

CURRICULUM VITAE

ANA FLAVIA ZUIM

**Forensic Voice scientist
Lecturer of Otolaryngology
Vocologist**

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EDUCATION

PhD , comparative studies	Florida Atlantic University, Boca Raton, Florida	2012
<u>Vocology Certification</u>	University of Utah, South Lake City	2015

CONSULTANT

Serve as consultant in matters involving: vocology (voice science, vocal acoustics) voice recognition, vocal hydration, voice research, vocal coaching and singing training.

Vocology is the study of vocalization, which can include every aspect of human and animal sound-making in airways within the body; furthermore it is the science and practice of voice habilitation, which includes evaluation, diagnosis, and behavioral intervention. Vocology parallels audiology because in both cases there is a primary organ in the human body that becomes the focal point for care: in vocology it is the larynx, and in audiology it is the ear.

Vocologists combine an understanding of vocal anatomy, physiology, and acoustics, which are essential for interpreting how vocal tract configurations, laryngeal posture, and subglottic pressure can result in a specific vocal timbre. Altogether, these concepts allow for the forensic interpretation of a person's individual vocal features.

I pursued a vocology certification to deepen the knowledge acquired while working alongside the medical team at the Miller School of medicine, which in recognition for the work conducted via research and application of voice science in cases of voice recovery in singing post injury, I was honored with a secondary appointment as Lecturer of Otolaryngology at the Miller School of Medicine.

My specialties straddle both forensic work and performance. In addition to my forensic voice research and casework, I train Broadway and contemporary singers in the use of their voice, aiming for career longevity. I also work as a conductor on a variety of vocal performances on and off Broadway.

ACADEMIC APPOINTMENTS

New York University

Department of Music and Performing Arts Professions, Steinhardt School - NYU
Music Associate Professor of Vocal Performance 2022-present
Director of Vocal Performance - Music Assistant Professor of Vocal Performance 2016-2022

University of Miami Miller School of Medicine

Lecturer of Otolaryngology 2015-2016

University of Miami

Contemporary Voice Program Director 2013-2016
Lecturer - Vocal Performance 2009-2016

Miami Dade College - New World School of the Arts

Adjunct Faculty - Vocal Performance 2011-2012

Barry University

Adjunct Faculty - Piano Performance 2009-2010

Florida Atlantic University

Teaching Assistant 2007-2009
Assistant Director of FAU's Teaching Outstanding Performers (TOPS)
2008-2011

EXPERT WITNESS CASES

Experience testifying in court on criminal cases requiring voice recognition analysis

Reports written on cases involving:

- Voice recognition between two singers
- Voice recognition between incriminatory recordings and suspect's voice samples
- Voice recognition between files involving the aging voice
- Voice recognition of 911 call recording from suspected sex offender
- Voice recognition and comparison of voicemail recordings on criminal cases
- Recognition of vocal features that can discriminate a person's age
- Identification of phonetic features in speech
- Identification of presence of lack of rhoticity in pronunciation of specific words
- Various voice identifying features, working in conjunction with linguistics forensic experts and dialecticians

LANGUAGES

Fluent in English and Portuguese

RESEARCH - WORKS IN PROGRESS
IRB APPROVED, PENDING PUBLICATION

“Inter and Intra-Speaker Variability in Speech” - Principal Investigator
Co-Investigators: Susie Levi, Jenna Battipaglia, Geddy Warner, Harsh Pingle, Robert Leonard

“Source-Vocal Tract Interaction” - Principal Investigator
Co-Investigators: Karin Titze-Cox, Ingo Titze

“Prolonged laryngeal hydration for vocal fold stress relief and anti-inflammatory benefit” -
Principal Investigator
Co-Investigators: Aurélie Edwards, Dennis Ausiello, Deen Bhatta and David A. Edwards

“Vocal Dose of Individual Broadway Roles in Musical Theater: a Dosimetry Study” - Principal
Investigator
Co-Investigators: Celia Stewart, Ingo Titze

“Lifestyle Risks and Treatment Seeking Behaviors of CCM Performers” - Principal Investigator
Co-Investigator: Shirley Gherson

PUBLICATIONS

Zuim AF, Stewart C, Titze I. Vocal Dose and Vocal Demands in Contemporary Musical Theatre.
Journal of Voice, 2021. <https://pubmed.ncbi.nlm.nih.gov/34620516/>

Zuim AF, Lloyd AT, Gerhard J, Rosow D, Lundy D. Independence of Vocal Load from Vocal
Pathology Across Singing Genres. Journal of Voice, 2021.
<https://www.sciencedirect.com/science/article/abs/pii/S0892199721000084>

Zuim AF, Pacheco C, Bezerra A. Atuação Fonoaudiológica e Pedagógica na Produção Vocal no
Teatro Musical. Fundamentos e Atualidades em Voz Profissional; Editora Thieme-Revinter, 2021
(book chapter).

