

## Education

### Postdoctoral fellow

Paris, France

ÉCOLE NORMALE SUPÉRIEURE (LNC<sup>2</sup>) - 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 (LNC<sup>2</sup> - 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

## Publications

- 2022 **The impassable gap between experiential and symbolic values**, Garcia, B., Lebreton, M., Bourgeois-Gironde, S., Palminteri, S. [Nature Human Behaviour \(accepted\)](#)
- 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](#)

## Communications

### CONFERENCE POSTERS

- 2022 FENS 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

### SCIENCE POPULARIZATION

- 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, L<sup>A</sup>T<sub>E</sub>X
- Frameworks** Django (web apps), oTree (online experiments), Unity3d (game engine), Flutter (android apps)
- Languages** French (native speaker), English (C1), Spanish (B2)
- Interests** Guitar, Climbing, Philosophy (epistemology/politics/ethics), Social Science, Game Dev/Web Dev