

## Résumé

- 📋 **Project management:** supervision of data production projects at national and European level; team management to ensure that tasks are shared and objectives are achieved; publication and maintenance of public or proprietary software libraries.
- 🗨️ **Natural Language Processing:** formalisation of language structures for automatic analysis in multilingual application; prompt engineering, information structuring, and performance evaluation in LLM's development.
- 📊 **Data processing:** ability to manage large quantities of data in multiple formats; processing of large corpora of image, signal, text, and speech; conversion into suitable data to train artificial neural networks; evaluation of neural networks and their responses in multiple tasks.
- 🗣️ **Phonetics:** study of the influence of prosodic position on vowels, of written-oral differences, and of individual characteristics of speakers on acoustic parameters; phonetic annotation according to different conventions; comparison between different techniques for extracting acoustic parameters from speech corpora.
- 💻 **Programming and scripting languages:** Bash, C++ (basics), Docker, Git, HTML, Java, Javascript, LaTeX, MatLab, Perl, Praat, Python, R, Swift, XML.
- 🗨️ **Communication:** presentations given in several environments (poster, conference, teaching, team meetings); leading team meetings on problem solving and improving applied methodologies.
- 🗣️ **Languages:** mother tongues Italian and Neapolitan; fluent spoken and written French (France), English (international), Portuguese (Portugal); understanding of Spanish; basic knowledge of German and Japanese.
- 👥 **Teamwork:** ability to manage different points of view and priorities; participation in multidisciplinary projects; practice of team sports for 10 years.

## Experience

- 04/2024 – ongoing | **AI researcher** *Advanced Topographic Development and Images, Paris.*  
Research and development as well as piloting an AI team to integrate innovating technologies in the existing software solutions: characterise and analyse signals from known or unknown sources; image processing for topographic improvement through obstacle recognition; RAG and LLM application specific to the telecommunication domain.
- 01/2023 – 03/2024 | **Project manager in language technologies** *Evaluations and Language resources Distribution Agency, Paris.*  
Supervision and monitoring of language technology projects for French and international partners: European Commission (2 projects on under-resourced languages and language data sharing); Radio France (2 projects on data annotation); 3 other projects for undisclosed clients on data enhancement.
- 09/2018 – 09/2022 | **PhD in Phonetics, Phonology and Speech Sciences** *Université Sorbonne Nouvelle - Centre National de la Recherche Scientifique - Laboratoire de Phonétique et Phonologie, Paris.*  
Thesis in English "Speech components in phonetic characterisation of speakers: a study on complementarity and redundancy of conveyed information".
- 09/2017 – 06/2021 | **Teacher.** *Université Paris Descartes - Université Sorbonne Nouvelle, Paris.*  
Computer science, General linguistics, Research methodology, and Statistics for the 1<sup>st</sup> and 3<sup>rd</sup> years of Language Sciences degree.

## Education

- 09/2016 – 07/2018 | **Master degree Natural Language Processing** *Université Sorbonne Nouvelle, Paris.*  
**Internship.** *Laboratoire d'Informatique pour la Mécanique et les Sciences de l'Ingénieur, Orsay.*
- 09/2014 – 05/2016 | **Master degrees in International Relations and in Sociolinguistics**  
*Université Sorbonne Nouvelle, Paris.*
- 10/2011 – 07/2014 | **Bachelor's degree & LPP Erasmus in General and compared Linguistics**  
*Università Suor Orsola Benincasa, Naples - Université Sorbonne, Paris.*