

Lucas D'ALIMONTE

Curriculum Vitae

PERSONAL DETAILS

<i>Address</i>	Room 16-26.102, LPSM, campus Pierre et Marie Curie. 4, place Jussieu, 75005 Paris. France.
<i>Mail</i>	<code>dalimonte@lpsm.paris</code>
<i>Birthdate</i>	02/04/1998
<i>Citizenship</i>	French
<i>Webpage</i>	https://perso.unifr.ch/lucas.dalimonte/

EDUCATION

Postdoc	2024–
<i>LPSM, Sorbonne Université, Paris, France</i>	
Hosted by Prof. Piet Lammers, funded by CNRS.	

PhD in Mathematics	2020–2024
<i>Université de Fribourg, Fribourg, Switzerland</i>	
Under the supervision of Prof. Ioan Manolescu.	
Defended on October 7th, 2024	
Title of the dissertation: <i>Contributions to the phase separation problem and Ornstein–Zernike theory.</i>	

Masters in Probability	2019–2020
<i>Université d'Orsay, Paris, France</i>	

Research internship	2019
<i>University of California, Berkeley, USA</i>	
5 months research internship under the supervision of Prof. Alan Hammond.	
Title of the thesis: <i>Oriented random walks constrained by area trapping and their link with the KPZ universality class.</i>	

Student of ENS Paris	2017–2020
<i>Ecole Normale Supérieure, Paris, France</i>	

Preparatory classes	2015–2017
<i>Lycée Louis le Grand, Paris, France</i>	
MPSI/MP. Admission after national examination in ENS Paris.	

PREPRINTS AND ARTICLES

- [3] *Near critical Ornstein–Zernike theory for the planar random cluster model.* (Joint with Ioan Manolescu). Submitted, arXiv:2510.13648
- [2] *Exact cube-root fluctuations in an area-constrained random walk model.* (Joint with Romain Panis). Submitted, arXiv:2311.12780
- [1] *Entropic repulsion and scaling limit for a finite number of non-intersecting subcritical FK interfaces.* **Electronic Journal of Probability**, Vol. 29, paper no. 68, 1-53.

RESEARCH TALKS

October 2025	LAGA probability seminar, Université Paris Nord
October 2025	SPACE seminar, Institut Denis Poisson, Tours
June 2025	Seed seminar, Institut Henri Poincaré, Paris
January 2025	Winter school on disordered media, Rényi Institute, Budapest
January 2025	Séminaire “Les probas du Vendredi”, Sorbonne Université, Paris
July 2024	Probability seminar, Institut Fourier, Grenoble
April 2024	Mathematical Physics seminar, University of Geneva
December 2023	Probability and Analysis seminar, IHES, Paris
August 2023	Percolation and interactions workshop, CIRM
March 2023	Bern-Fribourg graduate seminar
February 2023	Workshop on Mathematical physics, Les Diablerets
July 2022	Saint-Flour probability summer school
May 2022	Mathematical Physics seminar, University of Geneva
March 2022	Bern-Fribourg graduate seminar

SCIENTIFIC ACTIVITES

Reviewer for: Annals of Probability, Electronic Communications in Probability.

TEACHING ACTIVITIES

Teaching assistant at the university of Fribourg 2020–2024
Full teaching load, corresponding to 96 hours/year. In charge of the exercises sessions for the following courses:

- Linear Algebra I and II (first year course)
- Algebra and Geometry I and II (second year course)
- Introduction to probability theory (second year course)

Volunteer teaching in a non-profit organization 2017–2018
Association Talens, Paris
Mathematics and Physics courses to High School students with an underprivileged background.

“Colleur” (oral examiner) 2016–2018
Lycée Louis le Grand preparatory classes
MPSI class

ORGANIZATIONAL RESPONSIBILITIES

2023 Co-organizer of the CUSO graduate colloquium (seminar gathering PhD students of Western Switzerland)

2022– Founder and organizer of the Young Swiss Probabilist Meeting (semiannual gathering between PhD and Post-Doctoral students in probability-related fields, with talks and informal discussions)

VISITS AND INVITATIONS

November 2023 Short-term (1 week) visit in LPSM, Paris. Invited by Prof. Piet Lammers