Basile Garcia
POSTDOCTORAL FELLOW

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Education

Postdoctoral fellow *Paris, France*
École Normale supérieure (LNC²) - with Stefano Palminteri *since 2022*
Over the past few years, there has been a rapid increase in the development of large language models. These models have been designed to learn general purpose representations of text, which can be used for a variety of tasks such as text classification, machine translation, and question answering. In the near future they could be used, among other things, to write news or scientific articles, for online chatbots, or home assistants. Despite this likely democratization, few studies investigated moral reasoning and moral decision-making of large language models, i.e. doing AI moral psychology. This research project aims at filling this gap.

Ph.D in Cognitive Science *Paris, France*
École Normale supérieure (LNC² - IJN) - with Stefano Palminteri and Sacha Bourgeois-Gironde *2018-2022*
My Ph.D thesis consists in the study of human reinforcement learning through behavioral experiments and computational modeling. More specifically, I am interested in the acquisition and comparison of different kind of subjective values, namely these acquired from experience (via trial-and-error) and description (via symbolic/semantic information). The two-step model of value based decision-making posits that orderly choice is possible through the mapping of different option values on a common scale. A subsequent question is thus whether these values of different nature are commensurable, and if so, what is the decision and valuation process allowing such a comparison.

M.Sc in Cognitive science *Bordeaux, France*
Université de Bordeaux *2016 - 2018*

B.Sc in Psychology *Bordeaux, France*
Université de Bordeaux *2013 - 2016*

Teaching

Université Paris Cité *Paris, France*
B.Sc - first year *September 2022 - December 2022*
Introduction to Experimental Psychology (25h)

Ecole Normale Supérieure *Paris, France*
Cogmaster *October 2022*
Introduction to Reinforcement learning (4h)

Paris School Of Economics *Paris, France*
Economics and Psychology M.Sc *January 2022*
Cognition and Economic Behavior: The Description-Experience Gap (2h)

Mentoring

Master students *Paris, France*
Paris School of Economics - Ecole Normale Supérieure *September 2021 - July 2022*
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*

Communications

Conference posters

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
Frameworks	Django (web apps), oTree (online experiments), Unity3d (game engine), Flutter (android apps)
Languages	French (native speaker), English (C1), Spanish (B2)
Interests	Guitar/Music production, Climbing, Philosophy, Social Science, Game Dev/Web Dev

Papers

PUBLISHED

2023   **Experiential values are underweighted in decisions involving symbolic options,** Garcia, B., 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,** Garcia, B., Cerrotti, F., Palminteri, S., Philosophical Transactions of the Royal Society B

2019   **Coordination over a unique medium of exchange under information scarcity,** Nioche, A.*, Garcia, B.*, 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.*, Garcia, B.*, Boraud, T., Rougier, N. P., Bourgeois-Gironde, S., Humanities and Social Sciences Communications - Nature

IN PREP.

2023   **Learning to disagree with LLMs ethical intuitions** Garcia, B.,Palminteri, S.

2023   **Crossing the description-experience gap** Garcia, B., Lebreton, M., Palminteri, S.

2023   **A pure preference for social transparency** Garcia, B.,Pachmann T., Bourgeois-Gironde, S.