Léo BURGUND

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Master 2 Math/AI student with research experience at INRIA and former medical student, seeking a 5-6 month AI/ML internship (01 April - 30 September 2026).

Education

Master 1 & 2: Mathematics & AI   2024 – 2026

Paris-Saclay University (Mathematical Institute of Orsay), CentraleSupélec Paris

- Statistics, Optimization, Probability
- Machine Learning and Deep Learning algorithms
- Practical applications in Python and R

Double-Licence in Applied Mathematics and Economics   2021 – 2024

Paris-Nanterre University

General Training Diploma in Medical Sciences   2016 – 2019

Faculty of Medicine, Sorbonne University

- Corresponding to the first 3 years of the french M.D. diploma
- Including one year at the University of Copenhagen through the Erasmus program

Experience

Research intern - Attention Growth for Transformers   Apr. 2025 – Aug. 2025

INRIA Saclay, LISN, TAU Team

- Derived closed-form, on-the-fly growth rules based on the functional gradient to expand the attention inner dim. k, find its optimal new weights, plus a head-selection growth criterion.
- Built a custom Growing Vision Transformer in PyTorch, experimented on CIFAR-10/100/Imagenette using a GPU cluster with Slurm and tracking with Weights&Biases.

Medical extern   2018 – 2021

Assistance Publique - Hôpitaux de Paris

- Assisted medical residents in patient care and provided surgical assistance in the operating room.

Projects

Study of Predictive Factors Associated with Charcot Disease and Feature Selection   2023

- Supervised models (Logistic Regression, SVM, Decision Trees, Random Forest) using Scikit-learn
- Feature selection (sequential selection, feature importance with Random Forest)
- Model evaluation using cross-validation and AUC

Skills

- Programming: Python (PyTorch, Timm, Scikit-learn, Numpy, Pandas, Matplotlib), R, SQL, C
- Tools: Git, Slurm, Weights&Biases, HuggingFace, Linux, Latex, Typst
- Deep Learning: MLP, CNN, RNN, Transformers, Growing neural networks
- Machine Learning: Linear and Logistic Regression, Ridge and Lasso Regularizations, Decision trees, Random Forest, SVM, PCA, K-Means, Hierarchical Clustering
- Languages: French (native), English (Fluent, TOEIC 955/990)
- Driver's License (Permis B)