Hugo Malamut

Work experience

2022 – **PhD**, *under the supervision of J.-D. Benamou and G. Carlier*, Entropic regularization of optimal transport variations
Paris Dauphine - Inria Paris

2022 – **Assistant Professor**
Linear algebra (2023-2024), analysis (2022-2023), mathematics for economists (2024-2025, reference professor for a student group)

Education

2017 – 2022 **Student at Ecole Normale Supérieure (ENS)**, Paris, Department of Mathematics and Applications

2020 – 2021 **Master's Degree**, *Jussieu*
Mathematics of modeling, graduated with highest honors

Publications

- *Well-posedness and convergence of entropic approximation of semi-geostrophic equations* (2024, with G. Carlier) prepublished on arxiv
- *Convergence Rates of the Regularized Optimal Transport : Disentangling Suboptimality and Entropy* (2023, with M. Sylvestre) prepublished on arxiv
- *Entropic Optimal Transport Solutions of the Semigeostrophic Equations* (2023, with J.-D. Benamou and C. Cotter) (Journal of Computational Physics)

Talks

- *Disentangling Suboptimality and Entropy of Regularized Optimal Transport*
  - PGMO Days, November 19th, 2024
  - Optimal Transport Cargese Workshop, April 8th, 2024
  - Oberwolfach seminar on 'Variational and Information Flows in Machine Learning and Optimal Transport', November 21th, 2023
- *Semi-Geostrophic Equations: the Entropic Optimal Transport Solution*
  - Parisian Calculus of Variations seminar (GT Calva), November 25th, 2024
  - Journées SMAI-MODE (Poster session), March 29th, 2024
  - Inria Mokaplan team seminar, September 13th, 2023

Other academic activity

2023 – **Seminar Organizer**
Monthly seminar of the Dauphine-Inria team Mokaplan

2022 – **Assistant Professor**
Mathematics for economists (2024-2025), linear algebra (2023-2024), analysis (2022-2023)

Extracurricular Activities

2021 – 2022 **Economics Master's Program**, *Paris School of Economics*
Analysis and Economic Policies

2020 **Civic Service**, *7 months*, Assisting elderly people in administrative procedures, Ayyem Zamen Association

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