

# Clément Bonet

## Curriculum Vitae

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### Education

2020  
2023

**Laboratoire de Mathématiques de Bretagne Atlantique (LMBA), PHD**,  
*Université Bretagne Sud*, Vannes, Bretagne, France

Bridging the Gap between Stochastic Methods and Deep Learning.  
Supervisors: François Septier, Nicolas Courty and Lucas Drumetz.

2019  
2020

**Ecole Normale Supérieure Paris-Saclay, Master 2 MVA (Mathematics, Machine Learning and Computer Vision)**, Cachan, France.

Convex Optimization, Computational Statistic, Probabilistic Graphical Model, Deep Learning, Kernel Methods, Bayesian Machine Learning. High Honors.

2017  
2020

**Télécom Paris**, Paris, France

Majors: Data Science, Random Modelization and Scientific Computing.

### Professional Experiences

#### Teaching Assistant

2022

**Linear Regression and Simulation Methods (L3)**, *Université Bretagne Sud*, Vannes, France

2021

**Mathematic Statistics (L3)**, *Université Bretagne Sud*, Vannes, France

#### Internships

2020

**Research Internship**, *MAP5*, Paris, France

Supervisors: Raphaël Lachièze-Rey, Pierre Latouche and Antoine Marchina.

Study of a subsampling algorithm using Gaussian Random Fields (<https://github.com/clbonet/Internship-MVA>).

2019

**Data Analyst Internship**, *Sodexo Benefits & Rewards Services*, Ixelles, Bruxelles

Establishment analysis of VISA and MasterCard reimbursement data as part of the replacement affiliate scholarship.

2018

**Web Development Internship**, *ZenyWay*, Paris, France

I developed the frontend interface of ZenyPass, a password manager.

### Publications

- [1] Clément Bonet, Paul Berg, Nicolas Courty, François Septier, Lucas Drumetz, and Minh-Tan Pham. "Spherical Sliced-Wasserstein". In: *International Conference on Learning Representations*. 2023.

- [2] Clément Bonet, Nicolas Courty, François Septier, and Lucas Drumetz. "Efficient Gradient Flows in Sliced-Wasserstein Space". In: *Transactions on Machine Learning Research* (2022).
- [3] Clément Bonet, Titouan Vayer, Nicolas Courty, François Septier, and Lucas Drumetz. "Subspace Detours Meet Gromov–Wasserstein". In: *Algorithms* 14.12 (2021), p. 366.

## Preprints

- [4] Clément Bonet, Laetitia Chapel, Lucas Drumetz, and Nicolas Courty. *Hyperbolic Sliced-Wasserstein via Geodesic and Horospherical Projections*. 2022.

## Other Research Experiences

Reviews I have reviewed at different conferences: AISTATS2022,2023, ICML2022 (Out-standing Reviewer), Neurips2022.

### Talks

- 13/12/2021 Subspace Detours Meet Gromov-Wasserstein. Spotlight poster at the Neurips Workshop OTML2021.
- 18/11/2021 Sliced-Wasserstein Gradient Flows. GDR ISIS OTML.

## Languages

French	Native Speaker	★★★★★★
English	623/677 TOEFL ITP (January 2019)	★★★★☆☆
German	Abitur in 2015	★★★★☆☆

## Skills

Programming	Python ★★★★★☆, LaTeX ★★★★★☆	
Basic	R, Java, C, C++, SQL, HTML, CSS, Javascript.	
Data Science	Scikit-learn, Pytorch	
Tools	Git	<i>Program Version Control and Program Repositories.</i>
OS	Linux	<i>Daily use.</i>