

PERSONAL INFORMATION

Family and first name: **Bordenave, Charles**

ORCID: <https://orcid.org/0000-0002-4590-923X>

Date of birth: July 13th 1977

Nationality: French

Website: <http://www.i2m.univ-amu.fr/perso/charles.bordenave/>

EDUCATION

- 2012 **Habilitation to supervise PhD thesis**, sponsor Michel Ledoux, University of Toulouse.
- 2003-2006 **PhD under the supervision of François Baccelli**, Ecole Normale Supérieure.
- 2001-2003 **Télécom Paris**, student State Engineer.
- 2001-2002 **MS in Applied Mathematics**, Ecole Normale Supérieure de Cachan.
- 1998-2001 **Ecole Polytechnique**, BS student.

CURRENT POSITION

- 2018- **Institut de Mathématiques de Marseille**, Research Director at CNRS since 2019.

PREVIOUS POSITIONS

- 2017-2018 **IMPA, Instituto de Matemática Pura e Aplicada**, Rio de Janeiro, Research Fellow at CNRS.
- 2011-2012 **University Roma Tre**, Dipartimento di Matematica, long term visitor.
- 2007-2017 **Institut de Mathématiques de Toulouse**, Research Fellow at CNRS.
- 2006-2007 **University of California, Berkeley**. Post-doctoral fellow under the supervision of David Aldous and Venkat Anantharaman.

FELLOWSHIPS AND AWARDS

- 2023 **Invited Professor**, RIMS, University of Kyoto.
- 2019 **IMS Medallion Lecturer**.
- 2019 **JSPS Invited Professor**, University of Kyoto.
- 2017 **Prize Marc Yor of the French Academy of Science** (first prize given).
- 2008-2021 **French grants** ANR-14-CE25-0014 (2014-2018), ANR-08-BLAN-0190 (2008-2012), ANR-11-JS02-005-01 (2012-2016), ANR-23-CE40-0003 (2023-2027) **Principal Investigator** [ANR-16-CE40-0024-01](#) (2017- 2021).
- 2007 **EU Lavoisier Grant**.
- 2007 **PhD Prize of École Polytechnique**.

SUPERVISION OF GRAD STUDENTS AND POSTDOCTORAL FELLOWS

Posdoctoral Fellows : [David Garcia-Zelada](#) 2018-2021 (Assistant Professor, University Marie and Pierre Curie).

PhD Students : [Fanny Augeri](#) 2014-2017 (Assistant Professor, University Paris Diderot), [Simon Coste](#) 2016-2019 (Assistant Professor, University Paris Diderot), [Adam Arras](#) 2019-2023 (Postdoctoral fellow, Rényi Institute), [Bastien Dubail](#) 2020-2023 (Postdoctoral fellow, KTH), [Sarah Timhadjelt](#) 2020-2024 (Postdoctoral fellow, Bonn), [Joffrey Mathien](#) 2022-present, [Rémi Bonnin](#) 2024-present.

Graduate Students, three months internships : **University of Toulouse**, [Lee Dinetan](#) 2010, [Ghuru-muruhan Ganesan](#) 2011, [Aurélien Nicosia](#) 2013, [Victor Marx](#) 2013, [Yiyang Xiao](#) 2015, **Aix-Marseille University**, [Bastien Dubail](#) 2019, [Sarah Timhadjelt](#) 2020, [Alexandre Bristiel](#) 2020, [Joffrey Mathien](#) 2022, [Rémi Bonnin](#) 2023.

PUBLICATIONS

More than 55 papers in peer-reviewed journals, 5 conference proceedings and 4 book chapters with around 60 co-authors. A full list of publication is available on my [website](#).

TEACHING ACTIVITIES

Seasonal 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*, Ovornaz 2014, *Institut Henri Poincaré*, Paris 2014, *Rescom 2014*, Bastia 2014, *CIRM-Luminy*, Marseille 2015, *Institut Scientifique Cargèse*, Cargèse 2015, *Santa Fe Institute*, Santa Fe 2015, *University of Michigan*, Ann Arbor 2016, *IHES*, Bures-sur-Yvette 2017, *Indian Institute of Science*, Bangalore 2019, *Institut Henri Poincaré*, Paris, 2022, *École Polytechnique*, France, 2023, *Univ. Bucharest*, Romania 2023, *Univ. Copenhagen*, Danemark 2024.

Master and PhD courses : *University of Toulouse* 2009-2013, *University Roma Tre*, Roma 2012, *IAC-CNR Roma* 2012, *University of Buenos Aires* 2016, *Instituto de Matemática Pura e Aplicada* 2018, *University of Kyoto* 2021, *Aix-Marseille University*, 2024.

Graduate and short courses : *École Normale Supérieure*, Paris 2003-2005 (Teaching Assistant), *University La Havana*, Cuba 2010 (10h), *ISAE-SUPAERO* (Aerospace Engineering School), Toulouse 2016 (8h), *École Normale Supérieure*, Paris 2012-2013 (6h per year), *École Centrale Marseille*, Marseille 2019-2022 (28h per year).

ORGANIZATION OF SCIENTIFIC MEETINGS

Co-organizer of conferences : *F. Baccelli 60th birthday conference*, IHP, Paris 2015, *Spectrum of random graphs*, CIRM, Marseille 2016, *Spectra, Algorithms and Random Walks on Random Networks*, CIRM, Marseille 2020, *Oberwolfach Seminar : Cut-off Phenomenon*, Oberwolfach 2021. *Random hyperbolic surfaces and random graphs*, CIRM, Marseille 2024.

Invited session organizer : *Stochastic Processes and Applications*, Buenos Aires 2014, *Journées MAS*, Bordeaux 2010, *21th INFORMS Applied Probability Society Meeting*, Nancy 2022, *Stochastic Processes and Applications*, Wuhan 2022.

Local seminar organizer : *Toulouse probability seminar* 2008-2011, *Marseille probability seminar* 2018-2024, *Marseille Mathematics Colloquium FRUMAM*, 2019-present.

Program committee : *7th and 8th Spatial Stochastic Models for Wireless Networks*, Princeton 2011, Paderborn 2012, *Modèles et Analyse des Réseaux*, Toulouse 2010, *Japan-French Frontiers of Science*, Paris 2012, *21th INFORMS Applied Probability Society Meeting*, Nancy 2022.

INSTITUTIONAL RESPONSABILITIES

Chair : [FRUMAM](#) (since 2023) a CNRS regional federative institute for mathematics.

Hiring committee : member of selection committee for 18 tenured academic positions *Assistant Professor* (2009-2024), 2 *Full Professor* (2020,2022) for French or European universities.

Scientific expertise : reports for grant panels *ERC Starting Grant* (2017,2020,2021,2023), *German DFC* (2017,2020), *French ANR* (2016,2017,2018,2021), *Austrian FWF* (2021,2023 - chair of one panel), 5 **tenure** evaluations, **scientific board** of French *Research Network MEGA* (since 2017), HCERES French lab evaluation committee (2024).

Academic Prize : Member of the committee for (Senior) [Fermat Prize 2021](#), external opinion for [Rollo Davidson Prize](#) 2022.

REVIEWING ACTIVITIES

Associate Editor: *Annales de la Faculté des Sciences de Toulouse* (since 2020), *Annals of Probability* (2018-2023), *Annals of Applied Probability* (2016-2022), *Bernoulli Journal* (2016-2022).

Referee for many peer-reviewed journals (around 10 reports per year 2006-2016, 5 since 2017).