JAROD LÉVY

PhD Student in AI × Neuroscience

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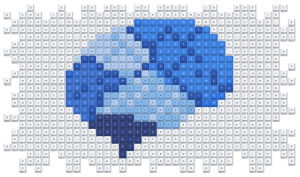
LinkedIn GitHub Scholar



EXPERIENCE

PhD Student
Meta AI (FAIR) & INRIA

Jan 2025 – Jan 2028 Paris

- Decoding communication through non-invasive brain signals.
- Supervision: Stéphane d'Ascoli, Thomas Moreau, Jean-Rémi King.

AI Research Intern
Meta AI (FAIR) – Brain & AI Team

May 2024 – Nov 2024 Paris

- Built brain-to-text models to better decode and understand the brain.
- Supervision: Stéphane d'Ascoli & Jean-Rémi King.

Research Intern
Dan Landau Lab (New York Genome Center & WCM)

Feb 2023 – Jul 2023 New York

- Built deep learning models to detect somatic mutations in mRNA sequences.

Project Manager
Institut du Sein

Sep 2022 – Dec 2022 Paris

- Designed data-extraction workflow to optimize publication pipelines.

Machine Learning Consultant
Avatar Medical & Institut Pasteur

Apr 2022 – Dec 2022 Paris

- Developed segmentation algorithms for 3D medical imaging.
- Built annotation platforms and self-supervised learning pipelines for neuroscience datasets.
- Supervisor: Jean-Baptiste Masson.

Research Intern
Institut Pasteur – Perception & Memory Unit

Jan 2021 – Jun 2021 Paris

- Experimental & computational work on amygdala neural circuits.
- Supervisors: Lena Bourhy & Gabriel Lepousez.

EDUCATION

M.Sc. — Mathematics, Vision & Learning (MVA)
École Normale Supérieure Paris-Saclay

2023 – 2024

M.Sc. — Cycle Ingénieur Civil
École des Mines de Paris

2021 – 2024

M.Sc. Biomedical Engineering (Exchange)
Imperial College London

2019 – 2020

B.Sc. Life Sciences Engineering
EPFL Lausanne

2017 – 2019

- First class honours (top 10%).

Classes Préparatoires PCSI
Lycée Henri IV, Paris

2016 – 2017

SKILLS

Programming: Python C# / C++ JavaScript CSS HTML

Tools: Unix Git Slurm PyTorch Docker

Others: Computational Neuroscience Experimental work Team management Event organization

French (native)

English (fluent)

Spanish (B2)

PUBLICATIONS

For a complete and up-to-date list, visit my Google Scholar profile .

LEAD PUBLICATIONS

J. Lévy, M. Zhang, S. Pinet, J. Rapin, H. Banville, S. d'Ascoli, J.-R. King (2025). *Brain-to-text decoding: A non-invasive approach via typing.* **Under review.**

- **Media coverage:** BBC Radio, MIT Technology Review, Forbes, France Info...

J. Lévy, H.-J. Banville, J.-R. King, S. Pinet, J. Rapin, S. d'Ascoli, T. Moreau (2025). *Deep Learning on M/EEG signals: adapt your model, not your preprocessing!* **GRETSI.**

COLLABORATIONS

M. Zhang, **J. Lévy**, S. d'Ascoli, J. Rapin, F. Alario, P. Bourdillon, S. Pinet, J.-R. King (2025). *From thought to action: How a hierarchy of neural dynamics supports language production.* **Under Review.**

C. Raynaud, D. Wu, **J. Lévy**, M. Marengo, J.-E. Bibault (2025). *Patients facing large language models in oncology: A narrative review.* **JCO Clinical Cancer Informatics.**

L. Bourhy, A. Mazeraud, L.H.A. Costa, **J. Lévy**, D. Rei, E. Hecquet, I. Gabanyi, F.A. Bozza, F. Chrétien, P.-M. Lledo, T. Sharshar, G. Lepousez (2022). *Silencing of amygdala circuits during sepsis prevents the development of anxiety-related behaviours.* **Brain.**

L. Bourhy, C. Moigneu, A. Dupin, E. Hecquet, **J. Lévy**, T. Sharshar, P.-M. Lledo, G. Lepousez (2023). *Dissecting the contribution of vagal subcircuits in sepsis-induced brain dysfunctions.* **Under Review.**

OTHER WORKS

J. Lévy, C. Godard, J.-B. Masson (2022). *Towards robust fetus segmentation from MRI imaging.*

J. Lévy, P. Meddeb (2023). *From trees to continuous embeddings and back: Hyperbolic hierarchical clustering.*

J. Lévy (2022). *Few-shot learning creates predictive models of drug response.*

J. Lévy, P. Meddeb (2023). *QRT Data Challenge: Can you guess the winner?*

INVITED TALKS

INVITED TALKS in 2025

- Adapt your model, not your preprocessing — GRETSI, Strasbourg
- Decoding communication using non-invasive brain recordings — Institut Pasteur, Paris
- Brain2Qwerty architecture — Meta FAIR MechInterp Group, London

INVITED TALKS in 2024

- Brain-to-text architectures — FAIR Conference Workshop, New York

INVITED TALKS in 2022

- Presentation of the DIVA platform — Cancer Symposium, Institut Pasteur, Paris

INVITED TALKS in 2019

- What are optical illusions? — National Health Fair, Geneva

COMMUNITY SERVICE

Reviewer — ICLR and NeurIPS
From 2024.

Teacher Assistant — Mathematics
100 students — exercise sessions and tutorials.

Vice-President — EPFL Life Sciences Association
Organized academic & cultural events for 200+ students.

Delegate to Faculty Board
Represented Life Sciences students (2017–2019).

OUTSIDE WORK

Winner — Question pour un Champion
France 3, March 2025.

President — Chambre Noire
Collective promoting emerging artists through immersive events (1000+ people).

Writing
Weekly column “PhD Diary” on LinkedIn and Substack (3K+ followers).

Volunteer Work
Louvre Museum — Patronage and Accessibility Department, assisting visitors with disabilities.

Sports
Tennis (2 h/week), Chess (ELO 1600).

Music

- Electronic music producer and performer (Paris, London, Lausanne).
- Piano (15 years).