# Clément Bonet

# Curriculum Vitae

☑ clement.bonet@univ-ubs.fr

☐ https://clbonet.github.io
☐ clement-bonet-2840a9153
☐ clbonet



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

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

# **Preprints**

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, 2023.

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.