

Louis Tocquec

PhD student in applied mathematics

2A2, Institut de Mathématiques d'Orsay

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in [louis-tocquec](https://www.linkedin.com/in/louis-tocquec)

🔗 [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*
- 2024 **MSc. in applied mathematics**, École Normale Supérieure Paris-Saclay
Mathématiques Vision Apprentissage (MVA)
Thesis: *ODE characterization of entropic optimal transport*
- 2022 **BSc. in applied mathematics**, Université Paris-Dauphine
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

- Mar. 2026 **SMAI-MODE**, Nice
- 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

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