

Professor Bernard Walter Silverman FRS

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1970–73	Undergraduate, Jesus College, Cambridge
1973–74	Graduate Student, Jesus College, Cambridge
1974–75	Research Student, Statistical Laboratory, Cambridge
1975–77	Research Fellow of Jesus College, Cambridge
1976–77	Calculator Development Manager, Sinclair Radionics Ltd
1977–78	Junior Lecturer in Statistics, Oxford University and
1977–78	Weir Junior Research Fellow of University College, Oxford
1978–80	Lecturer in Statistics, University of Bath
1981–84	Reader in Statistics, University of Bath
1984 & 1992–93	Head of Statistics Group, University of Bath
1984–93	Professor of Statistics, University of Bath
1988–91	Head of School of Mathematical Sciences, University of Bath
1993–2003	Professor of Statistics, University of Bristol
1993–97 & 1998–99	Head of Statistics Group, University of Bristol
1999–2003	Henry Overton Wills Professor of Mathematics, University of Bristol
2000–03	Provost of the Institute for Advanced Studies, University of Bristol
2003–09	Master of St Peter’s College, Oxford
2010–17	Chief Scientific Adviser to the Home Office

I have also held senior/professorial fellowships at the Smith School of Enterprise and the Environment and the Wellcome Trust Centre for Human Genetics at Oxford; and honorary/visiting appointments at the London School of Economics, Lancaster University, Green Templeton College and the University of Nottingham. I now have the status of *Emeritus Professor at the Universities of Oxford and Bristol*.

Degrees and qualifications¹

1973	Bachelor of Arts, Cambridge (Wrangler)
1974	Master of Mathematics ² , Cambridge (with Distinction)
1977	Doctor of Philosophy, Cambridge
1989	Doctor of Science, Cambridge
1993	Chartered Statistician, Royal Statistical Society
2000	Bachelor of Theology, Southampton ³ (First Class Honours)
2014–17	Honorary degrees listed below

Awards and honours

1970	First Prize, International Mathematical Olympiad
1974	Mayhew Prize for Mathematical Tripos Part III, Cambridge
1976	Smith’s Prize, Cambridge University
1984	Royal Statistical Society Guy Medal in Bronze

¹ I also hold the Cambridge MA degree and, by incorporation, the Oxford degrees of MA, DPhil and DSc.

² Degree conferred 2011. Formerly Part III of Mathematical Tripos.

³ Awarded through Southern Theological Education and Training Scheme, Salisbury.

- 1985 Special Invited Paper⁴, Institute of Mathematical Statistics
 1988 Technometrics Special Discussion Paper, American Statistical Association
 1991 Presidents' Award of American Statistical Association, Institute of
 Mathematical Statistics, Biometric Society (ENAR and WNAR) and
 Statistical Society of Canada for 'the outstanding statistician under forty' (the
 COPSS award)
 1993 Fulkerson Lecturer, Cornell University
 1995 Royal Statistical Society Guy Medal in Silver
 1997 Fellow of the Royal Society
 1999 Special Invited Paper⁶, Institute of Mathematical Statistics
 1999 Henri Willem Methorst Medal, International Statistical Institute
 2000 Corcoran Lecturer, Oxford University
 2001 Member of Academia Europæa
 2002 Original Member, Highly Cited Researchers database, ISI^{® 5}
 2003 Honorary Fellow, Jesus College, Cambridge
 2010 Honorary Fellow, St Chad's College, Durham
 2014 Fellow of the Academy of Social Sciences
 2014– Honorary Doctor of Science, St Andrews (2014), Lancaster (2016),
 Bath (2017), Bristol (2017)

Past visiting appointments outside UK⁶

- 1978 & 1979 Department of Statistics, Princeton University
 1979 University of Paris VI
 1980 Sonderforschungsbereich 123, University of Heidelberg
 1981 Mathematics Research Center, University of Wisconsin–Madison
 1981 Department of Statistics, Johns Hopkins University
 1984 Depts of Statistics and Biostatistics, University of Washington
 1984 University of Frankfurt
 1985 University of California, San Diego
 1985 CSIRO Division of Mathematics and Statistics, Canberra, Sydney,
 Melbourne and Perth
 1987–2005 Department of Statistics, Stanford University⁷
 1991 Mathematical Sciences Research Institute, Berkeley
 1997–98 Fellow, Center for Advanced Study in the Behavioral Sciences,
 Stanford, California

Major Professional Activities and Service

Private and Public Sector and Government

UK Government prior to/in addition to appointment as Home Office Chief Scientific Adviser: GM Science Review Panel, 2002–3. Owner's Advisory Board member (non-executive director) Defence Analytical Services Agency (1998–2009). Consultant to the

⁴ These are now termed 'Institute Medallion Lectures'.

