

Valentin Guigon

CURRENT POSITION

Postdoctoral researcher
Social Learning and Decisions Lab,
UMD
March 2024 – Ongoing

RESEARCH AND PERSONAL INTERESTS

Beliefs
Emotions
Information
Social learning
Decision-making
Modelling complex behaviors

Social sciences
Public policies
Epistemology
Bouldering
Poetry

CONTACT

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EDUCATION

Doctorate degree – Cognitive neurosciences
2018-2022 | Neurosciences and Cognition Doctorate School, Lyon 1,
France

Master degree - Cognitive Sciences
2016-2018 | Psychology Faculty, Lyon 2, France

Licence degree – Physiology & Neurosciences (specialization: “Adaptation & Cognition”)
2015-2016 | Sciences Faculty, Marseille Saint Charles, France

Licence degree – Psychology
2012-2015 | Human Sciences Faculty, Aix en Provence, France

RESEARCH EXPERIENCE

Post-doctorate | Social Learning and Decisions Lab
University of Maryland, Maryland, USA
March 2024 – Ongoing | Social decision making
Studies: Neurocomputational mechanisms underlying neurotypical and neuroatypical learning in social contexts.
PI: Caroline Charpentier

Post-doctorate | Neuroeconomics laboratory (ISCMJ) and Behavioral economics laboratory (GATE)
CNRS UMR 5229, France & CNRS UMR 2824, France
March 2023 – October 2023 | Social decision making
Studies: Neurocognitive mechanisms underlying transmission of uncertain information in humans & Beliefs updating in social networks
Tools: Matlab – VBA toolbox, SPM | R – JAGS, BRMS
PI: Marie Claire Villeval & Jean-Claude Dreher

PhD | Neuroeconomics laboratory (ISCMJ) and Behavioral economics laboratory (GATE)
CNRS UMR 5229, France & CNRS UMR 2824, France
October 2018 – December 2022 | Social decision making
Studies: Neurocognitive mechanisms underlying transmission of uncertain information in humans.
Tools: Matlab – VBA toolbox, SPM | R – JAGS, BRMS
Missions: Management of PhD behavioral and imaging studies.
Directors: Marie Claire Villeval & Jean-Claude Dreher

Research Internship | Neuroeconomics laboratory (ISCMJ), CNRS UMR 5229, France
February – July 2018 | Decision making & Rewarding
Study: gPPI analysis of testosterone-induced effects on orbitofrontal-amygdala relationships during anticipation of primary and secondary rewards.
Tools: Matlab – SPM, CONN
Missions: Brain functional connectivity analysis.
Supervisor: Jean-Claude Dreher

SKILLS

PROJECT MANAGEMENT



DATA ANALYSIS



COMPUTATIONAL MODELLING



EXPERIMENTAL DESIGN



TEACHING & MENTORING



[Research Internship | Neuroeconomics laboratory \(ISCMJ\),](#)
CNRS UMR 5229, France

June - August 2017 | Decision making & Rewarding

Studies: Functional connectivity analysis in rewarded tasks and implementation of moral norms in tDCS disrupted decision-making behaviors.

Tools: Matlab – SPM, CONN

Missions: fMRI analysis & research and ethics protocols.

Supervisor: Jean-Claude Dreher

[Research Internship | Neuroeconomics laboratory \(ISCMJ\),](#)
CNRS UMR 5229, France

December 2016 - May 2017 | Impulsivity, Spatial discounting & VR

Study: Spatial proximity effects and impulsivity to action in a VR go/no-go task.

Missions: Experimental design, experimentation, statistics analyses, psychological processes modeling.

Supervisors: Jean-Claude Dreher & David O'Connor

[Research Internship | Integrative and Adaptive](#)
[Neurosciences Laboratory,](#)

CNRS UMR 7260, France

March - April 2016 | Vestibular Cortex ; Complex Systems

Study 1: Vestibular cortex, corporal self-consciousness.

Supervisor: Christophe Lopez

Study 2: Modelling patient-therapist-3rd party interactions in therapies and predicting subsequent emotional states (Lotka-Volterra models).

