Clément Bonet

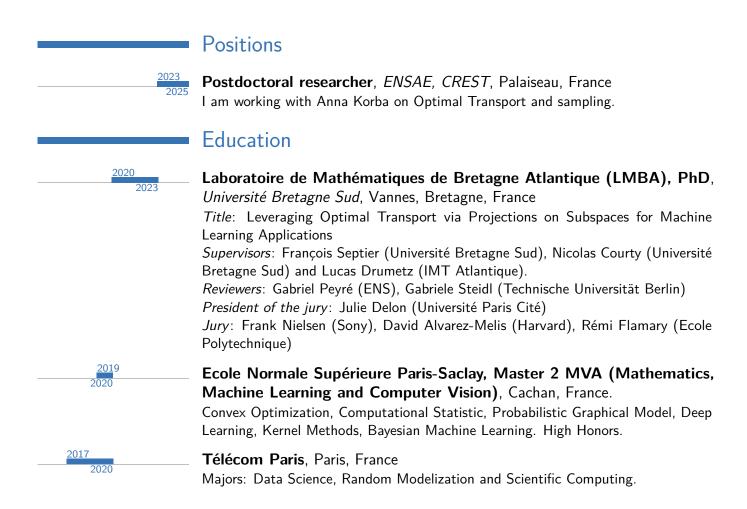
Curriculum Vitae

☑ clement.bonet@ensae.fr

☐ https://clbonet.github.io

☐ clement-bonet-2840a9153

☐ clbonet



Publications

- [1] Clément Bonet, Théo Uscidda, Adam David, Pierre-Cyril Aubin-Frankowski, and Anna Korba. "Mirror and Preconditioned Gradient Descent in Wasserstein Space". In: **Spotlight** in Advances in Neural Information Processing Systems (**NeurIPS**). 2024.
- [2] Clément Bonet, Paul Berg, Nicolas Courty, François Septier, Lucas Drumetz, and Minh-Tan Pham. "Spherical Sliced-Wasserstein". In: *International Conference on Learning Representations (ICLR)*. 2023.
- [3] Clément Bonet, Laetitia Chapel, Lucas Drumetz, and Nicolas Courty. "Hyperbolic Sliced-Wasserstein via Geodesic and Horospherical Projections". In: *Proceedings of 2nd Annual Workshop on Topology, Algebra, and Geometry in Machine Learning (TAG-ML)*. Vol. 221. Proceedings of Machine Learning Research. PMLR, 2023, pp. 334–370.
- [4] Clément Bonet*, Benoît Malézieux*, Alain Rakotomamonjy, Lucas Drumetz, Thomas Moreau, Matthieu Kowalski, and Nicolas Courty. "Sliced-Wasserstein on Symmetric Positive Definite Matrices for M/EEG Signals". In: *Proceedings of the 40th International Conference on Machine Learning (ICML)*. Vol. 202. Proceedings of Machine Learning Research. PMLR, 2023, pp. 2777–2805.

- [5] Guillaume Mahey, Laetitia Chapel, Gilles Gasso, Clément Bonet, and Nicolas Courty. "Fast Optimal Transport through Sliced Wasserstein Generalized Geodesics". In: *Spotlight* in *Advances in Neural Information Processing Systems* (*NeurIPS*). 2023.
- [6] Clément Bonet, Nicolas Courty, François Septier, and Lucas Drumetz. "Efficient Gradient Flows in Sliced-Wasserstein Space". In: *Transactions on Machine Learning Research (TMLR)* (2022).
- [7] Clément Bonet, Titouan Vayer, Nicolas Courty, François Septier, and Lucas Drumetz. "Subspace Detours Meet Gromov–Wasserstein". In: *Algorithms* 14.12 (2021), p. 366.

Preprints

- [8] Clément Bonet, Lucas Drumetz, and Nicolas Courty. *Sliced-Wasserstein Distances and Flows on Cartan-Hadamard Manifolds*. **2024**.
- [9] Jonathan Geuter, Clément Bonet, Anna Korba, and David Alvarez-Melis. *DDEQs: Distributional Deep Equilibrium Models through Wasserstein Gradient Flows.* **2024**.
- [10] Clément Bonet*, Kimia Nadjahi*, Thibault Séjourné*, Kilian Fatras, and Nicolas Courty. *Slicing Unbalanced Optimal Transport.* **2023**.

Other Research Experiences

Reviews I have reviewed at different journals/conferences: AISTATS 2022,2023, ICML 2022, 2023, 2024 (Outstanding Reviewer in 2022), Neurips 2022, 2023, 2024, ICLR 2024, TMLR since 2024.

Open source Contributor to the Python Optimal Transport library: https://pythonot.github.io.

Talks

- 05/08/2024 Level Set meeting, UCLA.
- 28/02/2024 SIAM Conference on Uncertainty Quantification (UQ24).
- 22/01/2024 Groupe de Travail (GdT) OT-PDE-ML, Institut de Mathématique d'Orsay.
- 08/01/2024 CREST Seminar, ENSAE.
- 03/07/2023 Conférence sur l'Apprentissage Automatique (CAp) 2023, Strasbourg.
- 06/10/2022 Team Seminar, IRISA.
- 07/06/2022 Laboratory Seminar, LMBA.
- 13/12/2021 Spotlight poster at the Neurips Workshop Optimal Transport and Machine Learning (OTML).
- 19/11/2021 Team Seminar of Dynamical Systems, Probabilities and Statistics, LMBA.
- 18/11/2021 Groupement de Recherche (GDR), Information Signal Image Vision (ISIS), Optimal Transport and Machine Learning (OTML), Institut Henri Poincaré.
- 24/09/2021 Team seminar, IRISA.

2024

Professional Experiences

Teaching Assistant

Optimal Transport (M2), ENSAE, Palaiseau, France

