

# CYRIL LABBÉ

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Date of birth : 20 November 1987, Citizenship : French

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## CURRENT AND FORMER POSITIONS

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- 2015 - present    **Maître de Conférences** CEREMADE, University Paris-Dauphine
- 2013 - 2015      **Research fellow** Mathematics Institute, University of Warwick  
under the supervision of Martin Hairer.
- 2010 - 2013      **PhD student** LPMA, Univ. Pierre et Marie Curie - Paris 6  
Title of the thesis: Flots stochastiques et représentation lockdown.  
Supervisors: J. Berestycki and A. Lambert.  
Reviewed by: D. Dawson and J.F. Le Gall.  
Examiners: J. Bertoin, T. Duquesne, A. Etheridge, J.F. Le Gall.

## EDUCATION

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- 2009 - 2010    **Master 2** Probability theory, Univ. Paris 11 - Orsay  
Master thesis: Coalescence and random trees, supervised by G. Miermont.
- 2006 - 2010    **Ecole Centrale Paris**  
Major: Applied mathematics.
- 2004 - 2006    **Classes préparatoires** Lycée Henri IV, Paris
- 2004            **Baccalauréat** Lycée Jules Ferry, Paris

## PUBLICATIONS AND PREPRINTS

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1. *From flows of  $\Lambda$ -Fleming-Viot processes to lockdown processes via flows of partitions*,  
Electronic Journal of Probability, 2014 vol.19, no 55 pp 1-49.
2. *Genealogy of flows of continuous-state branching processes via flows of partitions and the Eve property*,  
Annales de l'Institut Henri Poincaré, 2014 vol.50, no 3 pp 732-769.
3. *Quasi-stationary distributions associated with explosive CSBP*,  
Electronic Communications in Probability, 2013 vol. 18, no 57 pp 1-13.
4. *On the Eve property for CSBP*, (with Thomas Duquesne),  
Electronic Journal of Probability, 2014 vol. 19, no 6 pp 1-31.
5. *Scaling limits of weakly asymmetric interfaces*, (with Alison M. Etheridge),  
Communications in Mathematical Physics, 2015 vol. 336, issue 1, pp 287-336.

6. *A simple construction of the continuum parabolic Anderson model on  $\mathbf{R}^2$* , (with Martin Hairer),  
Electronic Communications in Probability, 2015 vol. 20, no 43 pp 1-11.
7. *Multiplicative stochastic heat equations on the whole space*, (with Martin Hairer),  
arXiv e-print 1504:07162, accepted in Journal of the European Mathematical Society.
8. *Weakly asymmetric bridges and the KPZ equation*,  
arXiv e-print 1603.03560, submitted.

## RESEARCH INTERESTS

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- Stochastic analysis, stochastic PDEs, regularity structures, rough paths.
- Scaling limits of particle systems.
- Branching processes, coalescent processes, measure-valued processes.

## TEACHING

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| 2015-present | <b>Lecturer</b> at the University Paris-Dauphine<br>Classwork sessions on probability theory for master students.                                 |
| 2014-2015    | <b>Tutor</b> at the University of Warwick (approx. 8h.)<br>Lectures on stochastic PDEs for PhD students.  |
| 2013-2014    | <b>Tutor</b> at the University of Warwick (approx. 10h.)<br>Classwork sessions in the Probability course for PhD students.                        |
| 2010-2013    | <b>Tutor</b> at the Université Paris 6 (approx. 192h.)<br>Linear algebra (L1), Series and integrals (L2),<br>Measure theory and integration (L3). |

## TALKS

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- 2016: Frontiers in probability and analysis (Strasbourg).
- 2015: Rough Paths meeting (Berlin), Stochastic analysis colloquium (Nice), Probability seminar (Cambridge), Probability seminar (Dauphine), East Midlands Stochastic Analysis Seminar (York), School on renormalisation group theory (Warwick), Probability seminar (Lyon), SPDEs workshop (Paris), British Mathematical Colloquium (Cambridge), Rough Paths meeting (Berlin).
- 2014: Probability seminar (Bath), Probability seminar (Rennes), Stochastic analysis seminar (Oxford), Singular SPDEs summer school (Pisa), Saint-Flour summer school, Rough Paths meeting (Oxford), Statistical Mechanics Seminar (Warwick), GTX seminar (Ecole Polytechnique).

- 2013: Rough Paths meeting (Berlin), Probability seminar (Oxford), Random trees workshop (Montreal), Probability seminar (Nancy), Stochastic analysis seminar (Warwick).
- 2012: Random trees and applications workshop (Luminy), Saint-Flour summer school, Informal Workshop (Oxford).
- 2011: Paris-Bath branching structures meeting (Paris), Population Genetics workshop (Agay).

- Reviewer for *Journal of Functional Analysis*, *Electronic Communications in Probability*, *Electronic Journal of Probability*, *Stochastic Processes and their Applications*, *Stochastic PDEs: Analysis and Computations*.
- Scientific sojourn at the Department of statistics in Oxford from January to June 2012. Supervised by Alison Etheridge. Partially funded by the Fondation Sciences Mathématiques de Paris.
- English: fluent; Spanish: solid notions; Russian: to be brushed up.
- Regular practice of football and swimming.