Pierre HOUDEBERT

Post-Doc, I2M, Marseille, France

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Personal Informations

Born February 2^{nd} 1990 in Tours, France.

French Nationality.

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Aix-Marseille Université, Technopôle Château-Gombert, 39 rue F. Joliot Curie, 13453 Marseille Cedex 13 FRANCE.

Education		
May 2017	Ph.D in applied mathematics, Lille 1 University, France. Thesis: Continuum Random Cluster Model. Advisor: David DEREUDRE, professor, Lille 1 University.	
2014	French Agregation of mathematics. Rank : $26/275$.	
2013	Master's degree in mathematics , speciality probability and statistics. With Honours, Rennes 1 University, France.	
2011	Bachelor's Degree in mathematics. With Honours, Paris-Sud 11 University.	

Research Interests

- Statistical mechanics and Gibbs point processes.
- Continuum Random Cluster Model.
- Fortuin-Kasteleyn representation.
- Percolation theory.
- Phase transition.

Publications

- **2017**+ D. DEREUDRE and P. HOUDEBERT, *Phase transition for continuum Widom-Rowlinson model with random radii*, arXiv:1712.01729.
- **2017**+ C. Hofer-Temmel and P. Houdebert, Disagreement percolation for marked Gibbs point processes, arXiv:1709.04286.
- **2018** P. HOUDEBERT, Percolation results for the continuum random cluster model, Adv. Appli. Prob. 50.1.
- **2015** D. DEREUDRE and P. HOUDEBERT, *Infinite volume continuum random cluster model*, Electron. J. Probab. 20 no. 125.

Scientific Talks

January 2018	Uniqueness of Gibbs point processes. Workshop on Transformations and phase transitions, Bochum, Germany.
October 2017	Existence and uniqueness of Gibbs point processes. Probability seminar, IRMAR, Rennes, France.
September 2017	Existence and uniqueness of Gibbs point processes. Probability seminar, I2M, Marseille, France.
December 2016	Percolation of the Continuum Random Cluster Model. Probability seminar, CWI, Amsterdam, Netherlands.
June 2016	Continuum Random Cluster Model. AU Workshop on stochastic geometry, stereology and their applications, Sandbjerg, Denmark.
January 2016	Continuum Random Cluster Model. Workshop on Continuum Percolation, Lille, France.
January 2016	Continuum Random Cluster Model. Probability seminar, Institut Fourier, Grenoble, France.
November 2015	Continuum Random Cluster Model. Statistical mechanics seminar, Warwick University, England.
October 2015	Continuum Random Cluster Model. Probability seminar, Laboratoire Paul Painlevé, Lille 1 university, France.

Continuum Random Cluster Model.

Berlin-Padova Workshop, Berlin.

Widom-Rowlinson Model.

Stochastic Geometry Days, Poitiers, France.

August 2015

October 2014

Teaching

- Winter 2017 Series and probabilities (24 hours). L2 PEIP, Polytech Lille, France.
- Autumn 2016 Differential and integral calculus (40 hours).

 First year biology students, Lille 1 university, France.
- **Autumn 2016** Programming in R for statistics (24 hours). Fourth year biology students, Lille 1 university, France.
- Winter 2016 Probability and statistics, exercises and programming (36 hours). Second year informatics students, Lille 1 university, France.
- **Autumn 2015** Differential and integral calculus (30 hours). Second year engineer students, Polytech Lille, France.
- Winter 2015 Series, power series, Fourier series (30 hours).
 Second year physics students, Lille 1 university, France.
- Winter 2015 Matrix, exercises (15 hours).

 Second year economics students, Lille 1 university, France.
- **Autumn 2014** Differential and integral calculus, exercises (15 hours). Second year economics students, Lille 1 university, France.

Other Skills

Languages French: Native Language.

English : Fluent. German : Notion.

Computer Scilab, Matlab, Latex, R, Git.