

EXPERIENCE

- Department of Statistics, University of Washington** Feb 2025 - Jul 2025
Research Intern. Supervisor : Pr. Zaid Harchaoui Seattle, USA
- Department of Mathematics, Imperial College London** Nov 2024 - Jan 2025
Research Intern. Supervisor : Dr. Nicolas Boullé London, UK
 - Fine-Tuning Discrete Diffusion Models with Policy Gradient Methods. [Preprint link](#), submitted.
- Huawei AI Research** Mar 2024 - Sep 2024
Research Intern. Supervisor : Dr. Ievgen Redko Paris, France
 - Large Language Models as Markov chains. [Preprint link](#), submitted.
 - Zero-shot MBRL using LLMs. [Paper link](#), accepted at ICLR 2025.
 - LLMs learn SGD In-Context. [Workshop paper](#) accepted at ICML 2024, top 6 paper out of over 50 submissions.
- System Optimization Laboratory, University of Kyoto** Apr 2023 - Jul 2023
Research Intern. Supervisors : Dr. Ellen Hidemi Fukuda & Dr. Bruno Figueira Lourenço. Kyoto, Japan
 - Subject : Convergence analysis under consistent error bounds.
 - New contributions to convex optimization. [A journal paper is currently being reviewed.](#)
- Centre Borelli, ENS Paris-Saclay** Mar 2022 - Jul 2022
Research Intern. Supervisors : Dr Laurent Oudre & Thibaut Germain. Gif-sur-Yvette, France
 - Subject : Similarity measures between time series inspired by optimal transport.
 - Creation of tools for identification of spatio-temporal similarities, trained on real data from rehabilitation patients.

EDUCATION

- ENS Paris-Saclay, Gif-sur-Yvette** Sep 2023 - Aug 2024
Master's Degree, M2 MVA, Mathematics and Applications
 - Courses in Europe's leading MsC in ML, taught by top-level researchers.
 - Relevant coursework : Statistical learning, Optimal Transport, Convex optimization, Distributed and Large-Scale Computing Optimization, Kernel Methods, Deep Learning in Practice...
- Ecole Polytechnique & ENS Paris-Saclay, Palaiseau** Sep 2022 - Aug 2023
Master's Degree, M1 Hadamard, Pure & Applied Mathematics.
 - Mathematics courses of a very high standard, which enabled me to acquire solid skills.
 - Relevant coursework : Functional Analysis, Optimization and Numerical Optimization, Advanced Probabilities, Statistics, Learning and Stochastic Simulation...
- ENS Paris-Saclay, Gif-sur-Yvette** Sep 2021 - Aug 2025
Normalien élève Diploma.

TEACHING AND JURY ACTIVITIES

- HEC Paris** 2024
Jury member in Mathematics Jouy-en-Josas, France
 - Member of the jury for the mathematics entrance examination to France's most selective business school.
 - Written and oral examination of candidates.
- Lycée Louis-Le-Grand, Lycée Turgot** Sep 2022 - Present
Teaching Assistant & Oral Examiner in Mathematics Paris, France
 - Courses and oral examinations "Khôlles" given to students in French "Classes Prépas".

PROJECTS

- **Research Blog** : Maintaining logB, with my friend Ambroise Odonnat. ≈ 100 subscribers on our mailing list.
- **PET Metabolic Imaging** : Working in pairs with the nuclear medicine physicians. Fine-tuning the very recent SSM model *U-Mamba*, for PET automatic segmentation.
- **Convolutional Kernel Network** : From-scratch implementation, in Python and CUDA, of the CKN architecture introduced by Dr. Julien Mairal in *End-to-End Kernel Learning with Supervised CKN*, [J. Mairal](#). [Blogpost here](#).

AWARDS & GRANTS

- **Grant and title** : 4-year grant ($\sim 63k$ €), as a reward for my admission to the ENS and obtaining the grade of trainee civil servant.
- **Academic achievement** : Ranked in the top 200 out of more than 8,000 candidates for the ENS entrance exam (top 2.5%).

SKILLS & LANGUAGE

- **Code** : Proficient in Python, Latex, PyTorch, TikZ...
- **Languages** : French (native), English (Cambridge CAE C1 certificate), Spanish (intermediate), Japanese (basics).