice rehabilitation with water resistance therapy.
- 2018 June Oral presentation in “47 The Annual Symposium: Care of the professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Aerodynamic characteristic of growl voice and reinforced falsetto in metal singing.
- 2018 June Oral presentation in “47 The Annual Symposium: Care of the professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Water Resistance Therapy as Vocal Warm-Up Method in Contemporary Commercial Music Singers.
- 2018 June Oral presentation in “47 The Annual Symposium: Care of the professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Immediate effects of semioccluded ventilation mask in subjects diagnosed with functional dysphonia and subjects with normal voices.
- 2018 June Oral presentation in “47 The Annual Symposium: Care of the professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Do Different Semi-Occluded Voice Exercises Affect Vocal Fold Adduction Differently in Subjects Diagnosed with Hyperfunctional Dysphonia?
- 2018 June Oral presentation in “47 The Annual Symposium: Care of the professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: The impact of double source of vibration semioccluded voice exercises on objective and subjective outcomes in subjects with voice complaints.
- 2018 June Oral presentation in “47 The Annual Symposium: Care of the professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Contribution of the Epilaryngeal Tube Narrowing and Vocal Tract Shape on Spectral Characteristics During Twangy Belting: a Computerized Tomography Study.

- 2018 May Invited speaker in “Seminar on voice care in teachers” Municipality of Parral, Department of Education, Parral, Chile. Presentation title: Voice as a tool for oral communication.
- 2018 May Invited speaker in “Workshop on the World Voice Day” Universidad Gabriela Mistral, Department of Communication Sciences and Disorders, Santiago, Chile. Presentation title: Physiologic approach of voice rehabilitation.
- 2018 May Invited speaker in “Voice rehabilitation Seminar” Universidad de las Americas, Department of Communication Sciences and Disorders, Viña del Mar, Chile. Presentation title: Water resistance therapy: a physiologic approach for voice rehabilitation.
- 2018 April Invited speaker in “World Voice Day Seminar” Universidad Silva Henríquez, Department of Communication Sciences and Disorders, Santiago, Chile. Presentation title: Water resistance therapy: a physiologic approach for voice rehabilitation.
- 2018 April Invited speaker in “World Voice Day Seminar” Universidad de Viña del Mar, Department of Communication Sciences and Disorders, Viña del Mar, Chile. Presentation title: Supraglottic constrictions in singing voice.
- 2017 December Invited speaker in “Seminar on voice rehabilitation and training”. University of Los Lagos, Department of Communication Sciences and Disorders, Osorno, Chile. Presentation title: Voice rehabilitation and training with water resistance therapy: scientific and practical bases.
- 2017 October Invited speaker in “Seminar on pediatric voice”. Comunicrte centro de estudios de la voz y la comunicación humana. Santiago, Chile. Presentation title: Acoustic markers to differentiate gender in prepubescent children’s speaking and singing voice.
- 2017 May 2-days Short course taught: “Evidence based physiologic voice therapy” All days-lectures were held in Murcia, Spain. Course organized by Association of Speech-language pathologists of Murcia.
- 2017 May Invited speaker in “Seminar on pediatric voice”. Comunicrte centro de estudios de la voz y la comunicación humana. Santiago, Chile. Presentation title: Acoustic markers to differentiate gender in prepubescent children’s speaking and singing voice.
- 2016 August Oral presentation in 30<sup>th</sup> World congress of the International association of logopedics and phoniatrics. Dublin, Ireland. Presentation title: Efficacy of water resistance therapy in subjects diagnosed with behavioral dysphonia: a randomized-controlled trial.

- 2016 July 2-days Short course taught: "Evidence based physiologic voice therapy" All days-lectures were held in Madrid, Spain. Course organized by Association of Speech-language pathologists of Spain.
- 2016 March 10<sup>th</sup> International Conference on Voice Physiology and Biomechanics. Viña del Mar, Chile: Presentation title: Computerized tomography measures during and after artificial lengthening of the vocal tract in subjects with voice disorders.
- 2016 March 10<sup>th</sup> International Conference on Voice Physiology and Biomechanics. Viña del Mar, Chile: Presentation title: Air pressure and contact quotient measures during different semi-occluded postures in subjects with different voice conditions
- 2015 September Oral presentation in 11<sup>th</sup> Pan European Voice Conference. Florence, Italy. Presentation title: How do laryngeal and respiratory functions contribute to differentiate actors/actresses and untrained voices?
- 2015 September Oral presentation in 11<sup>th</sup> Pan European Voice Conference. Florence, Italy. Presentation title: Air pressure and contact quotient measures during different semi-occluded postures in subjects with different voice conditions.
- 2014 august Invited speaker in XXXIII Congreso Argentino de Otorrinolaringología. Días 13-16 de agosto. Organized by Federación Argentina de Sociedades de Otorrinolaringología (FASO).
- 2014 June Invited speaker in "8<sup>th</sup> course in phoniatic topics". National Institute of rehabilitation. Mexico City, Mexico. Presentation titles: Scientific evidence in physiologic rehabilitation of voice disorders, Circumlaryngeal massage and reposturing maneuvers, Paradoxical vocal fold motion.
- 2014 May Oral presentation in "43th Annual Symposium: Care of the Professional Voice". Voice Foundation, Philadelphia, USA. Presentation title: Laryngeal and Pharyngeal activity during different semi-occluded vocal tract postures in subjects with functional dysphonia.
- 2014 May Oral presentation in "43th Annual Symposium: Care of the Professional Voice". Voice Foundation, Philadelphia, USA. Presentation title: The impact pf water resistance therapy on vocal folds vibration: A high speed digital imaging study.
- 2014 May Poster presentation in "43th Annual Symposium: Care of the Professional Voice". Voice Foundation, Philadelphia, USA. Presentation title: Immediate acoustic effect straw phonation exercises in subjects with dysphonic voices.

