

CLÉMENT BERENFELD

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EDUCATION

Université Paris-Dauphine <i>PhD in statistics</i>	<i>Paris, France</i> 2019 - 2022
Université Paris-Saclay <i>Graduate studies, Statistics and Machine Learning. Highest Honor</i>	<i>Orsay, France</i> 2017 - 2018
École Normale Supérieure de Paris <i>Undergraduate and graduate studies, Mathematics department. Highest Honor</i>	<i>Paris, France</i> 2014 - 2019
Lycée Sainte Geneviève <i>Preparatory school in mathematics and physics. Admitted by competitive examination to ENS Paris.</i>	<i>Versailles, France</i> 2012 - 2014

EXPERIENCES

Institut of Mathematics, Potsdam University <i>Postdoctoral Researcher</i> <ul style="list-style-type: none">- Research project on various topics of <i>unsupervised</i> learning.- Teaching the advanced statistical analysis course of the graduate program of Potsdam University.	<i>Potsdam, Germany</i> 2022 - Today
CEREMADE, Université Paris-Dauphine <i>PhD student under the supervision of Marc Hoffmann</i> <ul style="list-style-type: none">- The PhD thesis tackles numerous statistical problems formulated under the so-called <i>manifold hypothesis</i>.- Teacher assistant in statistics for undergraduate and graduate students, and supervision of master theses.	<i>Paris, France</i> 2019 - 2022
Signactif <i>Machine Learning engineer</i> <ul style="list-style-type: none">- Analysis and prediction of crowd motion through novel machine learning algorithms.	<i>Bagneux, France</i> 2017

HONORS AND AWARDS

MJLD Award : Best PhD in statistics <i>Awarded every three years by the French Statistical Society</i>	2023
Humboldt research fellowship (declined)	2023

SKILLS

Mathematics	Probability, Statistics, Machine Learning, Data Analysis
Programming	Python (including PyTorch), R
Languages	French, English (fluent), German (notions)

SELECTED PUBLICATIONS

1. Optimal reach estimation and metric learning (2023), with E. Aamari and C. Levrard. *Annals of Statistics*.
2. Estimating a density near an unknown manifold: a Bayesian nonparametric approach (2024), with P. Rosa and J. Rousseau. *Accepted for publication in Annals of Statistics*.
3. A theory of stratification learning (2024), with E. Aamari. *In revision*.

My other publications and my PhD manuscript are available on [Google Scholar](#) or my [personal webpage](#).

INTERESTS

Brazilian jiu-jitsu, rock climbing, music production.