

Basile Garcia

POSTDOCTORAL FELLOW

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Academia

Postdoctoral fellow

UNIVERSITY OF GENEVA (UNIGE, BRAIN AND LEARNING LAB) - WITH **DAPHNE BAVELIER**

Investigating the dynamic integration of perceptual and value-based decision-making (DM) beyond standard laboratory paradigms. Developed a gamified behavioral task and a computational modeling framework to quantify the differential weighting of sensory evidence and subjective value signals. Utilizing Magnetoencephalography (MEG) to characterize the neural chronometry and spatio-temporal dynamics underlying this perceptual-value trade-off will be the next step.

Geneva, Switzerland

since 2023

Postdoctoral fellow

ÉCOLE NORMALE SUPÉRIEURE (LNC²) - WITH **STEFANO PALMINTERI**

Investigated human moral alignment with Large Language Models (LLMs) across high-stakes decision-making contexts via multi-cohort behavioral experiments ($N = 230$). Demonstrated comparable human agreement with LLM- and human-generated moral justifications despite low source-detection accuracy, while uncovering a significant anti-AI framing bias. Leveraged computational linguistic analyses to identify semantic and syntactic predictors of judgment agreement.

Paris, France

2022-2023

Ph.D in Cognitive Science

ÉCOLE NORMALE SUPÉRIEURE (LNC² - IJN) - WITH **STEFANO PALMINTERI** AND **SACHA BOURGEOIS-GIRONDE**

Combined behavioral experiments and computational reinforcement learning (RL) models to examine how humans represent and integrate heterogeneous reward signals. Investigated the commensurability of subjective values derived from experiential trial-and-error versus explicit symbolic descriptions.

Paris, France

2018-2022

M.Sc in Cognitive science

UNIVERSITÉ DE BORDEAUX

Bordeaux, France

2016 - 2018

B.Sc in Psychology

UNIVERSITÉ DE BORDEAUX

Bordeaux, France

2013 - 2016

Teaching

University of Geneva (UNIGE)

M.Sc

- Course Assistant: Brain & Plasticity (Moodle and course monitoring, logistics & exam coordination)

Geneva, Switzerland

2025 - 2026

University of Geneva (UNIGE)

B.Sc - THIRD YEAR (B3)

- Guest Lecturer: Cognitive Neuroscience – Hemispheric Lateralization (2h lecture)
- Course Assistant: Cognitive Neuroscience (Moodle and course monitoring, logistics & exam coordination)

Geneva, Switzerland

2025 - 2026

Université Paris Cité

B.Sc - FIRST YEAR

- Instructor (TD): Introduction to Experimental Psychology (25h)

Paris, France

September 2022 - December 2022

École Normale Supérieure

COGMASTER

- Guest Instructor (TD): Introduction to Reinforcement Learning (4h)

Paris, France

October 2022

Paris School of Economics

ECONOMICS AND PSYCHOLOGY M.Sc

- Guest Instructor (TD): Cognition and Economic Behavior – The Description-Experience Gap (2h)

Paris, France

January 2023

Mentoring

Master students

PARIS SCHOOL OF ECONOMICS - ÉCOLE NORMALE SUPÉRIEURE

Supervised the conception of experimental design, data collection, analyses and thesis writing.

- Fernanda Senko, *Forced disclosure of private information hinders cooperation*
- Theresa Pachmann, *Voluntary disclosure of private information and sorting to promote a sustainable health system*

Paris, France

September 2021 - July 2022

Communications

CONFERENCE TALK

2026 Emotions and Decision-Making Conference

Geneva,
Switzerland

CONFERENCE POSTERS

2024	Society for Neuroeconomics	Cascais, Portugal
2022	Federation of European Neuroscience Societies Forum	Paris, France
2021	Subjective Probability, Utility and Decision Making	Online
2021	Neurofrance	Online
2019	Fourth Quadrennial Meeting on OFC Function	Paris, France
2019	Symposium on Biology of Decision-Making	Oxford, UK

OUTREACH ACTIVITIES

2021	Declics meetings, that consist in introducing high school students to academia (Lycée Jacques Decour)	Paris, France
2019	Cog'Innov & Monocyte Edition collaboration, *Bavard S, *Garcia B. Les illusions économiques.	Paris, France
2018	Organization of the Mindlab association's hackaton.	Bordeaux, France

Skills

Programming	Python, Matlab, R, C#, Javascript, HTML/CSS, $\LaTeX$
Research Tools	oTree (online behavioral experiments), Prolific (human data collection platform), Qualtrics (survey design), SPSS (statistical analysis)
Frameworks	Django (web apps/backend), React (web apps/frontend), Unity3d (game engine), Flutter (android apps), Claude Code (AI assisted coding)
Languages	French (native speaker), English (C1), Spanish (B2)
Interests	Guitar/Music production, Climbing, Philosophy, Social Science, Game Dev/Web Dev

Papers

PUBLISHED

2026	A moral Turing test: How belief and source shape detection of and agreement with LLM judgments, <u>Garcia, B.</u> , Qian C., Palminteri, S. PloS one
2026	Context induces distortions in value representations: a test across multiple elicitation, Soukupova, M., <u>Garcia, B.</u> , Palminteri, S. Nature Communications
2025	Experiential value neglect is robust to changes in learning architecture and nature of outcomes, Pioger, C., <u>Garcia, B.</u> , Palminteri, S., Cognitive Computational Neuroscience (CCN)
2023	Experiential values are underweighted in decisions involving symbolic options, <u>Garcia, B.</u> , Lebreton, M., Bourgeois-Gironde, S., Palminteri, S. Nature Human Behaviour
2021	The description–experience gap: a challenge for the neuroeconomics of decision-making under uncertainty, <u>Garcia, B.</u> , Cerrotti, F., Palminteri, S., Philosophical Transactions of the Royal Society B
2019	Coordination over a unique medium of exchange under information scarcity, Nioche, A.*, <u>Garcia, B.*</u> , Lefebvre, G., Boraud, T., Rougier, N. P., Bourgeois-Gironde, S., Humanities and Social Sciences Communications - Nature
2019	Interaction effects between consumer information and firms' decision rules in a duopoly: how cognitive features can impact market dynamics, Nioche, A.*, <u>Garcia, B.*</u> , Boraud, T., Rougier, N. P., Bourgeois-Gironde, S., Humanities and Social Sciences Communications - Nature

IN REVIEW

2026	Biased yet flexible weighting of perceptual and value information during decision-making, <u>Garcia, B.</u> , Wyart, V., Bavelier, D., Nature Communications
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IN PREP.

2026	Shared values and norms drive collaboration in joint donation decisions, Wanek E., <u>Garcia B.</u> , Bourgeois-Gironde S.
2026	A pure preference for social transparency, <u>Garcia, B.</u> , Pachmann T., Bourgeois-Gironde S.