



# JULIE BONNAIRE

Cognitive Scientist at CEA/Meta

@ julie.bonnaire@outlook.fr

Paris, France

jubnr

Neuroscience

Neuroimaging

Data analysis

Multimodality

Communication

## EDUCATION

Master's degree Cognitive Neuroscience

Sorbonne Université, track: Systems biology

Sep. 2020 – Jul. 2022

Paris, France

Bachelor's degree Biology

Sorbonne Université, track: Biology

Sep. 2017 – Jul. 2020

Paris, France

## EXPERIENCE

Research Engineer  

Neuroimaging

Data analysis

Communication

– Python

Bash

R

NeuroSpin, Cognitive Neuroimaging Unit & Fundamental AI Research (FAIR)

Apr. 2024 – Ongoing

Gif-Sur-Yvette, France

Acquisition and analysis of neuroimaging data (fMRI, EEG, and MEG) to unravel the computational foundations of language (decoding language from neural activity).

Research Engineer 

Neuroimaging

Data Analysis

Communication

– Python

R

Cognitive and Machine Learning & ArticuLab teams

Sep. 2022 – Aug. 2023

Paris, France

Employing a multimodal approach that combines behavioral analysis with neural research to comprehensively investigate social bonding via inter-brain synchrony during remote middle childhood interactions.

M2 Research Intern 

Neuroimaging

Neuroscience

– Python

R

Cognitive and Machine Learning & ArticuLab teams

Jan. 2022 – Aug. 2022

Paris, France

Leveraging neuroimaging to gain deeper insights into the effects of collaboration during remote social interactions between children.

M1 Research Intern 

Computational Neuroscience

Cognition

Decision-making

– Matlab

Institut des Systèmes Intelligents et de Robotique

May 2021 – Jul. 2021

Paris, France

Numerical simulations to study a simplified decision-making model within recurrent networks from the intraparietal cortex.

## LANGUAGES

French (C2) ● ● ● ● ●

English (B2) ● ● ● ● ●

Italian (B1) ● ● ● ● ●

## PROGRAMMING

Python

R

Matlab

Bash

## NEUROIMAGING

fNIRS

EEG

MEG

fMRI

## REFERENCES

Prof. Justine Cassell

@ Inria

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ArticuLab, Inria, Paris.

Prof. Guillaume Dumas

@ PPSP

guillaume.dumas@umontreal.ca

Computational Psychiatry, University of Montreal.

## PUBLICATION

J. Bonnaire, et al. "Bringing Together Multimodal and Multilevel Approaches to Study the Emergence of Social Bonds between Children and Improve Social AI." *Frontiers in Neuroergonomics*, vol. 5, 2024, DOI:10.3389/fnrgo.2024.1290256.