Thomas Gravier

Applied Mathematics, Machine Learning, Generative Modeling & Information Geometry thomas(dot)gravier(at)gadz(dot)org | +33 6 29 65 07 50 | Paris, France | github.com/tgravier

Education



Master 2 MVA

École Normale Supérieure Paris-Saclay, 2024–2025 (Highest honours)

Applied Mathematics, Vision, Learning, Optimal Transport

14 validated courses, average grade: 17.37/20

Arts et Métiers

Master in Engineering

Arts et Métiers, 2020–2023 (Highest honours, top 10%)

Applied Mathematics, Scientific Computing, Modeling & Simulation, Optimization, Project Management



CPGE PCSI-PC

Lycee Thiers, Marseille, 2017–2020

Highly intensive preparatory classes in mathematics and physics for engineering schools.

Research & Work Experience



Research Intern

Ecole Normale Supérieure, 2025, Paris, France

Dynamical Multi-Marginal Schrödinger Bridge and application to Video generation from static and unpaired data. Probability theory, stochastic processes & Optimal transport



Research Engineer

French space agency, 2023–2024, Toulouse, France

Inverse problem algorithm, Physics-Informed Machine Learning, Signal processing



Research Intern

French space agency, 2022, Toulouse/Bordeaux, France

Development and validation of mathematical models for capillary-driven fluid dynamics, leading to the design of a filling system tested in microgravity during the October 2022 parabolic flight campaign (5-person team).

Paper Submission & Thesis

- Gravier & al. (2025). Multi-Marginal temporal Schrödinger Bridge Matching for Video generation from unpaired data. Under review at ICLR 2026.
- Master Thesis: Multi-Marginal Schrödinger Bridge Theory and Applications for Video Generation Supervised by Prof. Auguste Genovesio, Prof. Gabriel Peyré, and PhD candidate Thomas Boyer Final grade: 18/20

Awards

- 2024 EDF Excellence Scholarship awarded by EDF's Department of Mathematics & Physics for Master's studies in Mathematics
- Best Research Project French Space Agency (award included a microgravity test session during a parabolic flight campaign)

Interests

Outside of academics, I am passionate about outdoor sports and adventure.

I am actively preparing for a transatlantic sailing project, which combines navigation skills, endurance, and teamwork. I also practice paragliding, trekking, mountaineering, and climbing, always looking for new challenges in nature.

In 2022, I took part in an expedition in French Guiana, which strengthened my adaptability and resilience in extreme environments.

Languages

• English (fluent), French (native)