



**Honours:**

- 1984 Royal Dutch Shell Travel Award.
- 1986 Stipendium Niels Stensen Foundation Amsterdam.
- 1989 Awarded 5-year fellowship by the Royal Dutch Academy of Sciences.
- 1998 Guest professor thematic program of the Fields Institute, Toronto.
- 2000 5-year directorship of EURANDOM.
- 2002 5-year chairmanship of Scientific Programme of the European Science Foundation.
- 2003 Lévy Lecture of the Bernoulli Society, Rio de Janeiro.
- 2004 Invited lecture at the European Congress of Mathematics, Stockholm.
- 2005 Elected to the Royal Dutch Academy of Sciences.
- 2006 Distinguished Chair of the Pacific Institute for the Mathematical Sciences, Vancouver.
- 2007 Saint-Flour Probability Lectures.
- 2010 Invited lecture at the International Congress of Mathematicians, Hyderabad.
- 2010 Awarded 5-year Advanced Grant by the European Research Council.
- 2011 Bonn Research Chair at the Hausdorff Centre for Mathematics, Bonn.

**PhD students supervised:**

R. van der Hofstad, B. Gerritse, M. Biskup, J. Swart, L. Avena, A. Troiani, R. dos Santos, J. Martínez, D. Erhard.

**Postdocs supervised:**

W. König, M. Wüthrich, H. Matzinger, M. Löwe, F. Merkl, S. Volkov, J. Engländer, F. Nardi, A. LeNy, B. Lemmens, P. van der Wal, A. Sakai, F. Camia, F. Toninelli, C. Netocný, G. Maillard, R.-J. Messikh, R. Sun, N. Pétrélis, S. Blachère, C. Spitoni, D. Cheliotis, L. Xu, A. Sapozhnikov, S. Kliem, A. Klimovsky, A. Opoku, J. Goodman, C. Kalle.

**Research group at Leiden University:**

Currently the research group of probability theory consists of 1 full professor (F. den Hollander), 1 associate professor (E. Verbitskiy), 2 assistant professors (M. Heydenreich, F. Spijksma), 10 PhD students and 4 postdocs. Affiliated with the group are F. Redig (Delft) and V. Sidoravicius (Rio de Janeiro).

Of the 14 junior positions in the group, 10 are funded externally: 2 Veni grants from NWO, 2 Free competition grants from NWO, 1 PhD student and 2 postdocs from the ERC Advanced Grant of den Hollander, 1 Erasmus Mundus PhD fellowship from EU, 1 PhD fellowship from the Indonesian government, 1 Huygens PhD fellowship from Leiden University.

**Bachelor courses taught:**

Analysis, Mathematical statistics, Measure theory, Probability theory, Statistical mechanics.

**Master courses taught:**

Coupling, Gibbs measures, Interacting particle systems, Large deviations, Markov chains, Queueing theory, Percolation, Poisson approximation, Random polymers, Random processes in random media, Stochastic analysis, Stochastic models for genetic evolution.

### Invited speaker:

- Since 1990, invited speaker at 85 international conferences, workshops and summer schools (including 3 opening lectures and 8 plenary lectures); also invited mini-courses in Bath (United Kingdom), Berlin (Germany), Búzios (Brazil), Göteborg (Sweden), Göttingen (Germany), Heidelberg (Germany), Milan (Italy), Nelson (New Zealand), Paris (France), Prague (Czech Republic), Rio de Janeiro (Brazil), Rome (Italy), Rouen (France), Saint-Flour (France), Santiago (Chile).
  - **Highlights conferences:** European Congress of Mathematics, Stockholm, Sweden (2004); International Congress of Mathematicians, Hyderabad, India (2010).
  - **Highlights mini-courses:** Saint-Flour Probability Lectures, Saint-Flour, France (2007); Clay Mathematics Institute summer school, Búzios, Brazil (2010).
- Since 1985, (multiple) colloquium talks in:
  - **Europe:** Antwerpen, l'Aquila, Berlin, Bochum, Bologna, Bonn, Bristol, Budapest, Bures-sur-Yvette, Diepenbeek, Erlangen, Frankfurt, Göteborg, Göttingen, Halle, Heidelberg, Jena, Kaiserslautern, Lausanne, Leuven, Lund, Lyon, Mainz, Marseille, Milan, München, Oldenburg, Padova, Paris, Prague, Rome, Stockholm, Wrocław, Zürich.
  - **North-America:** Bethesda, Hamilton, Ithaca, La Jolla, Minneapolis, Murray Hill, New Brunswick, New York, Pittsburg, Princeton, Rochester, Seattle, Syracuse, Toronto, Troy, Vancouver.
  - **Other:** Beijing, Campinas, Melbourne, Nagoya, Rio de Janeiro, São Paulo, Tel Aviv, Tokyo.

