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## Charles Bordenave

Born on July 13th 1977

French citizenship

E-mail: charles.bordenave@math.univ-toulouse.fr

Web: www.math.univ-toulouse.fr/~bordenave/

UNIVERSITÉ PAUL SABATIER

Institut de Mathématiques de Toulouse

118 route de Narbonne

31062 Toulouse - France

## Academic Positions

CNRS researcher at Institut de Mathématiques de Toulouse.

October 2011 - November 2012 University Roma Tre, Rome. Long term

visitor.

November 2006 - October 2007 . . . . . . University of California, Berkeley.

Post-doctor under the supervision of David Aldous and Venkat Anantharam.

Partly supported by a Lavoisier grant.

## EDUCATION

September 2003 - September 2006 .. École Normale Supérieure, Paris.

PhD thesis under the supervision of François Baccelli on "Stochastic analysis of spatial networks'. Laureate of 2007 thesis prize of École Polytechnique.

September 2001 - June 2003 ......École Nationale Supérieure des **Télécommunications**, Paris.

State Engineer from "Corps des Télécommunications" (today merged within "Corps des Mines").

September 2001 - June 2002 ... Master in Applied Mathematics, École Normale Supérieure de Cachan, Cachan.

September 1998 - June 2001 ...... École Polytechnique, Palaiseau.

Publications 36 published or accepted articles in international journals, 5 articles in proceedings of international conferences with program committee and 2 book chapters including

- C. Bordenave, A. Sen and B. Viràg. Mean quantum percolation. To appear in Journal of the European Mathematical Society.
- C. Bordenave, P. Caputo. A large deviation principle for Wigner matrices without Gaussian tails. Annals of Probabability, 42(6):2454-2496, 2014.
- C. Bordenave, P. Caputo, and D. Chafaï. Spectrum of Markov generators on sparse random graphs. Communications in Pure and Applied Mathematics, 67(4):621-669, 2014.

C. Bordenave, D. McDonald and A. Proutière Asymptotic stability region of slotted-Aloha. **IEEE Transactions on Information Theory**, Vol. 58(9) 5841-5855, (2012).

Conferences Since January 2006, invited speaker in more than forty international conferences and in more than forty academic seminars.

Teaching

Research schools: North East Normal University, Changchun (2011), AGH University of Science and Technology, Krakow (2013), Rényi Institute, Budapest (2014), Indian Institute of Science, Bangalore (2014), Swiss Doctoral School, Ovronnaz (2014) Institute Henri Poincaré, Paris (2014), CIRM-Luminy, Marseille (2015), Institut Scientfique Cargèse, Corsica (2015). University of Michigan, Ann Arbor (2016), IHES, Paris (2017).

Master courses: University Paul Sabatier (2009-2013). University Roma Tre (2012), CNR Roma (2012), University of Buenos Aires (2016).

Teaching assistant, bachelor level courses and mini-courses: École Normale Supérieure, Paris (2003-2005) and (2012-2013), University La Havana, Cuba (2010), ISAE, Toulouse (2016).

SUPERVISION

Two PhD students (2014-present and 2016-present), five students in 3-months internships (2010-present).

COMMUNITY ACTIVITIES

Since January 2016, associate Editor for the journals **Annals of Applied Probability** and **Bernoulli**. More than ten reviews each year for international journals. Member of **hiring committees** for 14 academic positions (2009-2015) in French universities and INRIA.

Co-organizer of **F. Baccelli 60th birthday conference**, Paris 2015 and **Spectrum of random graphs**, Marseille, 2016. Organizer of sessions for **SPA** Buenos Aires 2014 and **Journées MAS** Bordeaux 2010. Organizer of **Toulouse weekly probability seminar** (2008-2011). Member of **program committees** for three international conferences.

Awards Grants AND Best thesis prize of École Polytechnique (2007). Lavoisier Grant (2007). CNRS scientific excellence (2009-2013). Marc Yor Prize (2017). ANR (French NSF) shared grants ANR-14-CE25-0014 (2014-2018), ANR-08-BLAN-0190 (2008-2012), ANR-11-JS02-005-01 (2012-2016), coordinator for ANR-16-CE40-0024-01 (2017-2021).

Languages French: native; English: fluent; Italian: good; German: basic.