

# Martin Robert Bridson

## Curriculum Vitae, September 2012

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### Personal

- Born October 1964, Isle of Man. Married. 3 children

### Current Position

- Whitehead Professor of Pure Mathematics, University of Oxford

### Awards and Distinctions (selected)

- Invited Speaker, International Congress of Mathematicians, Madrid 2006
- Abel Prize Lecturer, 2009
- Royal Society Wolfson Research Merit Award, 2012
- Clay Senior Scholar in Residence (with Lubotzky and Thurston), PCMI, 2012
- EPSRC Senior Fellowship, 2007–12
- London Mathematical Society Whitehead Prize, 1999
- EPSRC Advanced Fellowship, 1997–2002

### Education

- Douglas High School, Isle of Man, 1979-83
- Hertford College, Oxford, 1983-86, BA (1st class)
- Cornell University, New York, 1986-1991 (MS 1988; PhD 1991)

### Professional Experience

- 2002-'07 *Imperial College London*. Professor of Pure Mathematics
- 1994-'01 *University of Oxford*. Tutorial Fellow, Pembroke College; EPSRC Advanced Fellow ('97-'02); Professor of Topology ('99-'01)
- 1992-'96 *Princeton University*. Assistant Professor (on leave '92-'93, '94-'96).
- 1992-'93 *Université de Genève*. Visiting Professor.
- 1991-'92 *Princeton University*. Instructor

### Sabbatical Positions

- Sept 2006–April 2007, *Université de Genève/EPFL (Lausanne)*.
- Sept 1996–Jan 1997, *Princeton University*.

### Research Interests

Geometric and combinatorial group theory, the geometry of non-positively curved spaces, low-dimensional topology

### **Named Lectures**

- *Britton Lectures*, Ontario, September 2012
- *Clay Lecture*, Park City, Utah, June 2012
- *Erwin Schrödinger Lecture*, Vienna, December 2011
- *Abel Prize Lecture*, Oslo, May 2009
- *Marker Lectures*, Penn State University, March 2009
- *Jankowski Memorial Lecture*, Gdansk Poland, June 2008
- *Hawaii Distinguished Lecture Series*, January 2007
- *31st NSF-Arkansas Spring Lecture Series*, Arkansas, April 2006
- *Forder Lecturer*, New Zealand Mathematical Society, April 2005
- *NSF-CBMS Lecture Series*, Albany New York, July 2004
- *Journée de Rham Lecture*, EPFL Lausanne, Switzerland, 2003
- *Plenary Lecture*, AMS Winter Meeting, New Orleans, January 2001

### **Services to UK Mathematics**

- London Math. Soc: Vice-President '04-'06, Council '99-'06, Research Comm.
- RAE Pure Mathematics Panel 2008
- British Parliamentary and Scientific Committee, 2004-07
- EPSRC Strategic Advisory Team, 2002-06; Mathematics College, 2000-present

### **Editorial Boards**

Presently: *Journal of Topology*; *Geometry and Topology*; *Journal of Group Theory*; *LMS Monographs Series*; *Groups, Geometry and Dynamics*.

Formerly: *Topology*, *Bulletin of the American Math. Soc.*, *Quarterly J Math*.

### **Publications**

One monograph (Featured Review 2000k:53038), 85 research articles, two edited volumes

### **Major Grants**

- EPSRC Senior Fellowship, 2007-12
- EPSRC Advanced Fellowship, 1997-2002
- EPSRC grant *Geometry and Analysis in Group Theory* (with C. Drutu), 2010–2013
- EPSRC grant to support a postdoctoral assistant (Lawrence Reeves), 1998–2001
- Principal Investigator, NSF grant *Geometric Group Theory*, 1994–97
- NSF grant *Topology of Manifolds* (with Bill Browder), 1992–94
- FNRS (Swiss) Fellowships, 1992-93 (with Haefliger) and 2006-07 (with de la Harpe)
- Alfred P. Sloane Dissertation Fellowship, 1990-91