- 2014 May Poster presentation in "43th Annual Symposium: Care of the Professional Voice". Voice Foundation, Philadelphia, USA. Presentation title: Maxillary dental arch dimensions and association with voice classification in opera singers: a pilot study.
- 2014 May Invited speaker in Master of Phonetic and Phonology, Voice sciences section. Superior board of Scientific research. Madrid, Spain. Presentation titles: Physiologic voice therapy, Biomechanics of voice, Aerodynamic assessment of voice, principles of motor learning in voice training.
- 2014 May 2-days Short course taught: "Effectiveness in voice therapy" All days-lectures were held in Bilbao, Spain.
- 2014 March Invited speaker in "8<sup>th</sup> Workshop in Otolaryngology topics". Las Condes Clinic. Santiago, Chile. Presentation titles: Scientific evidence in physiologic rehabilitation of voice disorders.
- 2014 January 2-days Short course taught: "Effectiveness in voice therapy" All days-lectures were held at UCINF University. Santiago, Chile.
- 2013 October 2-days Short course taught: "Effectiveness in voice therapy" All days-lectures were held at University of Buenos Aires. Buenos Aires, Argentina.
- 2013 October Invited speaker in workshop "Science and art of professional voice". Las Americas University. Santiago, Chile. Presentation titles: Physiologic vocal warm-up.
- 2013 October Oral presentation in "30<sup>th</sup> Chilean Speech Pathology Conference". Santiago, Chile. Presentation title: Laryngeal and pharyngeal activity during semi-occluded vocal tract postures.
- 2013 October Oral presentation in "30<sup>th</sup> Chilean Speech Pathology Conference". Santiago, Chile. Presentation title: Vocal Tract and Glottal Function During and After Vocal Exercising with Resonance Tube and Straw.
- 2013 October Invited speaker in "AEFOCH Conference". Valparaiso, Chile. Presentation titles: Resonance tube in voice therapy.
- 2013 September Invited speaker in "21th Brazilian Speech Pathology Conference". Brazilian Society of Speech and Language Pathology. Recife, Brazil. Presentation titles: Resonance tube in voice therapy.
- 2013 September Invited speaker in "21th Brazilian Pathology Conference". Brazilian Society of Speech and Language Pathology. Recife, Brazil. Presentation titles: Laryngeal and Pharyngeal activity during singing.
- 2013 September 2-days Short course taught: "Effectiveness in voice therapy" All days-lectures were held in Tucuman, Argentina.

- 2013 August Oral presentation in “10<sup>th</sup> Pan European Voice Conference”. Prague, Czech Republic. Presentation title: Vocal Tract and Glottal Function During and After Vocal Exercising with Resonance Tube and Straw.
- 2013 August Poster presentation in “10<sup>th</sup> Pan European Voice Conference”. Prague, Czech Republic. Presentation title: Laryngeal and pharyngeal activity during different semi-occluded vocal tract postures in subjects diagnosed with hyperfunctional dysphonia.
- 2013 August Invited moderator in 10<sup>th</sup> Pan European Voice Conference. Prague, Czech Republic. Session: Semi-occluded vocal tract therapy.
- 2013 June Invited speaker in “Voice and Swallowing Conference”. German Clinic. Santiago, Chile. Presentation titles: Physiologic voice therapy, Paradoxical vocal fold motion, Aerodynamic assessment of Voice.
- 2013 July 2-days Short course taught: “Effectiveness in voice therapy” All days-lectures were held in University of Concepcion. Concepcion, Chile.
- 2013 June Oral presentation in “42<sup>th</sup> Annual Symposium: Care of the Professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Neuromuscular Electrical Stimulation of the Cricothyroid Muscle in Patients With Suspected Superior Laryngeal Nerve Weakness.
- 2013 June Oral presentation in “42<sup>th</sup> Annual Symposium: Care of the Professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Electroglottographic Analysis of Actresses and Non-Actresses’ Voices in Different Levels of Intensity.
- 2013 June Oral presentation in “42<sup>th</sup> Annual Symposium: Care of the Professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Differences in Acoustic and Perceptual Vocal Parameters between Young and Elderly Women in Habitual and Loud Intensity.
- 2013 June Poster presentation in “42<sup>th</sup> Annual Symposium: Care of the Professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Acoustic and Perceptual Analysis of Brazilian Actresses’ Voices.
- 2013 may 2-days Short course taught: “Effectiveness in voice therapy” All days-lectures were held in University of Valparaiso. Valparaiso, Chile.
- 2013 abril Poster presentation in “American Laryngological Association’s 2013 Spring Meeting” at COSM in Orlando, Florida, USA. 10-11 de abril, 2013. Tema: Analysis of Supraglottic Hyperfunction During Vocalization in Healthy Singers.

