

Björn Hof

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1 Education and Qualifications

1997-2001 University of Manchester, UK

Ph.D. at the Department of Physics and Astronomy.
Dissertation title: “ A study of Magnetohydrodynamic convection
in liquid gallium.”, Supervisor: Professor Tom Mullin

1996-1997 University of Manchester

MSc in the Department of Physics and Astronomy.
Dissertation title: “The visualisation of convective flow patterns
in water in tilted cells with variable geometry.”, Supervisor: Dr P.G.J. Lucas

1993-1996 Philipps Universität Marburg, Germany

Undergraduate studies in physics. Degree of
”Vordiplom” in 1995.

2 Employment

2011 Declined an offer for a Professorship at the University of Oslo

2007-present **MPI for Dynamics and Self-Organization, Germany**

Leader of an independent Max Planck research group. The group investigates turbulence and complexity in fluid dynamics.
Currently the group consists of 4 postdocs, 5 PhD students, 3 masters students, and 2 technical support staff.

2005-2007 **University of Manchester, UK**

Lecturer (member of staff/ faculty) at the School of Physics & Astronomy.
/ Research Fellowship from the Research Council UK
These highly competitive (about 5% success rate) fellowships were awarded by the UK research council to young talented academincs and provide a reduced teaching load over 5 years
Lecture course given: Introduction to fluid dynamics (4th year physics students).

2003-2005 **Delft University of Technology, The Netherlands**

Research Associate at the Laboratory for Aero- and Hydrodynamics.
The main concern of the project was to identify structures underlying turbulence in pipe flow.

2000-2003 **University of Manchester, UK**

Research Associate at the Manchester Centre for Nonlinear Dynamics.
This project was concerned with the transition threshold to turbulence in pipe flow.

3 Invited Conference Talks and Colloquia

March 2012	NEXT2012 Int. Workshop on Anomalous Statistics, Nara, Japan
January 2012	Colloquium at the Weizmann Institute, Department of Physics, Israel
November 2011	Workshop on Polymers in Fluids, Nice, France
November 2011	Colloquium at the University of Münster, Department of Physics
October 2011	16th Fall Seminar on Nonlinear Dynamics, Bayreuth, Germany
Juli 2011	BIFD 2011 Int. Symposium on Bifurcations and instabilities in fluid dynamics, Barcelona
November 2010	Workshop on Turbulence and Mixing, Eilat, Israel
Juli 2010	Workshop on Flow instabilities and turbulence in viscoelastic fluids, Lorentz Centre Leiden
April 2010	Colloquium at the University of Saarbrücken, Department of Physics
November 2009	Colloquium at the University of Göttingen, Department of Physics
February 2008	Colloquium at the the DLR Göttingen
November 2005	Colloquium at the University of Heidelberg, Department of Physics
September 2005	ITI Turbulence Conference, Bad Zwischenahn, Germany.
November 2004	5th Dresden Fall Seminar for Nonlinear Physics, Dresden, Germany
August 2004	IUTAM meeting, Bristol, UK

4 Teaching Experience

winter 2006	Physics of Fluids, (Lecture course for 4th year students) University of Manchester
winter 2009	Hydrodynamic Stability(Lecture course for Masters students) University of Göttingen, Department of Physics
summer 2009	Turbulence sustaining mechanisms(Seminar for Masters students) University of Göttingen, Department of Physics
winter 2010	Physics of Turbulence(Lecture course for Masters students) University of Göttingen, Department of Physics

5 Awards and other scientific activities

- ERC consolidator grant (2012)
- Dr. Meyer Struckmann Science Price (2011) (price money 15 000 Euros)
- RCUK Fellowship (2005)

- Acted as referee for *Science*, *Physical Review Letters*, *J. Fluid. Mech.*, *Phys. of Fluids*, *J. Fluid Eng.*, *Fluid. Dyn. Res.* *Physical Review E* etc.
- Reviewer for DFG (Deutsche Forschungsgemeinschaft) grant applications. Member of reviewing panel of SFB 1029.
- **Patent application** PCT/EP2010/067959 Eliminating Turbulence in Wall Bounded Flows

6 Funding I.D.

- Royal Society research grant (GBP 15 000) (2006)
- EPSRC grant EP/F017413/1 (GBP 360 000) (2007)
- Max Planck Research Group grant: 2.5 million Euros over 7 years (2008)
- MPG BAR grant (165 kEuro)(2008)
- DFG, Forschergruppe FOR 1182: Wandnahe Transport- und Strukturbildungsprozesse in turbulenten Rayleigh-Bénard-, Taylor-Couette- und Rohrströmungen 230k Euro (includes 1 postdoc salary)(since 2010)
- DFG, SFB 963: Astrophysical Flow Instabilities and Turbulence 360k Euro, including 2 PhD positions (starting in 2012)
- ERC starting/consolidator grant: 1.5 million Euros over 5 years (2012)