

Amaury FRESLON

Citizenship : French

Married, one child

Born 29/10/1987

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Adress

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Positions

- **Maître de Conférences** Orsay, France
Université Paris-Sud XI 2015 - present
- **Post-doctoral researcher** Saarbrücken, Germany
Universität des Saarlandes 2014 - 2015
- **Ph.D. student** Paris, France
University Paris VII 2011 - 2014

Education

- **University Paris VII** Paris, France
Ph.D. in Mathematics 2011 - 2014
— Advisor : Étienne BLANCHARD
- **École Normale Supérieure** Paris, France
Studies in Mathematics 2007 - 2011
- **Preparatory classes** Tours, France
Preparation for competitive exams to enter "Grandes Écoles" 2004 - 2007

Degrees

- **Ph.D. in Mathematics** Paris, France
University Paris VII 2013
— Title : Approximation properties for discrete quantum groups
- **Master in Mathematics** Paris, France
University Paris VII 2010
— Advisor : Étienne BLANCHARD
- **Agrégation externe de Mathématiques**
Competitive exam giving a position in the public education system 2009

Publications and preprints

20. *Positive definite functions and cut-off for discrete groups*, preprint (2018).
19. *Topological generation and matrix models for quantum reflection groups* (with M. Brannan and A. Chirvasitu), preprint (2018).
18. *On the representation theory of some noncrossing partition quantum groups*, preprint (2018).
17. *Quantum reflections, random walks and cut-off*, to appear in *Internat. J. Math.* (2018).
16. *Cut-off phenomenon for random walks on free orthogonal quantum groups*, to appear in *Probab. Theory Related Topics* (2018).
15. *Torsion and K-theory for some free wreath products* (with R. Martos), to appear in *Internat. Math. Res. Not.* (2018).
14. *On two-coloured noncrossing partition quantum groups*, preprint (2017).
13. *Modelling questions for quantum permutations* (with T. Banica), *Infin. Dimens. Anal. Quantum Probab. Relat. Top.* **21** (2018), n° 2, 1–26.
12. *The radial MASA in free orthogonal quantum groups* (with R. Vergnioux), *J. Funct. Anal.* **271** (2016), n° 10, pp. 2776–2807.
11. *Wreath products of quantum groups by finite groups* (with A. Skalski), *J. Noncommut. Geom.* **12** (2018), n° 1, pp. 29–68.
10. *On the partition approach to Schur-Weyl duality and free quantum groups* (with an appendix by A. Chirvasitu), *Transform. Groups* **22** (2017), n° 3, pp. 707–751.
9. *On bi-free de Finetti theorems* (with M. Weber), *Ann. Math. Blaise Pascal* **23** (2016), n° 1, pp. 21–51.
8. *Permanence of approximation properties for discrete quantum groups*, *Ann. Inst. Fourier* **65** (2015), n° 4, pp. 1423–1436.
7. *Fusion (semi)rings arising from quantum groups*, *J. Algebra* **417** (2014), pp. 161–197.
6. *On the representation theory of partition (easy) quantum groups* (with M. Weber), *J. Reine Angew. Math.* **720** (2016), pp. 155–197.
5. *Graphs of quantum groups and K-amenability* (with P. Fima), *Adv. Math.* **260** (2014), pp. 233–280.
4. *CCAP for universal discrete quantum groups* (with K. De Commer and M. Yamashita and an appendix by S. Vaes), *Comm. Math. Phys.* **331** (2014), n° 2, pp. 677–701.
3. *Examples of weakly amenable discrete quantum groups*, *J. Funct. Anal.* **265** (2013), n° 9, pp. 2164–2187.
2. *A note on weak amenability for reduced free products of discrete quantum groups*, *C. R. Acad. Sci. Paris Ser. I*, **350** (2012), n° 7–8, pp. 403–406.
1. *Approximation properties for discrete quantum groups*, Ph.D. Thesis (2013).

Languages

French (native), English (fluent), Spanish (read), basics in Latin and ancient Greek.