- 2013 April 2-days Short course taught: "Effectiveness in voice therapy" All days-lectures were held in Iberoamerican University. Bogota, Colombia.
- 2012 November 2-days Short course taught: "Acoustic analysis of voice and its application in voice clinic" All days-lectures were held in Del Valle University. Cali, Colombia.
- 2011 October Oral presentation in "1<sup>st</sup> Iberoamerican Professional Voice Conference". University of Chile, Santiago, Chile. Presentation title: Effect on Contact quotient of Resonance Tubes and Vibrato Phonation.
- 2011 June Oral presentation in "41th Annual Symposium: Care of the Professional Voice". Voice Foundation, Philadelphia, USA. Presentation title: Resonance Strategies in Rock Singers: An Inverse Filtering and Power spectrum Study
- 2011 June Oral presentation in "41th Annual Symposium: Care of the Professional Voice". Voice Foundation, Philadelphia, USA. Presentation title: Effect on Contact quotient of Resonance Tubes and Vibrato Phonation.
- 2012 June 2-days Short course taught: "Acoustic analysis of voice and its application in voice clinic" All days-lectures were held in National University of San Luis. Argentina.
- 2012 June Invited speaker in "XIV Phoniatic Conference". National University of San Luis. Argentina. Presentation title: Voice rehabilitation with physiologic approach.
- 2012 May 2-days Short course taught: "Acoustic analysis of voice and its application in voice clinic" All days-lectures were held in Association of Speech Language Pathologist of Castilla y Leon. Valladolid, Spain.
- 2012 April Workshop: "Voice training with semi-occluded vocal tract". University of Tampere. Tampere, Finland.
- 2012 April 3-days Short course taught: "Physiologic and Symptomatic Rehabilitation of Voice Disorders" All days-lectures were held in Austral University of Chile. Puerto Montt, Chile.
- 2012 March 2-days Short course taught: "Physiologic and Symptomatic Rehabilitation of Voice Disorders" All days-lectures were held in Association of Speech Language Pathologist of Mendoza. Mendoza, Argentina.
- 2011 December 2-days short course taught: "Acoustic analysis of voice and its application in voice clinic" All days-lectures were held in Professional



- Institute of Chile. School of communications Disorders. Santiago, Chile.
- 2011 December Short course taught: "Physiologic and Symptomatic Rehabilitation of Voice Disorders" All days-lectures were held in Association of Speech Language Pathologist of Castilla y Leon. Valladolid, Spain.
- 2011 November Invited speaker in "VII International conference of Speech Language Pathologists of Spain" Spanish Association of Speech Language Pathology". Presentation title: Voice treatment in hyperfunctional and hypofunctional dyphonias, physiology and assessment of singing voice.
- 2011 November Speaker in seminar "Interdisciplinary perspectives of vocal technique in actors". School of Communication Sciences, University of Chile. Presentation title: Physiologic vocal warm up with semi-occluded vocal tract postures"
- 2011 October Invited speaker in "Conference of Speech and Voice Therapy". Medellín, Colombia. Presentation titles: Physiologic voice therapy, vocal functions exercises workshop, acoustic impedance of vocal tract, semi-occluded vocal tract techniques in voice therapy.
- 2011 August 2-days short course taught: "International Seminar in Voice Rehabilitation and Training" All days-lectures were held in Association of Medical doctors and surgeons of Costa Rica. San José, Costa Rica.
- 2011 July Oral presentation in "Symposium on Semi-occluded Vocal Tract Voice Therapy and Diagnostic Techniques". National Center for Voice and Speech. Salt Lake City, USA. Presentation title: Effect on long-term average spectrum of vocal function exercises in singers with normal voice.
- 2011 July Oral presentation in "Symposium on Semi-occluded Vocal Tract Voice Therapy and Diagnostic Techniques". National Center for Voice and Speech. Saly Lake City, USA. Presentation title: Immediate effect of a vocal exercises sequence with resonant tubes.
- 2011 June Oral presentation in "40th Annual Symposium: Care of the Professional Voice. Voice Foundation. Philadelphia, USA. Presentation title: Therapeutic Effect of Semi-Occluded Vocal Tract Exercises in Patients with Type I Muscle Tension Dysphonia
- 2011 June Oral presentation in "40th Annual Symposium: Care of the Professional Voice. Voice Foundation, Philadelphia, USA. Presentation title: "Influence of Emotional Expression on Acoustic Parameters of Vibrato in Opera Singers"

