

El Mahdi Khribch

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ABOUT ME

I am a final year PhD student at ESSEC Business School specializing in computational statistics and statistical learning theory. My research focuses on unbiased MCMC methods and coupling techniques for Monte Carlo estimation, variational approximations, and PAC-Bayesian theory.

EDUCATION

2022 - present	Ph.D. in Statistics and Data Analytics <i>Supervised by Pr. Pierre Alquier and Pr. Pierre Jacob</i>	ESSEC Business School, Paris, France
2021	Master of Science: MVA	ENS Paris-Saclay, Paris, France
2020	Master of Science: Statistical Sciences	Oxford University, Oxford, UK
2019	Year Abroad	Harvard University, Cambridge, USA
2018	Master of science and executive engineering	Mines-ParisTech, Paris, France

PUBLICATIONS

On importance sampling and independent Metropolis–Hastings with an unbounded weight function

George Deligiannidis, Pierre E. Jacob, El Mahdi Khribch, Guanyang Wang
Submitted and under review for Annals of Statistics

Convergence of Statistical Estimators via Mutual Information Bounds

El Mahdi Khribch, Pierre Alquier
Submitted and under review for Journal of Machine Learning Research

AWARDS AND HONORS

2025	Best Poster Award	Bayes Comp 2025, Singapore
2018	French Government's Major-Excellence Scholarship (37,830 €)	Given to the top 40 students
2018	Top 1% students in Morocco	Concours National Commun ranking

RESEARCH EXPERIENCE

Visiting PhD Student	Warwick Department of Statistics Feb-Mar 2026
Master's Dissertation	Paris, France - 2021
– <i>On PAC Bayesian bounds: Faster rates in hostile grounds</i>	
Master's Dissertation	Oxford, UK - 2021
– <i>On mixing Times of Metropolized Algorithm with Optimization Step (MAO): A New Framework</i>	
Research Assistant	Harvard Department of Statistics - 2019
– <i>Pricing American Options: The Feed Forward Neural Network approach</i>	

TEACHING EXPERIENCE

Teaching Assistant - ENSAE	2023-2024
Simulation and Monte-Carlo Methods	
Teaching Assistant - ENSAE	2023-2024
Introduction to Stochastic Processes	
Teaching Assistant - ENPC	2023-2025
High dimensional Statistics course	

SKILLS

Programming	Python, R, \LaTeX , TensorFlow, PyTorch
Languages	English (Bilingual), French (Native Speaker), Arabic (Native Speaker), Spanish (Intermediate - European Union Reference Level B1)

ADDITIONAL INFORMATION

Sports	Football, Basketball (Played in College level regional league)
Arts & Culture	Cinema, Theater, Poetry, Member of debating club PSL University