Léo Portales

Curriculum Vitae

IRIT, TSE, INP ENSEEIHT
✉ *Leo.Portales@irit.fr*
https://leoptls.github.io/



Education

2023–present **PhD, Optimal transport and machine learning**, *IRIT, INP Toulouse, TSE*, Toulouse.
Discretization by sampling for several optimal transport problems in machine learning.

2021–2023 : **Master of fundamental mathematics: Research and innovation**, *University Paul Sabatier*, Toulouse.

2020-2021: **License of fundamental mathematics**, *University Paul Sabatier*, Toulouse.

2017-2019 **Double License in economics and applied mathematics**, *Toulouse school of economics*, Toulouse.

Publications

Journal Articles

2024 **Léo Portales, Elsa Cazelles, Edouard Pauwels**, On the sequential convergence of Lloyd's algorithms, In *Mathematics of operations research*.

In Proceedings

2025 **Léo Portales, Edouard Pauwels, Elsa Cazelles**, Sample complexity of optimal transport barycenters with discrete support.

2026 **Elsa Cazelles, Edouard Pauwels, Léo Portales**, Statistical Estimation of Monge Transport Maps via Brenier Potentials.

Research and accademic Experience

2025 – 2026 ***Co-organizer of the IRIT SC-team PHD seminar***, *Toulouse*.

2023 – 2026 ***Teaching***, *INSA*, Toulouse.

2024 – 2026 ***Teaching***, *INP ENSEEIHT*, Toulouse.

Teaching

2023–2025 : **Integration and Fourier series**, *INP ENSEEIHT*, Tutorials, Toulouse.

2023–2025 : **Probability**, *INP ENSEEIHT*, Tutorials and lab sessions, Toulouse.

2024–2025 : **Optimization**, *Insa*, Tutorials and lab sessions, Toulouse.

2025 **Statistics**, *INP ENSEEIHT*, Tutorials and lab sessions, Toulouse.

2026 **Statistics**, *Insa*, Lab sessions, Toulouse.

2024 **Multivariate analysis**, *INP ENSEEIHT*, Tutorials and lab sessions, Toulouse.

Computer skills

Programming Languages: Python, R, Matlab, VBA