- 2011 June Oral presentation in “40th Annual Symposium: Care of the Professional Voice”. Voice Foundation, Philadelphia, USA. Presentation title: Correlation between perceptual assessment and acoustic parameters of vibrato in tenors.
- 2011 June Poster presented in “40th Annual Symposium: Care of the Professional Voice. Voice Foundation, Philadelphia, USA. Poster title: Vibrato training in pop and classical singers.
- 2011 June Invited speaker in “III International Conference of Speech-Language Pathology”. Lima, Peru. Presentation titles: Acoustic impedance of vocal tract, semi-occluded vocal tract techniques in voice rehabilitation, phonatory mechanisms and resonance strategies in singers, workshop in breathing training in professional voice users.
- 2011 May Invited speaker in “1<sup>st</sup> International Seminar of Singing Voice. Iberoamerican Foundation of Singing and Speaking Voice (FIVCH). Córdoba, Argentina. Presentation title: Registers in singing.
- 2011 May 4-days short course taught: “International Seminar in Voice rehabilitation and Profesional Voice. All day lectures were held in University of Valle. Cali, Colombia.  
Presentation titles: Physiologic voice therapy, acoustical impedance of vocal tract, semi-occluded vocal tract techniques, paradoxical vocal fold motion, circumlaryngeal massage and reposturing maneuvers of larynx, assessment in singing voice, phonatory mechanisms and resonance strategies in singing, voice rehabilitation in singing voice, clinical applications of aerodynamic measurements of phonation, workshop of voice rehabilitation exercises, workshop of singing voice technique, workshop of vocal technique in actors, workshop of musical application of musical resources in voice therapy.
- 2011 January Speaker in “International Seminar of Professional voice” University of Chile, School of Communication Sciences. Presentation titles: Resonance strategies in singers, physiologic vocal, aerodynamic measurements of voice, voice training in dubbing.
- 2010 September Invited speaker in Speaker in “VII International Conference of Speech-Language Pathology” Organized by Society of Speech-Language Pathologists of Panama and University of Panama. Presentation titles: Acoustic impedance of vocal tract, Voice therapy with semi-occluded vocal tract exercises, Resonance strategies in singers, physiology, technique and assessment in singing voice.
- 2010 June Oral presentation in “39th Annual Symposium: Care of the Professional Voice. Voice Foundation, Philadelphia, USA. Presentation title: The use of the Mobile Voice Laboratory During Type I Thyroplasty with Gore-Tex
- 2010 June Poster presented in “39th Annual Symposium: Care of the

- Professional Voice. Voice Foundation, Philadelphia, USA. Poster title: Voice Training in Dubbing.
- 2010 June Invited speaker in “XIII Phoniatic Conference”. National University of San Luis. Argentina. Presentation title: Articulation in singing.
- 2010 January Invited speaker in “II Voice Therapy and Training Conference” Desarrollo University. Santiago, Chile. Presentation titles: Vibrato training in singers, Paradoxical vocal folds motion Vocal Tract Acoustic Impedance and Voice therapy with Semi-occluded vocal tract exercises.
- 2009 December Invited speaker in “Seminar on Physiology and Acoustic of Singing Voice”. University of Concepcion. Concepcion, Chile. Presentation title: Assessment and Therapy of Singing Voice, physiology of singing voice, registers in singing, workshop of singing voice technique.
- 2009 December 2-days short course taught: “Seminar on Professional Voice”. All days-lectures were held in National University of San Luis,
- 2009 November Invited speaker in “26<sup>th</sup> Chilean Conference of Speech-Language Pathology”. Santiago, Chile. Presentation title: “Vibrato training in pop and classical singers”.
- 2009 October Invited speaker in “Evaluation and Therapy in Voice Disorders Conference”. Viña del Mar, Chile. Presentation title: Paradoxical Vocal Fold Motion: Theory and voice therapy.
- 2009 July Oral presentation in “40th Annual Meeting of Society for Psychotherapy Research” (SPR). Santiago, Chile. Presentation title: How to qualitatively account for patient-therapist vocal patterns?
- 2009 June Invited speaker in “XIX ENT World Congress” Sao Paulo, Brasil Presentation title: “Register and register transitions in singers”
- 2009 June Discussion moderator “XIX ENT World Congress” Sao Paulo Brazil. Topic: “The singer as patient with dysphonia”
- 2009 June Invited speaker in “XIX ENT World Congress”, Sao Paulo, Brazil. Presentation title: “Therapeutic management in singers”.
- 2009 June Poster presented in “XIX ENT World Congress”. Topic: “Correlation between perceptual evaluation and acoustical Parameters of vibrato in famous tenors”. Best paper on phoniatics and audiology award in XIX world congress of oto-rhino-laringology-ifos 2009 Brazil.
- 2009 June Invited speaker in “XII Phoniatic Conference”. National University of San Luis. Argentina. Presentation title: Voice training in dubbing

