

WORK EXPERIENCE

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| 05/2024 Present | Meta Platforms, FAIR (Fundamental AI Research) Internship working on 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 | London, United Kingdom |
| 03/2023 Present | New York University, NYU Video Lab Working on critical regions prediction for language processing from ECoG data under the supervision of Yao Wang and Adeen Flinker | New York City, United States |
| 11/2022 3 months | ENS Paris-Saclay, Centre Borelli, HIA Bégin Internship on time series analysis from EEGs of patients in intensive care unit under the supervision of Laurent Oudre and Clément Dubost | Gif-sur-Yvette, France |
| 04/2022 2 months | ENS Paris-Saclay, Centre Borelli Internship on image processing and deep convolutional networks under the supervision of Enric Meinhardt-Llopis | Gif-sur-Yvette, France |

EDUCATION

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| 2023 - 2024 | M.Sc. in mathematics and artificial intelligence, MVA Coursework: convex optimization, probabilistic graphical models and deep generative models, computational optimal transport, machine learning for time series, geometric data analysis, introduction to numerical imaging, bayesian machine learning, kernel methods, algorithms for speech and natural language processing, mathematics for neurosciences, deep learning for medical imaging, generative models for images | ENS Paris-Saclay, France |
| 2022 - 2023 | Research Year in Artificial Intelligence 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) | ENS Paris-Saclay, France |
| 2021 - 2022 | M.Sc. in mathematics and artificial intelligence Coursework: probability, statistics, machine learning, deep learning, natural language processing, algorithms and data structures, graph theory, information theory, mathematics for artificial intelligence, optimization and introduction to image processing | Université Paris-Saclay, France |
| 2018 - 2021 | B.Sc. in mathematics and computer science Top 5% for three consecutive years | Université Gustave Eiffel, France |

PUBLICATIONS

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| 2024 <i>In progress</i> | Deep learning models based on neurophysiology to predict language cortex stimulation, <i>A. Ratouchniak, J. Chen, X. Chen, A. Khalilian-Gourtani, Y. Wang, A. Flinker</i> |
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ADDITIONAL EDUCATION

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| 06/2019 | Music diploma Music diploma in piano and music theory obtained with honors | France |
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SKILLS & INTERESTS

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| Languages | French (native), English (fluent), Spanish (intermediate), Chinese (basic) |
| Programming | Python (scikit-learn, PyTorch), Java, Git, MATLAB, C, PHP, JavaScript |
| Sport | Running, Fitness, Judo |