Clément Bonet

Curriculum Vitae

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☐ https://clbonet.github.io
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^{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, Laetitia Chapel, Lucas Drumetz, and Nicolas Courty. "Hyperbolic Sliced-Wasserstein via Geodesic and Horospherical Projections". In: 2nd Annual Workshop on Topology, Algebra and Geometry in Machine Learning (TAG-ML) at the 40 th International Conference on Machine Learning. PMLR. 2023.
- [3] 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: *International Conference on Machine Learning*. PMLR. **2023**, pp. 2777–2805.
- [4] Clément Bonet, Nicolas Courty, François Septier, and Lucas Drumetz. "Efficient Gradient Flows in Sliced-Wasserstein Space". In: *Transactions on Machine Learning Research* (2022).
- [5] Clément Bonet, Titouan Vayer, Nicolas Courty, François Septier, and Lucas Drumetz. "Subspace Detours Meet Gromov–Wasserstein". In: *Algorithms* 14.12 (2021), p. 366.

Preprints

- [6] Guillaume Mahey, Laetitia Chapel, Gilles Gasso, Clément Bonet, and Nicolas Courty. Fast Optimal Transport through Sliced Wasserstein Generalized Geodesics. 2023.
- [7] Thibault Séjourné, Clément Bonet, Kilian Fatras, Kimia Nadjahi, and Nicolas Courty. *Unbalanced Optimal Transport meets Sliced-Wasserstein*. 2023.

Other Research Experiences

Reviews I have reviewed at different conferences: AISTATS2022,2023, ICML2022 (Outstanding Reviewer), ICML2023, Neurips2022.

Open source Contributor to the Python Optimal Transport library: https://pythonot.github.io: I implemented the algorithm to solve the Wasserstein distance on the circle along with the Spherical Sliced-Wasserstein distance.

Talks

03/07/2023 Spherical Sliced-Wasserstein. CAp 2023.

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 (Januarly 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 Program Version Control and Program Repositories.

OS Linux Daily use.