- 2008 August Invited speaker in “Seminar of Psychotherapy and Voice” Catholic University of Chile, School of Psychology. Presentation title: Vocal parameters in speaking voice.
- 2008 August 3-days short course taught: “Technique, Physiology, Evaluation and Therapy of Singing and Speaking Voice”. All days-lectures were held in University of Cauca, Colombia. Presentation titles: Physiology and technique of singing voice, singing voice therapy, acoustic of singing voice, acoustic of speaking voice, acoustic analysis of voice, respiratory training in actors, vocal training in actors, singing voice workshop.
- 2008 August Invited speaker in “Otolaryngology Conference”. Organized by Chilean Society of Otolaryngology. Presentation title: Transsexual voice, change in regional vocal accents, and vocal instability.
- 2008 July Invited speaker in “XI Phoniatic Conference”. National University of San Luis. Argentina. Presentation title: Respiratory training in professional voice users.
- 2008 June Invited speaker in “Otorhinolaryngology Seminar” Organized by Chilean Society of Otorhinolaryngology. Presentation title: Acoustic of oice and acoustic analysis of voice.
- 2008 June Oral presentation in “39th Annual Meeting of Society for Psychotherapy Research” (SPR). Barcelona, Spain. Presentation title: The voice as a psychotherapeutic instrument: The therapist's view.
- 2008 June Poster presented in “39<sup>th</sup> Annual Meeting of Society for Psychotherapy Research” (SPR) Barcelona, Spain. Poster title: Coordination of the vocal rhythm between patient and therapist: Preliminary Results.
- 2008 June Poster presented “39th Annual Meeting of Society for Psychotherapy Research” (SPR) Barcelona, Spain. Presentation title: Musicality in the therapeutic dialogue: Research in progress regarding vocal coordination and its relation with the psychotherapeutic change.
- 2008 April Invited speaker in “Seminar of Voice Clinic Analysis“ San Salvador Hospital, Córdoba, Argentina. Presentation title: Voice registers and register transitions in singers.
- 2008 January Invited speaker in “Course of theory and practice of Vocal Technique” Desarrollo University, School of Speech and Hearing Sciences. Topics: Laryngeal massage, articulation training in vocal technique, phonation and resonance in professional voice users.

2007 October	Invited speaker in “Course of Voice Rehabilitation” Reñaca Clinic, Chile. Presentation title: Vocal registers and register transitions”
2007 July	Invited speaker in “Otorhinolaryngology Conference” Organized by Catholic University of Chile Clinic Hospital. Presentation title: Singing and speaking voice technique.
2007 July	Speaker in “Otorhinolaryngology Seminar” University of Buenos Aires, Argentina. Presentation title: Vocal registers and register transitions in singers”
2007 July	Invited speaker in “School of Theater of Buenos Aires”, Argentina. Presentation title: Actor Vocal Technique.
2007 June	Invited speaker in “X Phoniatic Conference” University of San Luis. Argentina. Presentation title: Vocal therapy in singing voice.
2007 April	Speaker in “Course of Actor Vocal Technique” University of Chile, School of Speech and Hearing Sciences.
2007 January	Speaker in “International Conference of Diagnostic, Evaluation and Therapy in Singing and Speaking Voice” University of Chile, School of Communication Sciences. Presentation title: Singing voice evaluation, singing voice therapy.
2006 November	Invited speaker in “XXIII Speech-Language Pathology Conference” Santiago, Chile. Presentation title: Singing voice therapy.
2006 May	Invited speaker in “International Course of Otorhinolaryngology Surgery” Chilean Society of Otorhinolaryngology. Presentation title: Singing voice evaluation and therapy.
2005 November	Invited speaker in “XXII Speech-Language Pathology Conference” Santiago, Chile. Presentation title: Singing voice physiology.
2005 august	Invited speaker in “Course of Voice Physiology” Academy of Christian Humanism. Santiago, Chile.
2005 august	Invited speaker in “Course of Voice Physiology” Bolibariana University, School of Theater. Santiago, Chile.
2004 November	Invited speaker in “XXI Speech-Languaje Pathology Conference” Chile. Presentation title: Singing voice physiology and therapy.
2004 May	Speaker in “I Conference of Professional Voice Use” Chile. Presentation title: Voice physiology and vocal care”
2004 March	Speaker in “Course of Vocal Technique for Professional Voice Users” University of Chile.

2002 September Speaker in "Course of Voice Acoustic Analysis of voice". University of Chile, School of Speech and Hearing Sciences. Santiago, Chile.

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### **Visiting fellowships abroad**

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2016 May-July Visiting Researcher in the Voice Research Laboratory, Institute of Musicians' Medicine, Freiburg University Medical Center. Germany.

2009-2011 Visiting Fellow in Lakeshore Professional Voice Center and Wayne State University. Detroit, USA.

2010 April Visiting Professor at the University of Kentucky, Division of Communication Disorders, Voice laboratory. Kentucky, USA.

2010 March Visiting Fellow in voice pathology and professional voice at "The Blaine Block Institute for Voice Analysis and Rehabilitation". Ohio, USA.

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### **Additional Courses**

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2013 Course in Biostatistics (9 credits). University of Chile.

2013 Course in Research methodology (3 credits). University of Chile.

2013 Certification in developing university teaching with information and communications technologies (15 credits). University of Chile.

