

SUMMARY OF QUALIFICATIONS

- Speech models for cross-cultural research on charisma, personality, and emotions oriented to public speaking; Psychoacoustic models of voice quality for research in the medical field
- Research oriented background with results driven by quantitative and qualitative voice and speech analysis, human subjects research, and statistical analysis
- Advanced expertise in collecting large corpora with cutting-edge methods (acoustics, ultrasound, aerodynamics, etc.); Crowdsourcing language-related data collection of humans' charismatic traits
- Extensive expertise in acoustic analysis of dynamic and steady-state parameters of human voice corpora (pathological voice, political speech, multi-lingual audio-visual communication)
- Advanced expertise in designing research experiments and developing psychometric tools to measure humans' psychological traits (personality, leadership status, emotions) from non-verbal behaviors (voice, facial expressions)
- Extensive expertise in human subject research on the field (linguistics, psychology), in laboratory settings (speech sciences), and using crowdsourcing (micro and macro tasks on the web)
- Dynamic skills in developing scientific projects in an interdisciplinary context (general linguistics, voice and speech sciences, psychology, computational linguistics, economics, computer science, anthropology, primatology)
- Excellent communication skills in interpreting technical methods and results to audiences of various backgrounds
- Lead researcher on voice in political speech that is published in scientific journals and featured by international media
- Proficiency in R (psych, GPArotation, corpcor, smacof, cmdscale), SPSS, PERL, MySQL, PHP, JavaScript, Limesurvey (on-line surveys), UCLA voice analysis software (Inverse Filter, Sky, Synthesis), Praat scripting language, STRAIGHT, Audacity, SPPAS, VoiceSauce (MatLab), Microsoft Access, XML, XHTML, CSS, LaTeX, LyX, JabRef, CMS, Adobe Acrobat Pro and Photoshop, Google Drive Apps, MS Office, E-learning (Moodle, Hot Potatoes)
- Fluent in Italian, Sicilian, English (US), and French (French). Basics Spanish (California) and Portuguese (Brazil)

EXPERIENCE

CNRS (French National Institute for Scientific Research) and Université Sorbonne-Nouvelle, Paris 3

Postdoctoral Researcher in Phonetics and Speech Sciences at the Laboratoire de Phonétique et Phonologie, Oct. 2016 – present

- ANR Project "ArtSpeech" (articulatory speech synthesis) and Labex EFL (Empirical Foundations of Linguistics)

University of California, Los Angeles - David Geffen School of Medicine - Dept. of Head and Neck Surgery

Postdoctoral Researcher in Voice Sciences at the Bureau of Glottal Affairs, March 2014 – August 2016

- Principal investigator of an international research project on 'Vocalizations in Human and Non-Human Leadership'
- Contributed to develop the first psychoacoustic perceptually-validated model of voice quality
- Conducted quantitative and qualitative research based on acoustic measures, perceptual testing, and statistical analysis
- Contributed to ameliorate the inharmonic noise spectral model for the UCLA copy-synthesis software 'Synthesis'
- Lecturer in Voice Sciences at the UCLA Dept. of Musicology

CNRS (French National Institute for Scientific Research)

Research Associate with GIPSA-lab, Grenoble, France, October – November 2013

- Collected articulatory, aerodynamic and physiological data of Vietnamese and Brazilian Portuguese speakers

CELI France SAS (now Holmes Semantic Solutions SAS)

Intern in computational linguistics and programming, Grenoble, France, June – July 2009

- Programmed PERL scripts for entity extraction for sentiment analysis from clients' feedbacks on commercial products

EDUCATION

Université Grenoble-Alpes, France and Università degli Studi Roma Tre, Italy

Doctor of Philosophy international double program in Linguistics and in Psychology, January 2014, GPA: Highest Honors

- Developed a psychological tool to measure charisma and emotions from human behaviors (MASCharP)
- Collected the first phonetically-annotated cross-cultural political speech corpora (4 languages, 10 speakers, 3 contexts)
- Investigated cross-cultural influence of voice quality pattern in the perception of leaders' charisma
- Developed methodology to obtain acoustic profiles of political speech across cultures, languages, and genders

Université Stendhal, Grenoble 3, France – *Masters of Arts* in Computational Linguistics, June 2010, GPA: 17/20

Università degli Studi di Palermo, Italy – *Bachelor* in Languages and Web Technologies, Mars 2007, GPA: 107/110