

## Personal and Contact Details

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## Professional Profile and Objectives

Cognitive neuroscientist dedicated to transitioning to industry.

Independent researcher specialized in human brain electrophysiology and signal analysis with extensive practical experience in maintaining and running labs and studies to deliver publishable results. Qualified in developing state-of-the-art approaches in brain imaging analysis and methods with proprietary software and high-level general-purpose programming. Seeking to leverage research and project manager expertise for translational and practical objectives.

## Experience

Research Staff, HiLIFE - NC, University of Helsinki 08/2021 - 08/2022  
 INP - CCNi, University of Glasgow 08/2019 - 07/2021

- Organized and managed the newly-established Glasgow lab and research group, then by coordinating with the core members in Helsinki and vice versa.
- Designed, developed and employed tools for quantification and correlation of critical measures of brain activity in large datasets of epileptic patients and control participants.
- Day-to-day inter-disciplinary collaboration with brain imaging physicists, neurologists, IT-experts, data analysts and programmers with niche expertises to maintain the core infrastructure of the study, as well as to contribute to the scientific output.

Research Staff, CCNS, University of Salzburg 03/2014 - 03/2019

- Financial and technical administration and contact with clinical equipment manufactures for setting up imaging machinery. Consequently, running the new neuro-stimulation division.
- Foundation of a multimodal system of non-invasive neuro-electrophysiology combined with neuro-stimulation for an EU-funded research project.
- Organizer of an international conference, in charge of the technical aspects (audio-visual, presentation software and compatibility, network and internet feed setup, other IT needs).
- Collaboration in a study using machine learning and Bayesian model validation techniques.
- Teaching and mentoring PhD and MSc students.

Research Collaborator, Dartmouth College 07/2014 - 09/2016

- Data acquisition, management, analysis and coordination between research centres for a multimodal machine learning study.

Research Associate, CIMeC, University of Trento 10/2011 - 10/2014

- Representative for a collaboration within the ITPAR project (India-Trento Program for Advanced Research).
- Customer relations in university support offices and student assistance.

Research Collaborator, FIL - UCL 01 - 07/2013

- Organizer and teacher of an international workshop on software I contributed developing.

## Core Skills

Programming, MATLAB, Python, VB, HTML, SPSS, Git, bash scripting.

Computing, Windows and Linux computer environments, services and policies, word processing programs, spreadsheets, databases, browsers, web design, network management, multimedia, image and audio processing.

Data analysis, classical and Bayesian statistics, feature extraction, supervised / unsupervised machine learning, boosting, kernel methods, embedding.

Signal processing, artifact cleaning, filtering, interpolation, beamforming, spectral analysis, control systems, complex analysis, audio and image manipulation.

Research, experimental design, behavioural testing, brain imaging, neuroanatomy, data acquisition, MEG, EEG, tCS, fMRI, eye-tracking, custom-built resampling and permutation tests, modelling, simulation, optimization, scientific figure-making, paper writing, teaching.

Management, research project coordination, grant delivery planning and scheduling, lab leadership, data flow, quality control, organizing international workshops and conferences, customer relations, company liaison, meeting moderation, conference speaker.

## Education

Doctoral Degree, cum laude, Cognitive Neuroscience, University of Trento, Italy 10/2014 – 03/2018

Master Degree, cum laude, Cognitive Neuroscience, University of Trento, Italy 09/2011 - 12/2013

Bachelor's Degree, cum laude, Cognitive Neuropsychology, La Sapienza, Italy 09/2008 - 07/2011

## Languages

*Mother tongue* **Italian**

*Second Language* **English (C2)**

*Other Languages* Spanish (B2); French (A2); German (A2)

## Publications

For a full list of Peer-Reviewed Articles and Conference Proceedings see [here](#) 