

# Louis Tocquec

*PhD student in applied mathematics*

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*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

### 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)