

Personal information

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My studies in music and psychology allowed me to develop knowledge about the interaction between cognitive processes and music. Experimental design, creativity, recruitment, management, problem-solving, and critical thinking are some of the skills I developed throughout my research and teaching experiences.

Programs

Jamovi, Jasp, RStudio, Matlab, Psyt toolkit, Experiment Builder, Audacity, Kdenlive, Inkscape.

Education

2019 - 2022: PhD at the LEAD-CNRS UMR 5022, Laboratoire d'Etude de l'Apprentissage et du Développement, Université Bourgogne Franche-Comté, Dijon, France.

2019: Professional qualification for the profession of psychologist (Esame di Stato), Università Luigi Vanvitelli, Caserta, Italy.

2007 - 2017: Diploma in viola (MA in viola, including musical theory and solfeggio, piano, harmony, history of music, quartet and orchestra) at the San Pietro a Majella Conservatory, Naples, Italy.

2014 - 2017: MA in Psychology: Human resources, cognitive ergonomics, cognitive neuroscience, University of Naples - Suor Orsola Benincasa. Thesis: "Comparing musical training: effects on long term memory".

2014: Specialization course in "Theory and practice of musical cognition: Psychology, education and neuroscience", University of Pavia.

2010 - 2014: Bachelor's degree in technological and scientific fundamentals of cognitive psychology, University of Naples - Suor Orsola Benincasa. Thesis: "Music as a language".

Research activities

2023 - : Post-doc at the LEAD, Université de Bourgogne, Dijon, France on the PreMusic Project, investigating the effect of rhythmical stimulations during the development of premature babies.

2019 - 2022: PhD students at the LEAD, Université Bourgogne Franche-Comté, Dijon, France.

Thesis project:

- “Acquiring music knowledge: an incidental approach”, supervised by Prof. James R. Schmidt and in collaboration with Dr. Bénédicte Poulin-Charronnat and Dr. Iva Šaban (LEAD).

Other projects:

- “The effect of musical priming in the Serial Reaction Time Task”, in collaboration with Dr. Yannick Lagarrigue, Prof. James R. Schmidt, Dr. Barbara Tillman and Dr. Arnaud Witt (LEAD).
- “Learning music through time perception, an EEG approach”, in collaboration with Prof. James R. Schmidt, Dr. Bénédicte Poulin-Charronnat (LEAD) and Prof. Sonja Kotz (BandLab).

2017 - 2018: Internship at the University of Pavia, Italy and the Center for the Music in the Brain (MIB), Aarhus, DK.

Involved in the following projects:

- “The role of mental practice on memory performance”, in collaboration with Dr. Elvira Brattico, Dr. Leonardo Bonetti (MIB), the Royal Academy of Music Aarhus/Aalborg (RAMA) and the Conservatory of Music of Naples.
- “Music evolves adapting to the human brain: an MRI Investigation” in collaboration with Dr. Massimo Lumaca (MIB).
- “Brain connectivity and behavioral changes associated to music training: an fMRI study in preadolescents” in collaboration with Dr. Pauline Cantou (MIB).

List of publications

- **Iorio C.**, Šaban I., Poulin-Charronnat B., Schmidt J.R., “*Incidental Learning in Music Reading: The Music Contingency Learning Task*”, (2022, Quarterly Journal of Experimental Psychology).
- **Iorio C.**, Brattico E., Munk Larsen F., Vuust P., Bonetti L., “*The effect of MP on music memorization*”, (2021, Psychology of Music).
- Schmidt J.R., **Iorio, C.**, Poulin-Charronnat B., “*Automatizing sight-reading: Contingency proportion and the task relevance in the musical contingency learning procedure*”, (submitted).
- **Iorio, C.**, Bigand, E., Schimdt, J.R., “*Incidentally acquiring pitch-label associations with a musical contingency learning task*”, (submitted).
- **Iorio, C.**, Kotz, S., Schmidt, J.R., “*Learning music through time perception*”, (in preparation).

Talks and Communications

2022: “Nuit européenne des chercheurs”, communications about my thesis addressed to non-scientific community (scientific vulgarization, oral communications).

2022: “Incidentally acquiring pitch-label associations with a musical contingency learning task”, Escop, Lille FR, (poster).

2022: “The effect of auditory rhythmic priming on motor sequence learning”, at the Forum des Jeunes Chercheurs/es, (poster).

2022: “Experimentarium”, communications about my thesis addressed to scholars and non-scientific community (scientific vulgarization, oral communications).

2021: “Incidental learning in music reading: a modified version of the musical Stroop task”, at the ICMPC, online (poster).

2021: “Incidental music learning with a contingency paradigm”, at the Forum des Jeunes Chercheurs/es, online (poster).

2021: “The effect of mental practice on music memorization”, at the Neuromusic VII, online (poster).

2021: “Acquiring Musical Skills Without the Goal to Learn”, at the Colloque des Jeunes Chercheurs/es, online conference organized by Fresco (Talk).

2021: “Investigating mental practice (MP) effect on music memorization” at the Center for the Music in the Brain (MIB), Aarhus, Denmark (Talk).

2019: “Can mental practice be a pedagogic tool for improving memory in music performance?” at the Apulian Mini-Symposium on Music Psychology, Education, and Neuroscience, Bari, Italy (Talk).

2017: “Musical languages” at the Mozart Association, Turin, Italy (Talk).

Scholarship

2021: Bourse EOLE, Réseau Franco-Néerlandais.

2021: Erasmus+, Université Bourgogne Franche-Comté.

2021: Bourse École Doctorale Université Bourgogne Franche-Comté.

Teaching Experience

2020 - 2022: Instructor at the Université Bourgogne Franche-Comté, courses in Cognitive Psychology and Psychology of Memory.

2022: Supervisor of bachelor students during their research stage at the Université Bourgogne Franche-Comté.

Musical activities

2017 – to date: Project manager (scientific and cultural) of IAAMS, Italian Academy for Arts, Music and Science, Naples, Italy ([IAAMS page](#)).

2011 - 2019: Several concerts in Italy (Naples, Capri, Milano, Capua, Caserta, Salerno, Perugia), China (Schenzen, Zuhai, Huichang), Denmark (Aarhus, Vejle), France (Dijon).

2017: Artistic Director for the musical review “MusicAscolto in Salotto” in collaboration with IAAM (Italian Association for Arts and Music), Naples, Italy.

2015 - 2017: Violin teacher at the IAAM (Italian Association for Arts and Music), Naples, Italy.