2012 Certification in "Lessac-Madsen Resonant Voice Therapy" y "Casper-Stone Confidential Flow Therapy". USA.

2012 Certification in Estill Voice Training (Voice Craft): Compulsory figures for voice control and figure combination for six qualities (Levels 1 y 2). 40 hours. Pittsburgh, PA, USA.

2012 Certification in "Adventures in Voice". USA.

2011 Course in acoustic physics. Michigan State University, Department of Biomedical and Physical Sciences. USA.

2010 Voice specialty (Summer Vocology Institute). University of Iowa and National Center for voice and speech. Director Dr. Ingo Titze.

2009 Attendant of 27th Annual Otolaryngology Scientific Forum. Michigan, USA. Wayne State University.

2009: Attendant of "The Fourth International Conference on The Physiology and Acoustics of Singing. University of Texas. U.S.A.

2008-02-06	Attendant of Workshop “Vocal Technique and voice liberation Roy Hart”. Professors: Carol Mendelsohn and Saul Ryan, International Center Roy Hart (France). Santiago, Chile.
2006	One-year certification in body therapy (Feldenkrais technique and Eutony)
2004	Student of “Certification in Physical Therapy” Feldenkrais Method and Eutony Method. ARCIS University. Chile
2005 Jan-Dic	Student of “Course of Broadcaster” in ARTICOM Academy, Santiago, Chile.
2005	Attendant of Course of “Vocal Technique and Choreography” at the Mayor University. Professors: Linda Wise and Enrique Pardo. International Center Roy Hart”, France.
2004 January	Attendant of “International Course of Choir Conduction” in Catholic University of Chile. Professor: Joseph Prats. Superior Conservatory of Music. Barcelona, Spain.
2003-2006	Student of Voice Performance. Catholic University of Chile, School of Music. Santiago, Chile.
2000-2002	Student of Music Theory. University of Chile, Conservatory of Music. Santiago, Chile.

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### **Grants awarded**

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FONDECYT iniciación N° 1118029. Acute vocal fold inflammation after phonotrauma: a new treatment based on mechanical tissue mobilization. 2018-2021. Awarded by CONICYT, Chile.

Eficacia de un protocolo terapéutico basado en terapia de resistencia en el agua en sujetos diagnosticados con nódulos vocales. 2018-2020. Awarded by Comité de Ciencia y Tecnología de la Corporación Universitaria Iberoamericana. Colombia.

Eficacia de un protocolo terapéutico fisiológico basado en el uso de la máscara semiocluida de ventilación en sujetos con fatiga vocal. 2018-2020. Awarded by Comité de Ciencia y Tecnología de la Corporación Universitaria Iberoamericana. Colombia.

Stem cells injection as a treatment for vocal fold scar in humans. Grant DACLC 2014-2016. Awarded by Academic Department. Las Condes Clinic. Chile.

Variaciones del índice de economía vocal aplicando ejercicios con tracto vocal semiocluido. Grant number QDN-BG005. 2017-2019. Awarded by Comité de Ciencia y Tecnología de la Corporación Universitaria Iberoamericana. Colombia

Variation on glottal contact quotient during and after different semiocluded vocal tract exercises in subjects with normal voice and dysphonia. Grant number 1533. 2017-2019. Awarded by Comité de Ciencia y Tecnología de la Corporación Universitaria Iberoamericana. Colombia.

Effect of different semiocluded vocal tract exercises on vocal economy index. Grant number: QDN-BG005. Awarded by Universidad del Rosario, Colombia.

Efficacy of a rehabilitation protocol based on semiocluded vocal tract exercises in subject with vocal fatigue. Grant number 1578. Awarded by Comité de Ciencia y Tecnología de la Corporación Universitaria Iberoamericana. Colombia.

Variation on vocal economy index during different semiocluded vocal tract exercises in subjects with normal voice and dysphonia. Grant number 1575. Awarded by Comité de Ciencia y Tecnología de la Corporación Universitaria Iberoamericana. Colombia.

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## **Research projects**

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2019-2021	Determinación de la tonicidad de los músculos cervicales, faciales, supra e infrahioides y la postura corporal, en las personas con disfonía comparadas con las personas con voces normales.
2019-2021	Analysis of Supraglottic Activity During Vocalization in Flamenco Singers.
2018-2020	Efecto del diámetro del tubo y volumen del tracto vocal en la oscilación de la presión oral y movimiento de tejidos causado por el burbujeo en sujetos entrenados vocalmente.
2018-2020	Eficacia de un protocolo terapéutico fisiológico basado en el uso de la máscara semiocluida de ventilación en sujetos con fatiga vocal.
2018-2020	Eficacia de un protocolo terapéutico basado en terapia de resistencia en el agua en sujetos diagnosticados con nódulos vocales.
2018-2021	Acute vocal fold inflammation after phonotrauma: a new treatment based on mechanical tissue mobilization
2017-2018	Vocal tract setting in hyperfunctional dysphonia and belting.
2017-2018	Eficacia de un protocolo terapéutico basado en ejercicios con tracto vocal semiocluido en sujetos diagnosticados con fatiga vocal



