

Allain-Thibeault FERHAT, Ph.D

Senior Biostatistician


June 10th 1988

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AREA OF EXPERTISE

- Scientific skills**
 - Scientific watch
 - Problem solving
- Management & Communication skills**
 - Project management
 - Adaptability & Initiative
- Informatics skills**
 - Scientific coding : R, Python, Matlab
- Experimental design
 - Behaviour & cognition
 - Team leader & Mentoring
 - Teamwork & collaboration
 - Machine learning
 - Statistical modelling
 - Clinical ethic accreditation
 - Neuro-imaging
 - Public communication
 - Technical communication
 - Large dataset analysis (Omics, EEG, etc.)
 - Technical accreditation writing
 - Grant writing
- Data collection & analyse
 - Data visualization
 - Database management
 - Statistics (Bayesian frequentist)

PROFESSIONAL EXPERIENCE

- Senior Biostatistician • EBMT**
European Bone Marrow Transplant
• Project Management
• Complete statistical analysis (e.g. Clinical test)
• Contributed to several paper
2024 – present
Paris, France
- Research scientist • Columbia University**
Zuckerman Institute • Cognitive neuroscience
• 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
2020-2023
New-York, USA
- Graduate researcher & research scientist • Institute Pasteur**
Neuroscience Department
• 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
2014 – 2019
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-baseddecisions 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,

EDUCATIONS

- Ph.D. Neurobiology,**
• Université Paris-Cité • Graduated magna cum laude.
2014-2018
Paris, France
- M.S. / Master, Neuroscience and cell signalling,**
• University of Paris-Saclay • Behavior and cognition
2009-2012
Paris, France
- B.S. / Licence, Biological science,**
• University of Paris-Saclay • Neuroscience
2012-2014
Paris, France

CERTIFICATIONS

- Project Management certification**
• Université Paris-Cité • Clinical trial and retrospective project
2024
Paris, France
- Certification in bio-statistics applied to live science,**
• Institut Pasteur, Paris • Frequentist statistics approach using R
2016
Paris, France