### **Meetings Organised (selected)**

AMS-SIAM Summer Research Conference, Mount Holyoke, 1998; AMS Special Sessions, New Orleans 2001, Lubbock 2003; LMS-EPSRC Durham Symposia, 2003, 2011; Oberwolfach, Topological methods in group theory 2006, Geometric Group Theory 2010, 2013; CIRM Marseilles, Groups 2007, GGT 2010, Logic and Groups 2011; Hamilton Geometry Colloquium, Dublin, annually since 2005; ICM Satellites: Groups in Geometry and Topology, Malaga 2006, Goa 2010; Groups, Number Theory & Geometry, Oxford 2009; Bedlewo 2009. Analytic Aspects of Group Theory, Mittag-Leffler Semester, Stockholm, 2012.

**Other Invited Lecture Series 2001-12 (3 lectures or more; selected)**

- Geometry of Manifolds and Groups, Berlin Summer School, 2012
- The Automorphism Groups of Free Groups, Orsay, August 2011
- 100 Years Since Dehn's Decision Problems, Les Diablerets, Switzerland, March 2010
- Groups, Representations and Number Theory, Hanmer Springs NZ, January 2010
- Group Representations: Applications, Geometry and Arithmetic, CIRM Luminy, Nov 2009
- Geometry and Probability on Groups, Orsay, January 2009
- Geometric Group Theory, Göttingen, December 2007
- Technion Lecture Series, Centre for Mathematical Sciences, Haifa, January 2005
- Wasatch Topology Conference, Park City, Utah, June 2003
- Topologie, Oberwolfach, September 2002
- Groups and Geometry, CRM Montreal, July 2001

**Other Invited Lectures 2001-12 (selected)**

- Opening Lecture, PCMI-IAS Research Program, Utah, July 2012
- The Berlin Summer Colloquium, June 2012
- Faces of Geometry, New York, June 2011
- Negative curvature: Geometry, Topology, Dynamics (ICM satellite), Bangalore, Aug 2010
- Opening Lecture of SFB, Groups, Geometry and Actions, Münster, July 2010
- Rigidity in Geometry and Topology, Hausdorff Institute, Bonn, Nov 2009
- The Geometry of Outer Space, Clay Institute, Boston, October 2009
- Geometry and Topology, Münster, June 2009
- First British-Nordic Congress of Mathematicians, Oslo, June 2009
- Edinburgh and London Math Societies Joint Meeting, Edinburgh, Dec 2008.
- Heilbronn Annual Conference, Bristol, Sept 2008.
- Discrete Groups and Geometric Structures, Oostende 2005, 2011; Kortrijk 2008.
- Zürich Colloquium Panorama Series, ETH Zürich 2007
- Groups and Teichmüller theory, MSRI 2007
- 3-manifolds after Perelman, Edinburgh 2006
- LMS Regional Meetings, Newcastle 2004, Leicester 2006
- Asymptotic and Probabilistic Methods in Group Theory, Geneva 2005
- Advances in K- and L-Theory, Edinburgh 2005
- Borsuk 100: Geometric Topology, Bedlewo, Poland 2005
- Freudenthal Centenary Celebration, Utrecht 2005
- Groups, random walks and harmonic analysis, Cortona, Italy 2004
- KOOK International Knot Theory Colloquium, Osaka, Japan 2004
- Geometry in Structural Biology conference, AIM, Palo Alto 2003
- British Mathematical Colloquium (morning speaker), Birmingham 2003
- ICM Satellite, Topology, Xi'an, China 2002
- Texas Topology and Dynamics Conference, Austin 2002
- Lehigh Geometry Conference, Pennsylvania 2001
- Topological Aspects of Group Theory, MSRI 2001
- Cornell Topology Festival, Ithaca, New York 2001

**Doctoral Students:** D. Wise (Princeton); C. Röver, T. Riley, A. Piggott, O. Cotton-Barratt, R. Wade, D. Kielak, B. Kuckuck (Oxford); H. Wilton, M. Tweedale, W. Dison (Imperial).