2017-2018	Aerodynamic characteristics of growl voice and reinforced falsetto in metal singing
2017-2019	Contribution of the Epilaryngeal Tube Narrowing and Vocal Tract Shape on Spectral Characteristics During Twangy Belting: a Computerized Tomography and MRI Study
2017-2018	Immediate Effects of the Semi-Occluded Ventilation Mask on Subjects Diagnosed with Functional Dysphonia and Subjects with Normal Voices
2016-2017	Analysis of Phonation Threshold Pressure, Contact Quotient, and Self-Perceived Voice Quality in Subjects with Behavioral Dysphonia and Normal Voices after Two Semi-Occluded Vocal Tract Exercises
2016-2018	Hemodynamic characteristics of larynx associated to vocal exercises.
2016-2018	Efficacy of Water Resistance Therapy in Patients with Idiopathic Parkinson's Disease.
2016-2019	Effectiveness of a physiologic protocol of voice therapy in subjects with behavioral dysphonia.
2016-2018	Effects of a systematic vocal exercise program on the physiologic range of voice production in opera singers.
2016-2018	Changes on vocal economy index after semiocluded vocal tract exercises.
2016-2018	Efficacy of a voice rehabilitation protocol based on semiocluded vocal tract exercises in subjects with vocal fatigue.
2016-2018	Oscillation of laryngeal and pharyngeal tissues during water resistance therapy: an MRI study.
2016-2018	Duration of water resistance therapy effect on vocal folds vibration: a high speed digital imaging study.
2015-2016	Variaciones del índice de economía vocal aplicando ejercicios con tracto vocal semiocluido.
2015-2017	The Impact of Double Source of Vibration Semiocluded Voice Exercises on Objective and Subjective Outcomes in Subjects with Voice Complaints
2014-2016	Stem cells injection as a treatment for vocal fold scar in humans.
2015-2016	Efficacy of water resistance therapy in subjects diagnosed with behavioral dysphonia: a randomized-controlled trial.

2014-2016	Water Resistance Therapy as Vocal Warm-Up Method in Comtemporary Comercial Music Singers.
2014-2016	Air pressure and contact quotient measures during different semi-occluded postures in subjects with different voice conditions.
2014-2016	Effect of water resistance therapy in subjects diagnosed with prebyphonia.
2014-2015	Comparison of supraglottic activity and spectral slope between theater actors and vocally untrained subjects
2014-2015	Comparison between physiologic and technical vocal warm-up in pop singers
2014-2015	Electroglottographic contact quotient during and after different semi-occluded vocal tract exercises in subject with functional dysphonia and subjects with normal voices.
2013-2015	Vocal tract and glottal configuration during and after straw phonation in subject with functional dysphonia: a computerized tomography study.
2013-2014	Aerodynamic, electroglottographic and acoustic differences between actors and non-trained voices.
2013-2014	Effect of three types of vocal warm-up protocols on acoustic, electroglottographic, and aerodynamic characteristics in teather actors.
2011-2012	Laryngeal and Pharyngeal activity during different semi-occluded vocal tract postures
2011-2012	Neuromuscular electrical stimulation in superior laryngeal nerve paresis.
2010-2011	Presence of supraglottic hyperfunction in vocalization in healthy opera singers.
2011-2012	Effect on Closed quotient of Semi-occluded vocal tract postures and vibrato.
2011-2012	Maxillary Dental Arch Form and Vocal Tract Length Related to Voice Classification in Singers.
2011	Phonatory mechanisms and resonance strategies in rock singers. Physiologic and Acoustic Characteristics.
2010-2011	Effect on Long term average spectrum of vocal function exercises in singers with normal voices.

2010-2011	Acoustical and perceptual voice quality categorization in professional radio broadcasters.
2010-2011	Influence of expression in the acoustic parameters of vibrato in opera singers.
2010	Therapeutic effect of semi-occluded vocal tract exercises in patient with type I Muscle Tension Dysphonia.
2010	Immediate effects of a vocal exercise sequence with resonance tubes.
2009-2010	The use of the Mobile Voice Laboratory During Type I Thyroplasty with Gore-Tex.
2009	Correlation between perceptual evaluation and acoustic parameters of Vibrato in Tenors.
2010	Effect on Long term average spectrum of basic emotions in theater actors.
2006	Voice and Psychotherapy.

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### **Supervision in doctoral and master thesis**

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Marcelo Saldias O'Hrens: Economic Voice Training for CCM Singers: Semi-occluded Vocal Tract Based –Techniques. (PhD)

Leticia Linfossi: Physiologic approach of voice therapy in voice disorders caused by Parkinson disease. (PhD)

Elizabeth Jaramillo: Air pressure and contact quotient measures during different semiocluded voice exercises in patients with unilateral vocal folds paralysis. (MSc)

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### **Clinical experience**

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2007-to date	Voice Pathologist and trainer at the Las Condes Clinic, Voice Center. Voice Therapy. Santiago, Chile.
2000-2007	Voice Pathologist in CIJ Medical Center. Voice Therapy. Santiago, Chile.
2002-2008	Voice Pathologist in San Jose Hospital. Voice therapy. Santiago, Chile.