Zuim, A.F. Vocal diversity and the evolving field of contemporary voice pedagogy. *Places and
purposes of popular music education*. Intellect. (book chapter)

Zuim AF, Lloyd AT, Gerhard J, Rosow D, Lundy D. Associations of Education and Training
with Perceived Singing Voice Function Among Professional Singers. Journal of Voice, 2019 Oct
31. <https://pubmed.ncbi.nlm.nih.gov/31679926/>

Alshaiikh L, Zuim AF, Woolf K. Diet quality and physical activity patterns of musical theatre
performers. Current Developments in Nutrition 3(Supp 1):nzz050.P16-031-19, 2019
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6575104/>

Alshaikh L, Zuim A, **Wolf K**. Dietary and herbal supplement use among musical theatre performers. *Journal of the American Dietetic Association* 119(9):A79, 2019.
[https://jandonline.org/article/S2212-2672\(19\)30827-5/abstract](https://jandonline.org/article/S2212-2672(19)30827-5/abstract)

Gerhard J, Zuim AF, Lloyd A, Rosow DE. The Role of Observation and Mentorship in Voice Pedagogy Training. *Journal of Voice*. 2018 Oct 27.
<https://www.sciencedirect.com/science/article/abs/pii/S0892199718302273>

TELEVISION, RADIO SHOWS AND INTERVIEWS

- Chicago Radio Show** - Interview on the impact of the performance and academic work leading to serving as an expert witness on legal and criminal cases 2023
- CBS Mission Unstoppable Episode** - Featured voice scientist episode 2022
- The Stage Show** - [nationally broadcast performing arts program](#) on ABC Radio National in Australia - podcast interview 2022
- Stagecraft podcast** with Gordon Cox - How New Science Can Keep Broadway Voices Healthier
[Variety podcast link](#) 2022
- BAST training** - podcast interview 2022
- Futurity** picked up NYU's Q&A on new research that offers insight into the vocal demands of contemporary musical theater 2022
- Unifor and The Biz** - Science and Art - Fortaleza, Brazil 2019
- Bilingualism Newsletter** - BLLING (Bilingual Language and Literacy Investigative and Networking Group - NYU) 2018
- Bossa Magazina - Up Close and Personal - Interview with Ana Flavia Zuim Hamilton's Secret Weapon** 2018
2017
Interviewed by Eileen Reynolds from the NYU magazine
<https://www.nyu.edu/about/news-publications/news/2017/september/ana-zuim-hamilton-rehearsal-pianist.html>
- Go beyond** Interviewed by R.Evolución Latina's - Interview series entitled "Go beyond" in celebration to R.Evolución Latina's 10th year anniversary 2017
- Maestrina na Broadway (Conductress on Broadway)** 2017
Interviewed by the newspaper O Diário de Maringá
<http://digital.odiarario.com/cultura/noticia/2401471/maestrina-da-broadway/>
- Oxford University Press** 2016
Interviewed by Justin Patch from Vassar College.
"The Case for Pop Ensembles in the Curriculum: Amateurism, Leadership, Civics and Lifelong Learners. in 21st Century Music Pedagogy." Robin Moore, ed. Under Review at Oxford University Press.
- Interviewed by Brazilian Newspaper Portal Agora:** 2016
sharing with readers about the challenges faced since leaving a small town in Brazil and building a career in the US.
<http://www.portalagora.com/noticias/mostrar/id/47416/titulo/uma-mandaguariense-na-broadway>
- Interviewed by Mr. Zieg**, in Sao Paulo, Brazil 2013
<https://www.youtube.com/watch?v=rCAvGBIQbbI>

