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Education

Ph.D in Computational neuroscience

Paris, France

ÉCOLE NORMALE SUPÉRIEURE (LNC² - IJN)

Since 2018

- Under the supervision of $\bf Stefano\ Palminteri\ and\ Sacha\ Bourgeois-Gironde$

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 semantic information). Common currency theory posits that orderly choice is only 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

• 3 months internship under the supervision of **Sacha Bourgeois-Gironde**Study of money emergence using multi-agent simulations and behavioral experiments. We show that learning using a simple reinforcement learning mechanism is a sufficient condition for a commodity money to emerge.

• 6 months internship under the supervision of **Nicolas Rougier**. Study of strategies deployed by firms in theoretical duopoly situations through online behavioral experiments. We show that subjects rely on heuristics rather than complex learning mechanisms and decision rules.

B.Sc in Psychology Bordeaux, France

Université de Bordeaux 2013 - 2016

Publications

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

Coordination over a unique medium of exchange under information scarcity, Nioche, A.*, Garcia, B.*,

2019 Lefebvre, G., Boraud, T., Rougier, N. P., Bourgeois-Gironde, S., Humanities and Social Sciences Communications - Nature

Interaction effects between consumer information and firms' decision rules in a duopoly: how

2019 **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

2021	Subjective Probability, Utility and Decision Making	Online
2021	Neurofrance	Online
2019	Fourth Quadrennial Meeting on OFC Function	Paris, France
2019	Doctoral days, Ecole Cerveau Cognition et Comportements	Paris, France

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, LATEX

Frameworks Django (back-end python web framework), Unity3d (game engine)

Languages French (native speaker), English (C1), Spanish (B2)