### Invited guest abroad:

Since 1985, invited guest for periods of one month or longer at 30 international institutions, with sabbatical leaves and guest professorships at:

- February–April 1986:  
Institute for Mathematics and its Applications, University of Minnesota, Minneapolis, Minnesota, USA.
- October–December 1986:  
Mathematics Department, Cornell University, Ithaca, New York, USA.
- April–July 1989:  
Institut für Angewandte Mathematik, Universität Heidelberg, Heidelberg, Germany.
- January–February 1991:  
Department of Mathematics, Rutgers University, New Brunswick, New Jersey, USA.
- May–July 1991 and January–February 1993:  
Institut für Mathematische Stochastik, Universität Göttingen, Göttingen, Germany.
- August 1998 – January 1999:  
Fields Institute for Research in Mathematical Sciences, Toronto, Canada.

- January–August 2006 and June–July 2009:  
Pacific Institute for the Mathematical Sciences, Vancouver, Canada.
- January–August 2011:  
Hausdorff Centre for Mathematics, University of Bonn, Germany.

#### Co-organization:

- *Mark Kac seminar on Probability and Physics*  
(national seminar, 1985–1999).
- *Master Class of the Mathematical Research Institute*  
(national master program, 1992–1994).
- Steering committee of the scientific program on *Random Dynamics in Spatially Extended Systems* of the European Science Foundation (13 participating countries)  
(2002–2006 chair).
- *Lunteren meeting*, with M.-C. van Lieshout and A. van der Vaart  
(annual Dutch stochastics meeting;  $\geq 2011$ ).
- Since 1995, co-organized 12 national and 15 international conferences, workshops and summer schools on a variety of topics in probability theory and statistical physics (including 8 at EURANDOM, 3 at the Forschungsinstitut Oberwolfach, 1 at the Ecole Physique in Les Houches, 1 at the Fields Institute in Toronto, 1 at Banff International Research Station, 1 at the Lorentz Centre in Leiden, 1 at the Institute for Mathematical Sciences in Singapore).
- **Highlight proceedings:** *Mathematical Statistical Physics*, Proceedings of the ESF-RDSES Summer School at the Ecole Physique in Les Houches, France, July 2005 (eds. A. Bovier, J. Dalibard, F. Dunlop, A. van Enter and F. den Hollander), Elsevier, Amsterdam, 2006, XXXI + 816 pp.

#### Administration:

- **Netherlands Organisation for Scientific Research:**
  - Board of the Priority Program on Mathematical Physics  
(1992–2000; 1996–2000 chair).
  - Advisory Board on Mathematics  
(1999–2004).
  - Scientific committee reviewing the Centre for Mathematics and Computer Science in Amsterdam  
(2005 chair).
- **Royal Dutch Academy of Sciences:**
  - Foresight committee advising on the future of Dutch mathematics  
(1998–1999; report: *Toekomst Wiskunde Onderzoek Nederland*).

- Foresight committee advising on the future of Dutch biomathematics (2005–2008; report: *Biomathematics: a vision for success*).
  - Board of the Advisory Council on Mathematics (2002–2009; 2007–2009 chair).
  - Board of the Advisory Council on Exact Sciences (2008–2012;  $\geq 2011$  chair).
- **EURANDOM:**
    - Coordinator of the research program *Interacting Stochastic Systems* (1998–2004 with M. Keane).
    - Coordinator of the research program *Random Spatial Structures* ( $\geq 2004$  with R. van der Hofstad).
    - Scientific Director (2000–2005).
- **Dutch research institutes:**
    - Board of the Mathematical Research Institute (1996–2000; 1996–1999 chair).
    - Program committee of the National Mathematics Days of the Freudenthal Institute in Utrecht (1998–2003).
    - Advisory Council on Mathematics of the Lorentz Center in Leiden (2002–2007; 2002–2005 chair).
    - Board of the consortium of Dutch Research Schools in Mathematics (2005–2009 chair).
    - Scientific Council of the Korteweg de Vries Institute of the University of Amsterdam ( $\geq 2005$ ).
    - Board of the Thomas Stieltjes Institute for Mathematics (2006–2011; 2008–2011 director).
    - Board of the Centre for Mathematics and Computer Science in Amsterdam (2007–2013).
    - Science Committee of the Faculty of Sciences of Leiden University (2011–2015).
- **International research institutes:**
    - Review panel of the Engineering and Physical Sciences Research Council evaluating the Isaac Newton Institute in Cambridge, United Kingdom (2002–2003).
    - Advisory council of the Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany (2005–2013).
    - Review panel of the Department of Mathematics of the University of Rome 3, Italy (2007).