AWARDS AND HONORS

The American Prize for Conducting	
Winner for conducting <i>City of Angels</i> , NYU Skirball	2021
CEV - Centro de Estudos da Voz 40th anniversary	
Plaque of honor for “your dedication to overcome challenges, for your unique professional experience and generosity in sharing knowledge that inspires the world of voice.”	2021
The American Prize for Conducting	
Third place for conducting <i>Anything Goes</i> , NYU Skirball	2020
CEV - Centro de Estudos da Voz	
Plaque of work recognition for “your competence, generosity and talent in sharing science and art of the best quality. The recognition of your Brazilian colleagues for your contribution to the XXIII international symposium of the CEV.	2017
Carbonell Award Nominee	2016
Best Musical Director with the show <i>Billy Elliot</i> at the Maltz Jupiter Theatre.	
IRNE Winner - International Reviewers of New England Awards	2015
Best Musical Director with the show <i>Billy Elliot</i> at the Ogunquit Playhouse.	
Winner of the Florida Atlantic University Concerto Competition	2006
Performance of <i>Rhapsody in Blue</i> , by George Gershwin Boca Raton, Fl	

PROFESSIONAL ASSOCIATIONS

<i>The Voice Foundation</i>	2023
<i>Athens Institute of Education and Research</i> (ATINER)	2021-present
Academic Member - Arts and Culture and Language and Linguistics Unit	
<i>Pan American Vocology Association</i> (PAVA)	2015-present
<i>National Association of Teachers of Singing</i> (NATS)	2011-present

CONFERENCE PRESENTATIONS

Israeli Voice Association - Keynote Speaker	
“The Vocal Load of Professional Broadway Singers”	2023
“Broadway Singing Demands”	
IAFOR - The International Academic Forum; The 3rd Kyoto Conference on Arts, Media & Culture - Kyoto, Japan. Presenter and Session Chair.	
“Dosimetry Study publication findings on the Musical Wonderland”	2022

	Co-presenters: Dr. Ingo Titze, Dr. Celia Stewart	
ASHA - The American Speech-Language-Hearing Association		2022
	“Vocal Dose and Vocal Demands in Contemporary Musicals”	2022
	Co-presenters: Dr. Ingo Titze, Dr. Celia Stewart	
The Voice Foundation		2022
	“Early Investigation of Reported COVID-19 Symptoms in Singers.”	
	Co-presenters: Dr. Aaron Johnson, Dr. Justin Moniz, Nicholas Connoly	
Athens Institute of Education - Athens, Greece		2022
	“Source-Vocal Tract Interaction Trends Among Female Broadway Belters.”	
	Co-authors: Ingo Titze and Karin Titze-Cox	
PAMA - Performing Arts Medicine Association		
	“Dosimetry Study of Contemporary Lead Roles in Musical Theatre”	2022
The Voice Foundation		2021
	“Treatment seeking behaviors of CCM performers.” Co-presenter: Shirley Gherson	
Athens Institute of Education - Athens, Greece		2021
	“Correlation of Vocal Load and Student-Performer’s Perception of Vocal Effort During a Musical Theatre Production.” Co-authors: Ingo Titze and Celia Stewart	
Choice for Voice - London		
	“Lifestyle Risks and Treatment Seeking Behaviors of CCM Performers.”	
	Co-presenters: Shirley Gherson	
Association of Popular Music Education - Edinburgh, Scotland		2020
	“Pedagogical Tools for Maximizing Resonance by Increasing Vocal Tract Inertance for CCM Singers and Singer-Songwriters”	
	Work accepted for presentation, but conference was canceled due to the pandemic	
The Voice Foundation (virtual conference)		2020
	“A Voice Intake/Re-Assessment Form Toward Uniform Documentation for the Vocal Pedagogue”. Co-presenters: Rachelle Fleming and Julia Gerhard	
PAVA	“Documentation and Communication for the Voice Pedagogue.”	2018
	Co-presenters: Julia Gerhard and Adam Lloyd	
Voice Foundation		2018
	“The Association of Vocal Load with Vocal Pathology and Differences Across Singing Genres”. Co-authors: Adam Lloyd, Julia Gerhard, Sheryl Rifas-Shiman, Donna Lundy and Dr. David Rosow.	
Fall Voice Conference		2017
	“Classical, Musical Theatre and Contemporary Commercial Singers’ History of Vocal Pathology and Level of Vocal Health Support in Professional Productions”	
	Primary author. Co-authors: Adam Lloyd, Julia Gerhard, Sheryl Rifas-Shiman, Donna Lundy and Dr. David Rosow.	
Laryngology Society of Australasia Conference		2016
	“Associations of Education and Training with Perceived Singing Voice Function among Professional Singers.” Primary author. Co-authors: Dr. David Rosow, Dr. Julia Gerhard, Sheryl Rifas-Shiman and Adam Lloyd.	
PAVA	<i>Pan American Vocology Association Conference</i>	2016
	“Professional Singer’s Education and Current Performance Practice.”	

