

# MAËL CHAUMETTE

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GitHub GitLab LinkedIn

## EDUCATION

National School for Statistic and Data Analysis - ENSAI <i>Master's degree in Data Science and Data engineering</i>	2021 - 2024 Rennes, France
· Relevant courses: Deep Learning, Machine Learning, Numerical optimization, Multivariate statistical analysis, Advanced inferential statistics, Probability, Measure theory	

  

University of Rennes <i>Bachelor of Science in Mathematics with high honors</i>	2021 - 2022 Rennes, France
· Dual curriculum in conjunction with ENSAI studies	
· Relevant courses: Complex analysis, Differential equations, Numerical optimization	

## EXPERIENCE

ENS Lyon / Inria - OCKHAM team <i>Ph.D supervised by R. Gribonval and E. Riccietti</i>	Nov. 2024 - Present Lyon, France
· “Invariance, parsimony and quantification for frugal and controlled large-scale learning”	
· Keywords: deep learning, quantization, optimization, sparsity	
· Publications [2, 3, 1]	
ENS Lyon / Inria - OCKHAM team <i>Research internship (M2) supervised by R. Gribonval and M. Massias</i>	Apr. 2024 - Sep. 2024 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 <i>Machine learning internship to predict hospital readmissions</i>	Jun. 2023 - Aug. 2023 Rennes, France
· Utilisation of Spark to handle massive data	
· Tools & technologies used: Python, Scala, Spark, Random Forest, Logistic regression	

## PUBLICATIONS

### Preprint

[1] M. Chaumette, R. Gribonval, E. Riccietti. CROQuant: Complex Rank-One Quantization Algorithm, with Application to Butterfly Factorizations. Submitted at *ACM Transactions on Mathematical Software*, 2026

### National Conference

[2] M. Chaumette, R. Gribonval, E. Riccietti. CROQuant: Complex Rank-One Quantization Algorithm. *GRETISI*, 2025

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

## TALKS

CROQuant: Complex Rank-One Quantization Algorithm. *RAIM*, Nov 2025

CROQuant: Complex Rank-One Quantization Algorithm. *GRETISI*, Sep 2025

## TEACHING

2025 - 2026 (32h)	ENS de Lyon: Teacher Assistant of Mathurin Massias, <i>Machine Learning</i> (L3)
2024 - 2025 (32h)	ENS de Lyon: Teacher Assistant of Stephan Thomassé, <i>Algorithms 1</i> (L3)

## TECHNICAL SKILLS AND INTERESTS

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