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# Charles Bordenave

Born on July 13th 1977	UNIVERSITÉ PAUL SABATIER
French citizenship	Institut de Mathématiques de Toulouse
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**ACADEMIC POSITIONS**      **Since December 2007**..... **University Paul Sabatier**, Toulouse.  
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 Probability**, 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) **Insitute 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 AND GRANTS 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.