

CONTACT

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SKILLS

- Experimental Design:** Planning and implementing psychological studies in controlled settings, with a focus on visual cognition and perceptual processes.
- Behavioral Data Collection & Analysis:** Running experiments and analyzing results using tools such as Python or R.
- Experiment Programming:** Building time-sensitive cognitive tasks with jsPsych and PsychoPy.
- Non-Invasive Brain Stimulation:** Hands-on experience with transcranial random noise stimulation (tRNS) integrated into experimental protocols.
- Scientific Communication:** Writing research reports, preparing presentations, and contributing to academic documentation.
- Ethical Conduct:** Applying research ethics in participant recruitment, informed consent, and data management.
- Team Collaboration:** Working effectively in lab teams and multidisciplinary research environments.
- Problem Solving:** Adapting experimental protocols and troubleshooting technical or methodological issues independently.

LANGUAGES

- Italian (mother tongue)
- English C1
- Spanish B2

DAVIDE CANTAVENERA

COGNITIVE PSYCHOLOGY JUNIOR RESEARCHER

I specialize in cognitive psychology and research-based insight generation, with experience in experimental design, assessment, and data analysis. My background is complemented by an interest in computational tools such as generative AI and large language models.

EXPERIENCE

MARCH 2024 - PRESENT **Internship at Department of General Psychology (University of Padua)**

This internship focuses on scientific activities in psychological research with a focus on visual perception. My tasks include drafting research projects, recruiting participants, conducting behavioral and neuromodulation experiments (e.g., with tES), developing experimental scripts (jsPsych, PsychoPy), and managing data collection, analysis, and academic reporting.

SEPTEMBER 2024 - NOVEMBER 2024 **Internship at R-TREE TECHNOLOGIES S.R.L.**

During my internship at R-Tree, I was trained on selecting and evaluating prompts to assess content generated by Large Language Models (LLMs). I conducted in-depth analysis of coherence to context and overall accuracy of AI-generated responses, comparing model performance and preparing detailed reports on the outcomes.

EDUCATION

2024 - PRESENT

Master's Degree in Applied Cognitive Psychology

Offered by the University of Padua. This program focuses on cognitive processes such as attention, memory, language, reasoning, and decision-making, with applications in learning, cognitive enhancement, and human–technology interaction. It includes training in psychological assessment, experimental methods, and applied cognitive models.

2023 - 2024

Postgraduate Degree in Data Science & Data Management

This degree provided comprehensive training in language models, statistical foundations for data science, data management, machine learning, AI, big data analytics, and data visualization, equipping me with essential skills for educational data analysis, AI-driven insights, and the effective interpretation of complex datasets.

2024

Specialization Course in Tutoring for Learning

The course provided theoretical and methodological tools within cognitive psychology, emphasizing key models and their applications to learning processes. I developed skills to apply these models in enhancing memory, attention, and problem-solving, effectively preparing me to address diverse educational needs and optimize learning outcomes.

2020 - 2023

Bachelor's Degree in Cognitive and Psychobiological Psychological Sciences

Completed at the University of Padua. I gained in-depth knowledge of sensory, perceptual, and cognitive processes—including memory, learning, language, intelligence, and psychometrics—as well as the neural foundations of thought and behavior.