- Referee of the Center for Mathematical Modeling, Santiago, Chile (2008).
- **Societies:**
  - European Regional Committee of the Bernoulli Society (1996–2000).
  - Council of the Bernoulli Society (2003–2007).
  - Committee of Stochastic Sciences Institutes of the Bernoulli Society (2004–2006 chair).
  - Council of the Institute of Mathematical Statistics (2006–2009).
  - Publications Committee of the Bernoulli Society ( $\geq 2011$ ).
- **Prize committees:**
  - Chair of the committee awarding the *Brouwer Medal* of the Dutch Mathematical Society, 2002; recipient: M. Aizenman.
  - Member of the committee awarding the *Carl Friedrich Gauss prize* at the International Congress of Mathematicians, Madrid, 2006; recipient: K. Itô.
- **International refereeing:**
  - Referee of the Schwerpunkt *Interacting Stochastic Systems of High Complexity* of the German National Science Foundation (1997–2003).
  - Since 1995, refereed international projects for national research councils in Australia, Belgium, Canada, Chile, Germany, Israel, New Zealand, Sweden, Switzerland, United Kingdom, US, and for the European Science Foundation and the European Research Council.
- **Founding activities:**
  - Founding board of the national platform for Dutch mathematics *Platform Wiskunde Nederland* (2009–2010 chair).
  - Co-founder and member of the management team of the national mathematics cluster *Stochastics: Theoretical and Applied Research* ( $\geq 2009$ ).

**Editorial board:**

Journal of Statistical Physics	1994–1996.
Markov Processes and Related Fields	$\geq 1995$ .
Bernoulli	2001–2003.

Journal of Applied Mathematics	2001–2005.
Annals of Probability	2003–2008.
Annales Henri Poincaré	2004–2007.
Indagationes Mathematicae	$\geq$ 2005.
Electronic Journal of Probability	2006–2009.
Electronic Communications in Probability	2006–2008.
Stochastic Processes and Applications	2006–2009.

## Grants:

### • National:

- *Computationally Intensive Methods in Stochastics*  
(1993–1997, jointly with several Dutch colleagues in probability and statistics).
- *Renormalization of Interacting Diffusions*  
(1995–1999).
- *Polymers*  
(1999–2000).
- *Droplet Growth in Fluids*  
(2000–2002).
- *Stochastic Analysis*  
(2001–2003, three projects jointly with Ph. Clément and S. Verduyn Lunel).
- *Gibbs Measures under Random Dynamics*  
(2003–2004, jointly with A. van Enter).
- *Intermittency in a Catalytic Random Medium*  
(2004–2005).
- *Random Copolymers in Random Emulsions*  
(2005–2006).
- *Wulff shape of critical droplets under stochastic dynamics*  
(2006–2007).
- *Random walks on high-dimensional incipient infinite clusters*  
(2009–2010, jointly with R. van der Hofstad).
- *Variational characterization of copolymers near selective interfaces*  
(2010–2012, jointly with V. Sidoravicius).

### • International:

- NATO collaborative research grant  
(1993–1998, jointly with J.-B. Baillon, Ph. Clément and A. Greven).
- Two collaborative research grants by the Netherlands Organisation for Scientific Research and the British Council  
(1995–1996 and 1997–1998, jointly with M. van den Berg).
- Participation in the program *Mathematical and Theoretical Physics*, grant by the Flemish National Science Foundation  
(1995–1999 and 2000–2004).

- Grant within a covenant between Leuven University and Nijmegen University for a project on *Metastability and Gibbs Theory* (1999–2000, jointly with C. Maes).
- Grant by the Dutch and the Hungarian National Science Foundations for bilateral research collaboration on *Large-Scale Behaviour of Multi-Component Stochastic Systems* (2001–2003, jointly with J. van den Berg and M. Keane).
- Chair of the Scientific Programme of the European Science Foundation on *Random Dynamics in Spatially Extended Systems*, with 13 participating European countries (2002–2007).
- Grant by the Dutch and the German National Science Foundations for a Dutch-German Bilateral Research Group on *Mathematics of Random Spatial Models from Physics and Biology* (2003–2009, jointly with E. Baake, A. Bovier, F. Götze, A. Greven and A. Wakolbinger).
- Advanced Grant by the European Research Council, *Variational Approach to Interacting Stochastic Systems* (2011–2015).
- Initiator of German Priority Program on *Probabilistic Structures in Evolution*, funded by the German National Science Foundation (2012–2017, jointly with E. Baake, A. Bovier, A. Greven and A. Wakolbinger).