

SONIA CENCESCHI



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EDUCATION

February 2019 **PhD (cum Laude) in Information Engineering**
Thesis: “Speech analysis for Automatic Prosody Recognition”
Politecnico di Milano (Italy) – Italian Government Scholarships

November 2012 **Master degree in Electronic Music and Sound Technologies**
Thesis: “Study of the perceptual and semantic divergence of digital audio processed by restoration algorithms”
Conservatory of Music G. Verdi, Como (Italy) – Grade: 102/110

February 2008 **Bachelor degree – Civil and Environmental Engineering**
Thesis: “Acoustic analysis of the Lux Theatre”
University of Pisa (Italy) – Grade: 88/110

July 2010 **SaMPL summer school - Audio Conservation and Restoration**
Information Engineering University of Padua & Conservatorio “C. Pollini”

October 2015 **Classical guitar**
Conservatory of Music G. Verdi, Como (Italy) Reached level: Pre-academic

EMPLOYMENT HISTORY

09/2018 – Ongoing **SUPSI University – Digital Forensics Services, Lugano, Switzerland.**
Research and project development activities.

02/2015 – Ongoing **Audio Forensics Expert – Professional activity, Italy and Cantone Ticino.**
LEAs expert. Audio Digital Expert for the criminal sector at the Court of Como.

2017 – 2018 **SUPSI University – Digital Forensics Services, Lugano, Switzerland.**
Periodical professional collaborations as Speech analysis expert in digital forensics courses.

06/2018 – 10/2018 **Politecnico di Milano – ARCSLab, Milan, Italy.**
Research collaboration on Lend Your Voice project for speech analysis and recordings.

10/2017 – 12/2017 **University of The Basque Country – SPIN Lab, Bilbao, Spain.**
Study and design of an automatic algorithm for the detection of the focus in Italian speech.

05/2017 **SAiLR Workshop Software for Likelihood Ratio Calculation – Netherlands Forensic Institute, The Hague.**
SaiLR software for analysis and implementation of Likelihood Ratios.

04/2015 – 09/2015 **Politecnico di Milano – ARCSLab, Milan, Italy.**
Assistant professor in speech analysis. Courses: “Accessibility: models and applications” and “Natural Language Processing”.

04/2015 – 09/2015 **Politecnico di Milano – ARCSLab, Milan, Italy.**
Study and design of prosodic analysis applications in second language acquisition for people with dyslexia or hearing loss.

01/2014 – 04/2015 **University of York – Linguistic Department, York, UK.**
Deepening audio forensics techniques and methodologies with J P French professionals.

PUBLICATIONS

2019 **A proposal for the scientific disclosure of speech analysis in audio forensics.** Cenceschi S., Trivilini A., Dencicolà, XIII AISV National conference on Voice Science. [conference proceedings] <https://urly.it/311p6>
Collecting Italian spontaneous social media speech: the WAsp2 project. Cenceschi S., Trivilini A., Sbattella L., Tedesco R., XIII AISV National conference on Voice Science. [conference proceedings] <https://urly.it/311p6>
Speech and language processing for critical interactions: (Computational Analysis of) Emotion, motivation, and personality in forensics, clinics, and education. Sbattella L., Tedesco R., Cenceschi S., Springer Brief book, Polimi series. [ongoing work]



2018 **Verso il riconoscimento automatico della Prosodia.** Cenceschi S., Sbattella L., Tedesco R., STUDI AISV N°2: La fonetica sperimentale nell’insegnamento e nell’apprendimento delle lingue straniere (Pisa, Italy). [chapter in book] <https://urly.it/311p7>
Towards Automatic Recognition of Prosody. Cenceschi S., Sbattella L., Tedesco R., Speech Prosody Conference 2018 (Poznan, Poland). [paper in conference proceedings] <https://urly.it/311p8>
Influence of semantics on the perception of corrective focus in spoken Italian. Cenceschi, S., Sbattella, L., Tedesco, R., ExLing Workshop 2018 (Paris, France). [paper in conference proceedings] <https://urly.it/311pb>
The influence of lexicon, phonotactics and intonational components on the comprehension of spoken Italian utterances. Cenceschi, S., Sbattella, L., Tedesco, R., Speech and Language, SAGE Journal (submitted). [journal paper] <https://urly.it/311q1>