Co-authors: Adam Lloyd, Dr. David Rosow, Dr. Donna Lundy, Sheryl Rifas-Shiman and Amanda Demane.

	Fall Voice Conference	2016
	Panel discussion: "The Injured Performer: A team approach" Panel moderators: Dr. Lucian Sulica and Dr. Karin Titze-Cox Panel: Dr. Aaron Johnson, Dr. Ana Flavia Zuim, Dr. Brad Story, Dr. Marshall Smith, Dr. Christina Kang, Dr. David Lott, Dr. Blake Simpson.	
PAVA	<i>Pan American Vocology Association - South America Webinar Series</i>	2016
	1st Webinar in Brazil: "Semi-Occluded Vocal Tract Therapy and Training" Dr. Ingo Titze	
PAVA	<i>Pan American Vocology Association - South America Webinar Series</i>	2016
	2nd Webinar in Brazil/Portugal: "Motor Learning" Dr. Kittie Verdolini Abbott	
	Voice Foundation Conference	2016
	"A Survey and Mentored Practical Experience During Vocal Pedagogical Training Across Genres." Primary author. Co-authors: Dr. David Rosow and Dr. Julia Gerhard.	
PAVA	<i>Pan American Vocology Association Conference</i>	2015
	<ul style="list-style-type: none">• "Voice Teachers and Singing Voice Rehabilitation Specialists as part of the Extended Voice Team." Primary author. Co-authors: Dr. Julia Gerhard and Dr. Esther Jane Hardenbergh.• Guest Panelist for the Question and Answer Panel: Multidisciplinary Practice.• Guest Panelist for the Question and Answer Panel: The "Pan American" in Pava, alongside Brazilian Speech Language Pathologist Mara Behlau.	
RAAC	<i>Reciclagem e Atualização Clínico-Científica em Voz - 16a Edição</i>	2015
	<i>International Webinar - Sao Paulo, Brazil -</i> "Promoting Vocal Health to Contemporary Singers through the <u>Vocal Health Collaborative Partnership between the Frost School of Music and the Miller School of Medicine at the University of Miami.</u> "	
APME	<i>Association of Popular Music Education Conference</i>	2015
	"Reimagining the Traditional Jury: Moving Forward in PME." Discussion Panel: Daniel Strange, Dr. Ana Flavia Zuim, Dr. Brian Russell, Rey Sanchez and Dr. Carlos Rivera.	
	World Voice Day - University of Miami	2015
	"Cross-train your voice: the vocal mechanism and its use in multiple genres" Presentation by Dr. Maria Denison, Dr. Ana Flavia Zuim, Dr. Kate Reid and Dr. Rachel Lebon.	

WEBINARS

	III Simposio Iberoamericano de Canto Contemporaneo - LIPV	2023
	The Science Behind Vocal Overload in Musical Theatre and Contemporary Singing	
	CEV - Centro de Estudos da Voz	2021
	Vocal Pedagogy in a New Reality: Utilizing Technology in Voice Training	
	Universidade Santa Marcelina - São Paulo, Brazil	2021
	Vocal Pedagogy and Vocal Acoustics	
	Faculdade Novo Horizonte - Pernambuco, Brazil - A Voz no Teatro Musical.	2021

Principia College - Career Workshop in Vocal Performance	2020
LaborVox - PUC (Pontificia Universidade Catolica de Sao Paulo) Topic: Vocal Acoustics for Musical Theatre Singing Training	2019
LaborVox - PUC (Pontificia Universidade Catolica de Sao Paulo) Topic: Vocal Pedagogy	2018
PAVA in Chile - 1st Webinar with Dr. Ingo Titze, Marco Guzman, Karin Titze Cox, et al.	2017
PAVA in Brazil - 1st Webinar with Dr. Ingo Titze, Dr. Kittie Verdolini, Dr. Lynn Maxfield	2017
IOCP - Instituto de Otorrinolaringologia e Cirurgia de Cabeça e Pescoco	2017

