

# Lucas D'ALIMONTE

Curriculum Vitae

## PERSONAL DETAILS

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

## EDUCATION

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**Postdoc** 2024–  
*LPSM, Sorbonne Université, Paris, France*  
Hosted by Pr. Piet Lammers, funded by CNRS.

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

**Research internship** 2020  
*Université de Fribourg, Fribourg, Switzerland*  
6 months research internship under the supervision of Pr. Ioan Manolescu.  
Title of the thesis: *Ornstein-Zernike theory and Brownian scaling limits for interfaces of subcritical models of statistical mechanics.*

**Masters in Probability** 2019–2020  
*Université d'Orsay, Paris, France*

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

**Student of ENS Paris** 2017–2020  
*Ecole Normale Supérieure, Paris, France*

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

## PREPRINTS AND ARTICLES

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- [3] *Near-critical Ornstein–Zernike theory for planar random-cluster models.* (Joint with Ioan Manolescu). In preparation
- [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

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<i>January 2025</i>	Séminaire “Les probas du Vendredi”, Sorbonne Université, Paris
<i>July 2024</i>	Probability seminar, Institut Fourier, Grenoble
<i>April 2024</i>	Mathematical Physics seminar, University of Geneva
<i>December 2023</i>	Probability and Analysis seminar, IHES, Paris
<i>August 2023</i>	Percolation and interactions workshop, CIRM
<i>March 2023</i>	Bern-Fribourg graduate seminar
<i>February 2023</i>	Workshop on Mathematical physics, Les Diablerets
<i>July 2022</i>	Saint-Flour probability summer school
<i>May 2022</i>	Mathematical Physics seminar, University of Geneva
<i>March 2022</i>	Bern-Fribourg graduate seminar

## SCIENTIFIC ACTIVITIES

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Reviewer for: Electronic Communications in Probability.

## TEACHING ACTIVITIES

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**Teaching assistant at the university of Fribourg** 2020–  
*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**

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

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

## **VISITS AND INVITATIONS**

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