- 2017 **Similarities and differences on the legal application of forensic phonetics in Italy and in Brazil.** Sigales Gonçalves J. S., Cenceschi S., International Association of Forensic Linguists conference 2017 (Porto, Portugal). [conference paper] slides: <https://urly.it/311pd>
- The definition of a descriptive space of prosodic forms: The CALLIOPE model.** Sbattella L., Tedesco R., Cenceschi S., XII AISV National conference on Voice Science. [conference paper] <https://urly.it/311pg>
- Speech improvement for intellectual disabilities and autism: an experimental study on technological supports.** Sbattella L., Tedesco R., Imperatori Gelosa A, Cenceschi S., Cordaro G., Rubino G., EDULEARN conference 2017 (Barcelona, Spain). [conference paper] abstract: <https://urly.it/311pj>
- 2016 **Crises during forensic examinations: observations and measurements in Italian spontaneous speech.** Sbattella L., Tedesco R., Cenceschi S., International Association for Forensic Phonetics and Acoustics Conference, 2016 (York, UK). [conference poster] <https://urly.it/311pm>
- Acoustic and grammatical characterization of crisis-related babblings in Italian persons undergoing Courts-of-Law examinations.** Sbattella L., Tedesco R., Cenceschi S., ITG Conference on Speech Communication 2016 (Paderborn, Germany). [conference paper] abstract <https://urly.it/311pq>
- BaO: the BABy Orchestra – an interactive game.** Cenceschi S., Treccozi M. T., CIM Music Informatics Conference 2016 (Cagliari, Italy). [conference paper] <https://urly.it/311py>
- 2015 **Potentialities and gaps of sound engineering applied to phone-calls interceptions.** Cenceschi, S., SUPSI University, Digital Forensics Lab, Conference for students and law professionals (Lugano, Swiss). [conference – invited speaker] <https://urly.it/311pz>
- Study of the perceptual and semantic divergence of digital audio processed by restoration algorithms.** Cenceschi S., Klauer G., The International Computer Music Conference ICMC-SMC 2014 (Athens, Greece). [conference paper] <https://urly.it/311p->
- Role and techniques of recovery for dissemination purposes of historical documents and the research of a predictive strategy of digital restoration.** Cenceschi S., Praise of the digital - De Martino 2015 Institute Journal (Florence, Italy). [Italian journal]
- 2014 **KaSPAR: a prosodic multimodal software for dyslexia.** Sbattella L., Tedesco R., Cenceschi S., ICERI Conference 2014 (Sevilla, Spain). [conference paper] <https://urly.it/311pa>






AWARDS

- 10/2018 **Investigation & Forensic Awards** – premio Eccellenza, settore *Informatica e Telefonia forense*
- 06/2018 **Studentship** – “**Andrea Paoloni**”
Associazione Italiana Scienze della Voce: conferences funds
- 07/2016 **Polisocial award 2015** – Winner as member of the ARCSLab group Polimi
Financing of the two-year project LYV-Lend Your Voice (January 2017 – December 2018).
- 06/2017 **Studentship** – “**Andrea Paoloni**”
Associazione Italiana Scienze della Voce: conferences funds
- 12/2014 **Professionalism Project “Ivano Becchi” - Banca del Monte di Lombardia**
Funds for a specialization period in a foreign country
- 06/2013 **“Lombardy Start project” for planning and economic management**
Business Plan evaluation and free training course for her Audio Forensics Business (CENCOR).
Como chamber of commerce and Industry

FOREIGN LANGUAGES

English		B2 – Studied since primary school; used at work and in social life
Spanish		A2 – Excellent comprehension; used at work and in social life

COMPUTER SKILLS

Basic Software	Microsoft Office, OpenOffice, LibreOffice	
Speech analysis	PRAAT	
Sound analysis	iZotope RX / Speech analyzer etc. / Max/MSP	
Sound editing	Audacity, Pro Tools etc.	
Programming language	Python, R	

INTERPERSONAL SKILLS

Fast learner in acquiring new skills - Proactive and flexible - Good problem-solving and analytical skills - Solid multitasking and organizational abilities - At ease with multicultural environment - Able to operate constructively in a team - Hardworking and result oriented - Capable of working effectively in stressful conditions under tight deadline - Able to manage tasks independently.

VARIOUS

Guitar player, passionate reader and walker – Driving license, A/B