MAËL CHAUMETTE

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○ GitHub ✦ GitLab ▣ LinkedIn

EDUCATION

National School for Statistic and Data Analysis - ENSAI 2021 - 2024
Master's degree in Data Science and Data engineering *Rennes, France*

· Relevant courses: Deep Learning, Machine Learning, Numerical optimization, Multivariate statistical analysis, Advanced inferential statistics, Probability, Measure theory

University of Rennes 2021 - 2022
Bachelor of Science in Mathematics with high honors (7 / 96) *Rennes, France*

· Dual curriculum in conjunction with ENSAI studies
· Relevant courses: Complex analysis, Differential equations, Numerical optimization

EXPERIENCE

ENS Lyon / Inria - OCKHAM team Nov. 2024 - Present
Ph.D supervised by R. Gribonval and E. Riccietti *Lyon, France*

· "Invariance, parsimony and quantification for frugal and controlled large-scale learning"
· Keywords: deep learning, quantization, optimization, sparsity
· Publications [1, 2]

ENS Lyon / Inria - OCKHAM team Apr. 2024 - Sep. 2024
Research internship (M2) *Lyon, France*

· Numerical optimization by studying the spectrum of the objective function's Hessian
· Tools & technologies used: Python, Numerical optimization, Random matrix and Measure theory

National School of Public Health - EHESP Jun. 2023 - Aug. 2023
Machine learning internship to predict hospital readmissions *Rennes, France*

· Utilisation of Spark to handle massive data
· Tools & technologies used: Python, Scala, Spark, Random Forest, Logistic regression

PUBLICATIONS

Preprints

[1] M. Chaumette, R. Gribonval, E. Riccietti. CROQuant: Complex Rank-One Quantization Algorithm. Submitted to *GRETSI*, 2025

[2] G. Lauga, M. Chaumette, E. Desainte-Maréville, E. Lassalle, A. Lebeurrier. A multilevel approach to accelerate the training of Transformers. Submitted to *GRETSI*, 2025

TEACHING

2024 - 2025 (32h) | ENS de Lyon: Teacher Assistant of Stephan Thomassé, *Algorithms 1 (L3)*

TECHNICAL SKILLS AND INTERESTS

IT Skills	Python (Pytorch), R, Java, Spark, Git
Other skills	Driven licence, Team First AID 2
Languages	French (Native speaker), English (845 TOEIC)
Hobbies	Swimming, Travelling, cinema