

Allain-Thibeault FERHAT, Ph.D

Research Scientist

June 10th 1988 (35)

at@ferhatberland.com

+33 6-60-62-31-89

<https://ferhatberland.com/>

PROFILE

Experienced project manager and data scientist with a solid background in scientific research from prestigious institutions. Expertly skilled in leading and coordinating projects, utilizing a unique blend of scientific knowledge and management acumen to drive successful outcomes in diverse environments. Seeking a challenging role to apply my expertise and contribute to the success of projects.

AREA OF EXPERTISE

Management & Communication skills

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

Informatics skills

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

Scientific skills

- Scientific watch
- Experimental design & analysis
- Clinical ethic accreditation
- Large dataset analysis (Omics, Electroencephalograms, etc.)
- Problem solving
- Pharmacologie
- Microscopy

PROFESSIONAL EXPERIENCE

Research scientist • Columbia University

Zuckerman Institute • Cognitive neuroscience

2020-2023

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

Neuroscience Department

2014 – 2019

Paris, France

- Characterized animal models for autism spectrum disorder at behavioral, structural and genetic level 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 in rodents
- Identified new therapeutic targets for autism spectrum disorder

Research assistant • University of Leeds

The Astbury Centre • Molecular biology

2012

Leeds, UK

- Reviewed literature about causes of Alzheimer Disease

EDUCATIONS & CERTIFICATIONS

Certification : Data Science & Neural Networks and Deep Learning

2023

- Coursera • IBM & DeepLearning.AI

Online

Ph.D. Neurobiology,

- *Université Paris-Cité* • Graduated magna cum laude.

2014-2014

Paris, France

Certification in science popularization & journalism,

- *University of Sorbonne Paris Cité*

2015

Paris, France

Certification in bio-statistics applied to live science,

- *Institut Pasteur, Paris* • Frequentist statistics approach using R

2016

Paris, France

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

- *University of Paris-Saclay* • minor in behavior and cognition

2009-2012

Paris, France

B.S. / Licence, Biological science,

- *University of Paris-Saclay* • minor in neuroscience, graduated in the top 5% of the class.

2012-2014

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, Tabletop roleplaying game (group management), Hiking, Bouldering, Cooking, Bread making and Culinary fermentations