Ons Rameh

${\ensuremath{\boxtimes}}$ orameh@dma.ens.fr

Education and Employment

1 0	
PhD in Mathematics supervised by Max Fathi at DMA, Ecole Normale Supérieure and LPSM, Université Paris Cité.	2023 -
Topic: Asymmetric interacting particle systems and hyperbolic equations.	
Teaching Assistant (Caïman) at DMA, Ecole Normale Supérieure.	2023 -
Master 2 in Probability theory and Stochastic models, Sorbonne Université	2021 - 2022
Master 1 in Mathematics, Ecole Normale Supérieure	2020 - 2021
Bachelor's Degree in Mathematics, Ecole Normale Supérieure Bachelor's Degree in Computer Science, Ecole Normale Supérieure	2019 - 2020
Student at Ecole Normale Supérieure	2019 - 2023
Classes préparatoires aux grandes écoles MPSI-MP*, Lycée Chaptal	2017 - 2019
Experience	
Two-month research visit supervised by Pietro Caputo at University Roma 3.	May. 2025 – Jun. 2025
Research internship supervised by Max Fathi at LPSM, Université Paris-Cité. Interacting Particle Systems: Hydrodynamic Limits and Cut-off Phenomenon	Feb. 2022 - Aug. 2023
Research internship supervised by Cyril Marzouk at Ecole Polytechnique. Vertex isolation procedure applied to Erdös-Rényi graph	Feb. 2021 – Jun. 2021
Research internship supervised by Stéphane Gaïffas at Ecole Normale Supérieure. Outlier detection and adaptive robust regression at noise level	Apr. 2020 – Aug. 2020
Papers	
Cutoff phenomenon for asymmetric zero range process with monotone rates ArXiv:2410.05220	(2024, submitted)
Oral Communications	
Saint Flour Summer School, LMBP, Université Clermont Auvergne.	Jul. 2025
Roma 3 seminar, University Roma 3.	Jun. 2025
Workshop: Emergent macroscopic phenomena in non-equilibrium statistical mechanics, GSSI.	Apr. 2025
PhD students seminar, CEREMADE, Université Paris Dauphine.	Fev. 2025
Probability Seminar, LAGA, Université Paris Nord.	Jan. 2025
ICJ-UMPA joint probability seminar, Université de Lyon.	Jan. 2025
Workshop Markov, LJLL, Sorbonne Université.	Dec. 2024
MAP5-LPSM joint probability seminar, Université Paris-Cité. Les Probas du Vendredi, LPSM, Sorbonne Université.	Nov. 2024
MODAL'X probability seminar, MODAL'X, Université de Nanterre.	Nov. 2024 Oct. 2024
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Rencontres de Probabilités 2024, LMRS, Université de Rouen (Invited talk).	Sept. 2024
Saint Flour Summer School, LMBP, Université Clermont Auvergne.	Jul. 2024
Workshop: Gradient Flows, Large Deviation Theory, and Macroscopic Fluctuation Theory, Bielefeld University (Invited talk).	Jun. 2024
Reading seminar on Mixing times, Université Paris-Dauphine.	May. 2024
PhD students seminar, LPSM, Sorbonne Université.	Mar. 2024
Colloquium for PhD students, DMA, Ecole Normale Supérieure.	Jan. 2024
Probability and Statistics seminar (Phd session), LPSM, Université Paris-Cité.	Jan. 2024
PhD students seminar, IRMA, Université de Strasbourg.	Apr. 2023

Conferences, Summer Schools

Interacting particle systems and related fields, CIRM, Marseille.	Sept. 2025
Particles, Fluids and Patterns: Analytical and Computational Challenges,	Apr. 2025
GSSI, L'Aquila, Italy.	
Particle Systems and PDE's XII, University of Trieste, Italy.	Sept. 2024
Interaction PDE/Probability, CIRM, Marseille.	Jan. 2024
Mathematics of disordered systems: a tribute to Francis Comets	Jun. 2023
Scaling limits and generalized hydrodynamics, GSSI, L'Aquila, Italy.	Mar. 2023
Inhomegenous Random System, IHP.	Jan. 2023
Saint Flour Summer School, Clermont-Ferrand.	Jul. 2022
Phenomena in High Dimension, IHP.	Jun. 2022
Interaction PDE/Probability, CIRM, Marseille.	Apr. 2022
CRM-PIMS summer school (online).	Jun. 2021
Teaching	
Teaching assistant for the course "Mathematical Statistics", DMA, Ecole Normale	2023-
Supérieure. Toucher for the 1rst year source "Mathematics for Economists", DMA, Ecole Normale	2023-
Teacher for the 1rst year course "Mathematics for Economists", DMA, Ecole Normale Supérieure.	2023-

Other professional activities

aux grandes écoles, Lycée Chaptal.

Bachelor thesis supervision of two students.

Co-organizer of a tri–annual meetings "Les probas de Demain", IHP.	2024 -
Co-organizer of "Girl's Dinner" meetings between students, Ecole Normale Supérieure	2023 -
Co-organizer of "Week-end DMA", Ecole Normale Supérieure	2024
Co-organizer of a workshop on "Schramm-Loewner Evolution", LPSM, Sorbonne Uni-	2022 - 2023
versité.	

2024 2022–2023

Skills

Computer Skills: Python, Ocaml, LATEX, Jupyter Notebook

Language: French (Fluent), English (Fluent), Arabic (Native), German (Beginner)

Oral examinations for 1rst and 2nd year math and physics students in classes préparatoires