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## **Awards**

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- First place on the “Top article contributing to the citescore” with 45 citations (Journal of Voice 2018).
- 6 articles by Marco Guzman are included in the ranking “Top 15 Social Media Articles” (Journal of Voice 2018).
- Journal of Voice Best Paper Award 2013 (Voice Foundation).

Guzman M, Laukkanen A-M, Krupa P, Horáček J, Švec J, Geneid A. Vocal Tract and Glottal Function During and After Vocal Exercising with Resonance Tube and Straw. Journal of Voice, 2013;27:305-311.

- Highly cited Paper Journal of Voice (2014).

Guzman M, Laukkanen A-M, Krupa P, Horáček J, Švec J, Geneid A. Vocal Tract and Glottal Function During and After Vocal Exercising with Resonance Tube and Straw. Journal of Voice, 2013;27:305-311.

- Best paper on phoniatric and audiology award in “XIX ENT WORLD CONGRESS-FOS”. Cecconello L, Guzmán M. Correlation between perceptual evaluation and acoustic parameters of Vibrato in Tenors. XIX ENT World Congress-IFOS 2009 Brazil. June 1-5, 2009. São Paulo, Brazil.
- 2007 Awarded with the “University of Chile Best Professor Award” He was voted as best professor of School of Communication Sciences in 2007.

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## **Memberships in associations**

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International Association of Logopedics and Phoniatrics (IALP).

Pan-American Vocology Association (PAVA)

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## **Scientific event organized**

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2019 Pan American Vocology Association Symposium. October, 2019, Universidad de los Andes.

1<sup>st</sup> Iberoamerican conference of professional voice and clinic. October, 2012. University of Chile.

1<sup>st</sup> Iberoamerican conference of speaking and singing voice. November, 2010. Argentina.

Seminar on physiologic approach of voice therapy. April, 2013. University of Chile.

Lessac-Madsen Resonant Voice Therapy Certification seminar. November, 2015.  
Universidad UCINF. Chile.

Seminar on voice rehabilitation. July, 2010. University of Chile.

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#### **Other merits and commissions of trust**

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Member of advisory board Pan-American Vocology Association.

Member of editorial board Journal of Voice (Voice Foundation).

Member of the local committee of 10<sup>th</sup> International Voice Conference on Voice Physiology and Biomechanics. Chile.

National Coordinator in Chile for the World Voice Day (Recommended by Dr. Ingo Titze and Dr. Johan Sundberg).

Member of foundation board of Pan-American Vocology Association.

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#### **Singing experience (performances)**

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2017	Soloist singer in graduation ceremony at the University of Tampere, Finland. Opera arias.
2011	Soloist singer in Gala of "Symposium on Semi-occluded vocal tract techniques" Salt Lake City, Utah, USA.
2012	Soloist singer in Gala of the "40th Annual Symposium: Care of the Professional Voice". Voice Foundation, Philadelphia, USA.
2013	Soloist singer in Global Festival 2011. Michigan State University. East Lansing, Michigan. USA.
2011	Soloist Singer in world voice day celebration. Lakeshore Professional Voice Center. Michigan, USA.
2010	Soloist Singer in German Requiem by Johannes Brahms. Ingham Festival, Michigan. USA.
2010	Singer in Michigan Opera Theater Choir. Michigan. USA.
2009	Soloist Singer in world voice day celebration. Lakeshore Professional Voice Center. Michigan, USA.
2008	Soloist singer in Global Festival 2008. Michigan State University. East Lansing, Michigan. USA.

2007	Soloist Singer in “Fono a mil Festival” Organized by Mayor University, Chile. Organized by the Mayor University. Musical songs and Opera arias.
2008	Soloist Singer in “Peace Chilean Award 2008 ” Organized by Foundation of Mundial Peace. Opera arias.
2007 August	Soloist singer in “Opera Journey Concert”. Manquehue Club. Chile. Opera arias.
2006 oct	Soloist singer in “Opera Journey Concert” Talca Municipal Theater, Chile . German Opera arias.
2006 sep	Soloist singer in “Cosi fa Mozart Concert” Catholic University of Chile. Mozart Opera arias.
2005 November	Soloist singer in “Lirical Concert for the Peace” Organized by Foundation of Mundial Peace. Opera arias.
2005 August	Soloist singer in “Leader Concert” . Manquehue Club, Chile. Opera arias.
2002-2003	Conductor of “School of Speech and Hearing Sciences Choir” University of Chile.
2001 December	Soloist singer in "Santiago Churches Concert" Santiago , Chile.
2002 July	Solo singer in “4th Musical Concert” University of Chile Theater. Mozart opera arias. The Marriage of Figaro, The Magic Flute.
2001 September	Solo singer in “3th Musical Concert” University of Chile Theater. Mozart opera arias. The Marriage of Figaro.
2001 - 2003	Singer in “Universitary Santiago Choir “
1999 - 2001	Singer in “Symphonic Choir of the University of Chile”