MAJ 09/2025

Bartoletti Roxane

Post-doctorante, Cognitive Psychology
Nîmes Université
APSY-V Laboratory

ChEAp-K project (**Ch**allenging the **E**volutionary **Ap**proach to **K**nowledge)

THEMATIQUES DE RECHERCHE

My research interests are centered on multisensory perceptions of humans and their impact on cognition.

Key words: multisensory environments; cognitive performances; personalization; music; odors; aging

PUBLICATIONS PRINCIPALES

Bartoletti, R. L., Denis-Noël, A., Langenecker, S. A., Steiner, D., & Corveleyn, X. (under review). Alternative Forms of the Parametric Go/No-GO Task: Development and Comparison. *Journal of Clinical and Experimental Neuropsychology*. (Q2 ; IF : 1,8).

Bartoletti, R. L., Corveleyn, X. (under review). An Integrative Cognitive Model for Multisensory Design: Benefits and Risks of AI-Personalization. *Frontiers in Computer Science - Human-Media Interaction*. (Q1 , IF : 2,4).

Bartoletti, R. L., Denis-Noël, A., Boulvert, S., Lopez, M., Faure, S., & Corveleyn, X. (2023). Visuo-Tactile Congruence Leads to Stronger Illusion Than Visuo-Proprioceptive Congruence: a Quantitative and Qualitative Approach to Explore the Rubber Hand Illusion. *Multisensory Research*, *36*(6), 477-525. https://doi.org/10.1163/22134808-bja10101 (Q3 ; IF : 2,352)

Forestier, C., de Chanaleilles, M., Bartoletti, R. L., Cheval, B., Chalabaev, A., & Deschamps, T. (2023). Are trait self-control and self-control resources mediators of relations between executive functions and health behaviors? *Psychology of Sport & Exercise*. https://doi.org/10.1016/j.psychsport.2023.102410 (Q1 ; IF : 5,118)

PROJETS ET FINANCEMENTS

(1) **ChEAp-K project:** The general objectives are to use a standardized method for testing knowledge types (problem content) across all axes, while tailoring it to test the utilization of a specific theoretical approach in the addressed domain. Thus, we will examine the impact of knowledge types on language learning, statistics learning, and reasoning. By doing so, we aim to investigate the mechanisms involved in different tasks based on the knowledge types involved. The axes can be considered as ranging from the most specific/pragmatic to the most general (in terms of the mechanisms of task resolution).

Anosmia, hyposmia and autobiographic memories: Olfaction is a sense particularly linked to memory, executive functions and emotions, and this relationship has been observed numerous times at both cerebral and behavioral levels (Challakere Ramaswamy & Schofield, 2022). Yet, to our knowledge, never has the link between olfactory, memetic, executive, and emotional capacities been studied via autobiographical memory, central in the creation of our identity, goals, and motivations (Conway & Jobson, 2012). I aim to study the impact of olfactory sense functionality on autobiographical, executive, and emotional memory skills. The main objective is to meet the expectations of anosmic and presbyopic patients by precisely characterizing the repercussions of anosmia and aging on overall cognitive functioning (memory, executive functioning) and emotion. With the help of Dr Jane Plailly (CRNL, Université de Lyon) and Pr Auriane Gros (CoBTeK laboratory, Université Côte D'Azur) we developed a research project about this topic. Stay tuned!