

Louis Tocquec

PhD student in applied mathematics

2A2, Institut de Mathématiques d'Orsay

📞 +33 789564516

✉ louis.tocquec@universite-paris-saclay.fr

🌐 l-tocquec.github.io

in [louis-tocquec](https://louis-tocquec.github.io)

🐙 [L-Tocquec](https://github.com/L-Tocquec)

Interests: optimal transport, convex analysis, calculus of variations, measure theory

Education

- 2024- **PhD. in applied mathematics**, *Université Paris-Saclay and Inria*
Thesis : *On entropic optimal transport and some generalizations*
Advisors : *Luca Nenna and Paul Pegon*
Univ. Paris-Saclay : *Laboratoire de mathématiques d'Orsay*
Inria : *MokaPlan and ParMa*
- 2023-2024 **MSc. in applied mathematics**, *École Normale Supérieure Paris-Saclay*
Mathématiques Vision Apprentissage (MVA)
Thesis: *ODE characterization of entropic optimal transport*
- 2022-2023 **MSc. in applied mathematics**, *Université Paris-Dauphine*
Advanced mathematics track
English track
- 2019-2022 **BSc. in applied mathematics**, *Université Paris-Dauphine, Paris*
Advanced mathematics track

Publications and Preprint

Preprint

1. **On convergence rate of regularized unbalanced optimal transport: the discrete case**, with *Luca Nenna and Paul Pegon*, 2025.
[arXiv:2507.07917v2](https://arxiv.org/abs/2507.07917v2)

[In preparation](#)
1. **A selection principle in entropic optimal transport**, with *Luca Nenna, Brendan Pass and Paul Pegon*.

Talks at conferences and seminars

- Feb. 2026 **Séminaire des doctorants du LMO**, Institut de Mathématiques d'Orsay
- Nov. 2025 **MokaMeeting**, Univ. Paris-Dauphine
- Nov. 2025 **PGMO days**, EDF Lab Paris-Saclay
- Oct. 2025 **GT ODE-PDE-ML**, Institut de Mathématiques d'Orsay
- May. 2025 **MoKarma day**, Inria Paris
- Oct. 2024 **MokaMeeting**, Inria Paris

Responsibilities

2025-2026 Organizer of the monthly seminar of the Inria MokaPlan team: "MokaMeeting".

Teaching Experience

2025-2026 Calcul numérique, univ. Paris-Saclay, L2 Maths
Calcul scientifique avec Python, univ. Paris-Saclay, L1 Maths
Équations différentielles, univ. Paris-Saclay, L2 Physics
2024-2025 Calcul numérique, univ. Paris-Saclay, L2 Maths

Languages

French Mother Tongue
English Fluent
Spanish Beginner

Computer skills

Python good command
LaTeX good command
R basic knowledge
HTML basic knowledge

Miscellaneous

Licenses permis B (driving licence), permis côtier (boat license)
Sport football (competition) , running (competition), tennis
Music classical guitar (15 years practice)