Supervisor: Laurent Pezard

[Research Internship | Cognitive Psychology Laboratory](#)

CNRS UMR 7290, France

June - July 2015 | Green Nudges

Mission: Review of nudges theories and practices applied to ecological transition.

Supervisor: Olivier Oullier

[Professional Internship | La Poste Communication's direction \(13\),](#)
[Marseille, France](#)

April 2015 | Nudges, Engaging Communication & Elaboration
Likelihood Model

Mission: Designing behavioral methods aiming at reducing employees' risky behaviors and promoting eco-responsibility, for communication managers.

Supervisors: Yousri Marzouki & Olivier Oullier

[Research Technician | Speech and Language Laboratory,](#)
CNRS UMR 7309, France

May - June 2014 | Theory of Mind

Study: Experimentation and analysis of intentions attributions in healthy and schizophrenic patients during sentences judgement tasks.

Missions: Collecting data and behavior analysis.

Supervisor: Maud Champagne-Lavau

FELLOWSHIPS

IDEX Institutional Design and Economic Preferences: Theory and Experiments (INDEPTH) PhD fellowship (2018-2021)

LabEX CORTEX fellowship (2021-2022)

LabEX CORTEX fellowship (2022-2023)

CONTRIBUTIONS

Cortex-magazine, member of the editorial board (January 2023 – January 2024)

EXTERNAL FORMATIONS

2025 -

HuggingFace AI Agents, 28h | Ongoing

Financial markets, Robert Schiller, Yale, Coursera, 29h | 2025

PUBLICATIONS

Guigon, V., Villeval, M. C. & Dreher, J. C. (2024). Metacognition biases information seeking in assessing ambiguous news. *Communications Psychology* 2 (1), 122.

Benistant, J., **Guigon, V.**, Nicolas, A., Derrington, E., & Dreher, J. C. (2025). Dynamic valuation bias explains social influence on cheating behavior. *bioRxiv*, 2024-05.

Guigon, V., Philippe, R., Benistant, J., Villeval, M.C., Dreher, J.-C. (2025). Neurocomputational processes of inferring others' preferences for information and fake news. *In preparation*

Guigon, V., Dunne, S., Pazderska, A., Frodl, T., Nolan, J. J., Clairis, N., O'Doherty, J.P., Dreher, J.-C. (2025). Testosterone Causes Decoupling of Orbitofrontal Cortex-Amygdala Relationship While Anticipating Primary and Secondary Rewards. *In preparation*.

O'Connor, D. A., Janet, R., **Guigon, V.**, Belle, A., Vincent, B. T., Bromberg, U., ... & Dreher, J. C. (2021). Rewards that are near increase impulsive action. *Isience*, 24(4), 102292.

Hu, Y., Philippe, R., **Guigon, V.**, Zhao, S., Derrington, E., Corgnat, B., ... & Dreher, J. C. (2022). Perturbation of Right Dorsolateral Prefrontal Cortex Makes Power Holders Less Resistant to Tempting Bribes. *Psychological Science*, 33(3), 412-423.

SCIENCE DISSEMINATION

V. Guigon (2025) La sphère publique et la chambre d'écho. Cortecs.org. <https://cortecs.org/informations-medias/la-sphere-publique-et-la-chambre-decho/>

S. Tremblay & CheeseNaan Productions (2024). Au-delà des écrans : comprendre la désinformation en ligne. <https://open.spotify.com/episode/60KNvDzRGybcj7CtiYglTi?si=93b89657cbf64983>

V. Guigon (2023). Notre société est-elle de plus en plus polarisée ? Cortex-mag.net. <https://www.cortex-mag.net/notre-societe-est-elle-de-plus-en-plus-polarisee/>

A. Sorce (2021). L'invité de la semaine – Valentin Guigon, fake news et théories du complot. Pharefm.com. <https://pharefm.com/2021/09/10/invite-de-la-semaine-valentin-guigon-fake-news-complot/>

O. Mollaret (2021). À Lyon : les victimes de fake news « fonctionnent comme tout le monde ». Rue89lyon.fr. <https://www.rue89lyon.fr/2021/08/16/lyon-victimes-fake-news/>

