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## Curriculum Vitae

MARC BOCQUET

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### Personal information:

Office address:

CEREA, joint laboratory École des Ponts ParisTech and EDF R&D  
École des Ponts ParisTech,  
Cité Descartes, Champs-sur-Marne,  
77455 Marne la Vallée Cedex, France.

French, born: 25.05.1969, married, three children.

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### Education

2007: Habilitation degree in physics, Université Pierre et Marie Curie, *Non-Gaussian inverse modelling and data assimilation for the atmospheric tracers. Application to ETEX, Algeciras and Chernobyl.*

2000: PhD in theoretical physics at the now called Institut de Physique Théorique (IPhT), CEA, Saclay, France; Title: *Spin chains, Dirac fermions and Disordered Systems*; granted summa cum laude by École Polytechnique.

1994-1997: Diploma of École des Ponts. Master degree in theoretical physics (summa cum laude) from École Polytechnique. Diploma of École Polytechnique.

### Current position:

2010-present: Professor at École des Ponts ParisTech-Université Paris Est.

2008-present: Senior researcher and deputy leader of CEREA (Atmospheric Environment Centre), a joint laboratory of École des Ponts ParisTech and EdF R&D.

2008-2014: Scientific co-leader of the INRIA & École des Ponts ParisTech project-team CLIME.

2002-2008: Researcher at École des Ponts ParisTech.

### Previous positions:

2001-2002: Postdoctorate fellow at the now called Rudolf Peierls centre for theoretical physics in Oxford University, UK, in theoretical condensed matter physics (adviser: John Chalker).

2000-2001: Postdoctorate fellow in the theoretical physics group of the department of physics of the Warwick University, UK, in theoretical condensed matter physics (adviser: Fabian Essler).

### Teaching:

2009-present: Graduate class on *Introduction to data assimilation* in the Master of Sciences programme OACOS (ocean, atmosphere, climate).

2009-2015: Graduate class on *Environment and Society* in the Master of Sciences programme *Nuclear Energy*.

2002-2008: Graduate class on *Introduction to the methods of data assimilation and inverse modelling* at ENSTA ParisTech and École des Ponts ParisTech.

### Adviser of graduate students and postdoctoral fellows:

5 postdoctorate fellows (2006-) / 12 PhD students (2002-) / 10 master students (2002-).

**Bibliometry (as of September 30, 2017):**

Author of 78 published papers in international peer-reviewed journals, 8 chapters in collective volumes, 2 books. Cited 1814 times (1474 times without self-citations) in ISI web of Knowledge∪Scopus, 2849 in google scholar. He has a h-index of 25 (ISI web of Knowledge∪Scopus), 32 (google scholar), a g-index of 37 (ISI web of Knowledge).

ORCID account: <http://orcid.org/0000-0003-2675-0347>.

Research ID: E-1966-2011.

Scopus author ID: 8968458700.

IdHal: marc-bocquet

**Conferences:**

Organizer or co-organizer of more than 15 conferences, workshops, summer schools.

About 100 talks, seminars in France and abroad (ECMWF, NCAR, Reading University, Warwick University, Maryland University, Grenoble University, Pierre et Marie Curie University, Peking University, Institute of Atmospheric Physics in Beijing, etc.) in institutes, universities, seminars, workshops, conferences, and summer schools.

**Institutional responsibilities:**

2014-present: Chair of the SAMA group for *Statistics for Analysis, Modelling and Assimilation* of the Pierre-Simon Laplace Institute (IPSL), <http://sama.ipsl.jussieu.fr/>, Paris, France. This consists of the organisation of joint seminars, management of joint events, fostering of inter-laboratory projects, etc.

2009-present: École des Ponts liaison of the master of sciences OACOS, Paris, France.

2008-present: Deputy director of CEREA, École des Ponts ParisTech, France.

2008-2014: Scientific co-leader of INRIA & École des Ponts ParisTech project-team CLIME.

2005-2012: Elected member of the École des Ponts ParisTech Board of Directors, France.

2002-present: Faculty member of École des Ponts ParisTech.

**Commissions of Trust:**

2014-2015: Chair of the French Evaluation Agency (HCERES) committee for the scientific evaluation of the joint CNRS & Cerfacs laboratory SUC, CNRS research unit 1875, Toulouse, France.

2013-present: Member of the Prix André Prud'Homme committee of the French Meteorological Society.

2012-present: Member of the CERFACS scientific council, Toulouse, France.

2011-present: Associate Editor for the Quarterly Journal of the Royal Meteorological Society.

2011-present: Vice-chair of the CNRS/LEFE/INSU scientific council MANU (*Mathematical and Numerical methods for the geosciences*).

2005-2010: Invited member, then member, then co-chair of the CNRS/LEFE/INSU scientific council ASSIM (*Data assimilation for the geosciences*).

2005-present: Number of participations in PhD and Habilitation degree defence committees: ~ 35.

**Selected recent papers:**

Bocquet, M., 2011. Ensemble Kalman filtering without the intrinsic need for inflation. *Nonlin. Processes Geophys.* 18, 735–750.

Bocquet, M., 2016. Localization and the iterative ensemble Kalman smoother. *Q. J. Roy. Meteor. Soc.* 142, 1075–1089.

Bocquet, M., Pires, C. A., Wu, L., 2010. Beyond Gaussian statistical modeling in geophysical data assimilation. *Mon. Wea. Rev.* 138, 2997–3023.

Bocquet, M., Raanes, P. N., Hannart, A., 2015. Expanding the validity of the ensemble Kalman filter without the intrinsic need for inflation. *Nonlin. Processes Geophys.* 22, 645–662.

Bocquet, M., Sakov, P., 2014. An iterative ensemble Kalman smoother. *Q. J. Roy. Meteor. Soc.* 140, 1521–1535.