

# Curriculum Vitae

MARC BOCQUET

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## Contact information

### Office address:

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## Research fields

Mainly active in Data assimilation, Machine learning, Inverse problems, Statistics and Applied mathematics applied to the Geosciences, in particular Meteorology, Atmospheric chemistry and Climate sciences.

## Education

**2007:** Habilitation degree in physics, Université Pierre et Marie Curie.

**2000:** PhD in theoretical physics at the now called Institut de Physique Théorique (IPhT), CEA, Saclay, France; 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, Institut Polytechnique de Paris.

**2008-present:** Senior researcher and deputy director of CEREA (Atmospheric Environment Centre), laboratory of École des Ponts 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.

**2000-2001:** Postdoctorate fellow in the theoretical physics group of the department of physics of the Warwick University, UK, in theoretical condensed matter physics.

## Teaching

**2009-present:** Graduate class on *Introduction to data assimilation* in the Master of Sciences programmes *WAVE* and *MOCIS* (formerly *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

10 postdoctorate fellows (2006-) / 18 PhD students (2002-) / 12 master students (2002-).

## Bibliometry (as of September 17, 2024)

Author of **138** published papers in international peer-reviewed journals, **10** chapters in collective volumes, **2** books. Cited **5452** times (**4767** times without self-citations) in ISI web of Knowledge∪Scopus, **9371** in google scholar. h-index of **42** (ISI web of Knowledge∪Scopus), **52** (google scholar), g-index of **67** (ISI web of Knowledge).

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Research ID: E-1966-2011.

Scopus author ID: 8968458700.

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## Conferences

Organiser or co-organiser of more than **20** conferences, workshops, summer schools.

About **150** talks in France and abroad in institutes, universities, seminars, workshops, conferences, and summer schools.

## Institutional responsibilities

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

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

**2014-present:** Co-chair and member of the bureau of the SAMA group for *Statistics for Analysis, Modelling and Assimilation* of the Pierre-Simon Laplace Institute (IPSL), Paris, 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:

**2021-present:** Member of the scientific council of the CNRS GdR (Research Group) *Défis théorique pour les sciences du climat*.

**2021-present:** Associate Editor for the topic Dynamical Systems. *Frontiers in Applied Mathematics and Statistics*.

**2019-present:** Fellowship of the European Centre for Medium-Range Weather Forecasts (ECMWF).

**2019-present:** Associate Editor, *Foundations of Data Science*, journal of the AIMS.

**2018-2023:** Guest Editor for the topic Data Assimilation of Nonlocal Observations in Complex systems of *Frontiers in Applied Mathematics and Statistics*.

**2017:** Member of the Visiting Committee of the Commissariat à l'Énergie Atomique 2017: *Impact of technologies developed at CEA on raw-materials cycle: from resources to wastes*.

**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.

**2013-2023:** Member of the Prix André Prud'Homme jury of the French Meteorological Society.

**2012-2023:** Member of the CERFACS scientific council, Toulouse, France.

**2011-2023:** Associate Editor for the Quarterly Journal of the Royal Meteorological Society.

**2011-2018:** 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:** **45** participations in PhD and Habilitation degree defence committees.