Yanis (2021). Comment ne pas se faire avoir par les fake news ? Alveole.media/cognitif. <https://smartlink.ausha.co/cognitif/episode-bonus-comment-ne-pas-se-faire-avoir-par-les-fake-news>

A. Gabert (2020). Pourquoi les théories du complot plaisent à notre cerveau. Cortex-mag.net. <https://www.cortex-mag.net/pourquoi-les-theories-du-complot-plaisent-a-notre-cerveau/>

EXTERNAL
FORMATIONS
2018-2024

HuggingFace Deep RL, 28h |
2024 | Certified

Reproducible Research, 24h |
2024 | Certified

Machine Learning with scikit-
learn, INRIA, 36h | 2024 |
Certified

Structural Equation Modeling,
CenterStat, 18h | 2024 |
Certified

Game Theory, Stanford
University, Coursera, 17h |
2024

HuggingFace NLP course,
huggingface.co, 49h | 2023

CS50, Harvard University,
EdX, 30h | 2023

Machine learning with Python,
IBM, Coursera, 15h | 2023

Bayesian statistics in
Evolutionary Biology, LBBE,
UCBL1, 27h | 2022 | Certified

Statistical Bayesian modelling,
Ladislav Nalborczyk,
MaiMoSiNe, 20h | 2021 |
Certified

Model Thinking, Scott E. Page,
Coursera, 27h | 2019-2020

Noninvasive Brain Stimulation
Workshop, ISCMJ, Lyon, 14h
| 2019 | Certified

Integrity and Ethics in research
careers, UDL, FUN-MOOC,
30h | 2019-2021 | Certified

Consulting career for PhDs,
UDL, Lyon, 18h | 2019 |
Certified

Leaders of learning, Harvard
University, FUN-MOOC, 15h
| 2019 | Certified

Introduction to
Neuroeconomics, Coursera,
31h | 2019

Principles of fMRI I & II,
Martin Lindquist, Coursera,
17h | 2018

TEACHING
EXPERIENCE

Mentoring | UMD PhD-Postdoc Mentoring program, UMD at College
Park, Maryland, U.S.A.

September 2024 – April 2025 | 1 year | 1 student

Mentoring | UCBL1 Neurosciences Master 1 students, Université
Claude Bernard Lyon 1, Lyon, France

January – June 2023, 2024 | 2 semesters | 3 students each

SPM fMRI preprocessing and contrasting | UCBL1 Neurosciences
PhD students, Université Claude Bernard Lyon 1, Lyon, France

June 2023 | 7h course | 20 PhD students

Teaching assistant | Université Lumière Lyon 2, Bron, France

September – December 2020 | 1 semester | 40 students | Cognitive
Psychology, Licence 2

Courses: cognitive psychology (Methodology, Emotions, Working
Memory, Executive Functions, Language).

Introduction to: epistemology and the problems of induction, beliefs,
emotions as signaling, ontogenetics and phylogenetics of brain
development, multi-level approaches, intercultural processes of
decision-making.

Supervisor: Gaën Plancher

Teaching assistant | Université Lumière Lyon 2, Bron, France

September – December 2019 | 1 semester | 40 students | Cognitive
Psychology, Licence 2

Courses: cognitive psychology (Methodology, Emotions, Working
Memory, Executive Functions, Language).

Introduction to: epistemology and the problems of induction, beliefs,
behavior modelling, ontogenetics of brain development, intercultural
decision-making.

Supervisor: Gaën Plancher

Teaching assistant | Université Lumière Lyon 2, Bron, France

September – December 2018 | 1 semester | 80 students | Cognitive
Psychology, Licence 2

Courses: cognitive psychology (Methodology, Emotions, Working
Memory, Executive Functions, Language).

Supervisor: Gaën Plancher

Teaching assistant | Université Lumière Lyon 2, Bron, France

September – December 2017 | 1 semester | 80 students | Introduction
to cognitive psychology, Licence 1

Courses: research methodology and cognitive paradigms.

Supervisor: François Osiurak

April 23 2025

