

June 10th 1988

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AREA OF EXPERTISE

Scientific skills

- Scientific watch
- Problem solving
- Experimental design & analysis
- Behavior & cognition
- Clinical ethic accreditation
- Neuro-imaging
- Large dataset analysis (Omics, EEG, etc.)

Management & Communication skills

- Project management
- Adaptability & Initiative
- Team leader & Mentoring
- Teamwork & collaboration
- Public communication
- Technical communication
- Technical accreditation writing
- Grant writing

Informatics skills

- Scientific coding : R, Python, Matlab
- Machine learning
- Statistical modelling
- Data collection & analyze
- Data visualization
- Database management
- Statistics (Bayesian frequentist)

PROFESSIONAL EXPERIENCE

Senior Biostatistician • EBMT

2024 – present

European Bone Marrow Transplant

Paris, France

- Project Management
- Complete statistical analysis (e.g. Clinical test)
- Contributed to several paper

Research scientist • Columbia University

2020-2023

Zuckerman Institute • Cognitive neuroscience

New-York, USA

- Characterized cognitive mechanisms and neural basis of hierarchy
- Led a project with cutting edge technology and international collaboration
- Mentored undergraduate and graduate students
- International scientific oral communication
- Contributed to national grant writing (granted) and scientific papers revisions
- Worked with Bayesian model of model-free/ model-based reinforcement learning

Graduate researcher & research scientist • Institute Pasteur

2014 – 2019

Neuroscience Department

Paris, France

- Study behaviour, structure and genetic for new therapeutic target
- Led a project with international collaboration
- Mentored undergraduate and graduate students
- International scientific oral communication
- Designed new behavioral tasks to study social interactions
- Identified new therapeutic targets for autism spectrum disorder

EDUCATIONS & CERTIFICATIONS

Ph.D. Neurobiology,

2014-2014

- Université Paris-Cité • Graduated magna cum laude.

Paris, France

Certification in bio-statistics applied to live science,

2016

- Institut Pasteur, Paris • Frequentist statistics approach using R

Paris, France

M.S. / Master, Neuroscience and cell signaling,

2009-2012

- University of Paris-Saclay • Specialisation in behavior and cognition

Paris, France

B.S. / Licence, Biological science,

2012-2014

- University of Paris-Saclay • Specialisation in neuroscience

Paris, France

SELECTED PUBLICATIONS & COMMUNICATIONS

Written communications

Ferhat et al, 2023 Front Mol Neurosci, doi:

10.3389/fnmol.2023.1139118

Ferhat et al, , 2022 Journal of Cog. Neurosci, doi:

10.1162/jocn_a_01823

Ey, Ferhat et al, 2017 Front Mol Neurosci,

doi:10.3389/fnmol.2018.00365

Oral communications 2021 • Can

monkeys make rule-based decisions despite

countervailing reward

associations? • Neuromatch

2020 • Reward-biased transitive

inference task • Neuromatch

INTERESTS & SKILLS

Language: French (Native); English (Professional)

Software: R studio (Rstan, Rmarkdown), Jupyter, Spyder, MATLAB (EEGLab, Fieldtrip), Image J, Microsoft Office, Illustrator, Cytoscape

Interests: Arduino and Raspberry pi-based DIY, Bread making and Culinary fermentations, Hiking, Bouldering,