

WORK EXPERIENCE

Meta Platforms, FAIR (Fundamental AI Research)

05/2024 - 11/2024

*Research Scientist Intern**London, United Kingdom*

Leveraging pre-training across different brain decoding tasks (image, speech and word) within the Brain & AI team supervised by Hubert Jacob Banville and Jean Remi King

New York University, NYU Video Lab

03/2023 - Present

*Visiting Researcher**New York City, United States*

Working on critical regions prediction for language processing from ECoG data under the supervision of Yao Wang and Adeen Flinker

ENS Paris-Saclay, Centre Borelli, HIA Bégin

11/2022 - 01/2023

*Research Intern**Gif-sur-Yvette, France*

Time series analysis from EEGs of patients in intensive care unit under the supervision of Laurent Oudre and Clément Dubost

ENS Paris-Saclay, Centre Borelli

04/2022 - 07/2022

*Research Intern**Gif-sur-Yvette, France*

Image processing and deep convolutional networks under the supervision of Enric Meinhardt-Llopis

EDUCATION

ENS Paris-Saclay

2023 - 2024

*M.Sc. in mathematics and artificial intelligence, MVA**Gif-sur-Yvette, France*

Coursework: convex optimization, probabilistic graphical models, computational optimal transport, time series, geometric data analysis, numerical imaging, bayesian machine learning, kernel methods, algorithms for speech, mathematics for neurosciences, deep learning for medical imaging, generative models for images

ENS Paris-Saclay

2022 - 2023

*Research Year in Artificial Intelligence**Gif-sur-Yvette, France*

Coursework: foundations of AI, AI for images and videos, AI for natural language processing, AI for time series, object recognition and computer vision (MVA) and image denoising (MVA)

Paris-Saclay University

2021 - 2022

*M.Sc. in mathematics and artificial intelligence**Orsay, France*

Coursework: probability, statistics, machine learning, deep learning, natural language processing, algorithms and data structures, graph theory, information theory, mathematics for AI, optimization and image processing

Gustave Eiffel University

2018 - 2021

*B.Sc. in mathematics and computer science**Champs-sur-Marne, France*

Top 5% for three consecutive years

PUBLICATIONS

Deep learning models based on neurophysiology to predict language cortex stimulation

2025

*A. Ratouchniak, J. Chen, X. Chen, A. Khalilian-Gourtani, Y. Wang, A. Flinker**In progress*

ADDITIONAL EDUCATION

Music diploma

2019

Music diploma in piano and music theory obtained with honors

SKILLS & INTERESTS

Languages French (native), English (fluent), Spanish (intermediate), Chinese (basic)

Programming Python (scikit-learn, PyTorch), Java, Git, SQL, MATLAB, C, PHP, JavaScript

Sport Running, Fitness, Judo