WORKSHOPS, MASTERCLASSES AND SEMINARS

Israeli Voice Association - four masterclasses series: The application of: vocal acoustics in singing; semi occluded vocal tract exercises; belting strategies; mindfulness and stretching.	2023
Rimon School of Music, Israel - Masterclasses series: Communicating through song; the importance of speech inflection in performance; releasing vocal pressure in belting and beyond.	2023
The Pennsylvania State University - Masterclass on vocal technique and styles	2022
Faculdade Novo Horizonte - Pernambuco, Brazil - Technical parameters of voice production in performance.	2021
Universidade Santa Marcelina - São Paulo, Brazil Guest Faculty contributing with a series of lectures for students in Vocal Pedagogy	2021
GIPA - Graduate Institute of Performing Arts, National Taiwan Normal University Seminar, Workshop and Masterclasses - Voice and Piano Performance Judge and Master Teacher for the 1st Musical Theatre Collaborative Piano Competition	2019
CEV - Centro de Estudos da Voz Vocal Acoustics/Vocal Pedagogy Workshop/Seminar	2019
UNIFOR - University of Fortaleza and THE BIZ - School of Musical Theatre, Brazil Lecture on Vocal Health and Acoustics to the Faculty of the Graduate Program Masterclass to the Musical Theatre Students Workshop to the actors of the production of <i>Rent</i>	2019
Vocology in Practice Workshop - Mount St. Mary's University, California Vocal Pedagogy and Vocal Acoustics - Strategies and Vowel Charts	2019
The Voice Foundation Conference Applying Prosody of Language Strategies to Enhance the Dramatic Delivery of a Song and Facilitate the Discovery of Appropriate Vocalisms in Various Musical Theatre and Contemporary Styles.	2018
GIPA - Graduate Institute of Performing Arts, National Taiwan Normal University Seminar, Workshop and Masterclasses.	2018
Steinhardt Pilot Grant Writing Workshop - Participant	2018
Contemporary Vocal Strategies Workshop - Program Meeting, Steinhardt	2017
Summer Contemporary Vocal Workshop Director and creator of the curriculum for contemporary vocal studies at NYU Steinhardt's Contemporary Vocal Workshop	2017-present
CEV - Centro de Estudos da Voz - Contemporary Voice Workshop/Seminar	2017
Londrina, Parana - Contemporary Voice Workshop/Seminar	2017

Maringa, Parana - Broadway Workshop	2017
SVI - Summer Vocology Institute	2017
Master teacher of Contemporary Voice - Workshop/Seminar	
Vocology in Practice Workshop - San Francisco, California	2017
“Vocal Acoustics and Acoustical Strategies for Contemporary Singers”	

SERVICE

PHD THESIS AND MM ADVISING

Graduate Advisor - Steinhardt School, NYU	2016-present
Jessica Lee’s advisor and dissertation committee chair - Steinhardt School, NYU	2016- present
Nicholas Connolly doctoral advisor - Steinhardt School, NYU	2018- present
Andressa Marinoni, Master’s Thesis. Dissertation Committee. PUC, Brazil	2019
Paul Spiser, Ph.D. in Vocal Performance. Committee member. NYU	2017 - 2019
Joshua Glasner, Ph.D. in Vocal Performance. Dissertation Committee. NYU	2017 - 2019
Bryan Hayslett - Committee Member, Doctorate Dissertation - Steinhardt School, NYU	2019
Ethan Helm - Doctoral Candidacy Review	2019
Brittney Redler - Outside reader of Doctorate Dissertation - Steinhardt School, NYU	2018
Rachel Whorton - Outside reader of Doctorate Dissertation - Steinhardt School, NYU	2018
Maria Dodorro dissertation proposal defense - Steinhardt School, NYU	2018
Tristan McKay, Ph.D. in Piano Performance. Committee member. NYU	2017
Carlos de Sotto, MM - Master’s Thesis. Committee member. University of Miami	2016
Jenna Lee Moore, DMA - Lecture recital. Committee member. University of Miami	2016
Elina Sherman, MM - Master’s Thesis. Committee member. University of Miami	2016

BOARDS, COMMITTEES AND JOURNALS

International Journal of Music Education - Reviewer	2022
PAVA Latin America Governor - Board of Directors	2018 - 2022
In the Works, In the Woods at Forestburgh Playhouse - Advisory Committee	2021
Reviewer of Book Proposal for Plural Publishing	2019
PAVA’s Board Election Committee member	2018
Search Committee member NYU searches - Steinhardt, NYU	2017-2021
Interim South and Central America Governor PAVA Board of Directors	2017 - 2018

Editor at a peer review journal - *DIC. Revista Distúrbios da Comunicação*

2017 - present

Chair of PAVA's Board Election Committee

2017