⁵ According to a survey published in the Higher Education Guardian, I was the third most cited British mathematician in the period 1981 to 2000. In the field of mathematics, I had the largest number of 'highly-cited' papers (defined as those in the top 1% of cited papers in the field).

⁶ Almost all of these appointments were with some pay and were for periods of 1–3 months in each year shown.

⁷ Frequent visitor (on average for two months every alternate year).

Statistics Commission, 2003. Consultant to UK Government Inquiry (the ‘Lessons Learned’ Inquiry) into Foot and Mouth Epidemic, 2002. Chair, Peer Review Panel on the Project for the Sustainable Development of Heathrow, 2005–06. **Prime Minister’s Task Force on Modern Slavery (2016–)**.

External consultancy and related work: Industrial consultancies in statistics, micro-electronics and mathematics for companies concerned with stockbroking, calculator and computer design, aerospace, oil exploration, advertising, railway signalling. A method designed for oil-well log interpretation was patented by the company involved. Consultancy on statistical aspects of legal cases (especially financial and forensic). Statistical advice to the press. Advice to police in criminal cases. Substantial long-term consultancies with Nuclear Electric, National Audit Office, Ministry of Defence, Agilent Technologies, Mass Spec Analytical Ltd. Radio and television programmes on statistics. Interviews with press and radio.

Learned Societies and Scientific Organisations

Royal Society: FRS (1997). Council Member (2009–10). Working Group on the State of the Nation in the teaching of Science and Mathematics (2007–10; Chair 2008–10). Wolfson Merit Awards Committee (2006–09). Dorothy Hodgkin Fellowships Committee A (1999–2004; chair 2003). Sectional Committee 1 (1998–2001; Chair 2001). Conference Grants Committee (1998–2001). Research Grants Committee A (1997–2000, Chair 1999–2000). Working Group on eligibility for Fellowship (2016–17). Exhibitor, Summer Science Exhibition, 1999. Organizer, Discussion Meetings, 1988 and 1999. **Diversity Committee (2016–)**.

Institute of Mathematical Statistics: President, 2000–01. Fellow (1987). Council (1991–94; 1997–2000; 2007–10.). Special Invited Papers Committee (1986–88). COPSS award nominating committee (Member 1995–97, Chair 1997). Editor, *Annals of Statistics* (2007–09). Many committees and working parties.

Royal Statistical Society: President, 2010. Honorary Secretary (1984–90). Council Member (1982–90). Research Section Committee (1979–82), and numerous other committees and working parties, in particular the 1990 Working Party on Official Statistics. Chair of Research Section (1991–93). Chair of 1995 Publications review and 2011 Honours review.

Other bodies: Founding organizer of European Young Statisticians’ meeting, 1979. Fellow of International Statistical Institute (1986). Bernoulli Society European Regional Committee (member 1986–92, chair 1988–90). Bernoulli Society Council (1999–2003). Patron, Royal Institution Wessex Mathematics Master Classes. Chair, Joint Mathematical Council of the United Kingdom (2003–06). Chair, United Kingdom Mathematics Trust (2004–10). British Academy Policy Centre Advisory Group (2010–13). **Chair of Trustees, United Kingdom Research Integrity Office. (2014–)**. **Board Member, Parliamentary Office of Science and Technology. (2017–)**.

Research Advisory

Editorial: Editor, Oxford University Press Statistical Science Series (1983–87). Associate Editor, *Annals of Statistics* (1982–85), *Journal of the Royal Statistical Society, Series B* (1980–84). Editor of *International Statistical Review* (1991–96). Editor, Chapman and Hall

Monographs on Statistics and Applied Probability (1985–97) and Interdisciplinary Statistics Series (1993–97). Editor, Wiley Statistics Series (1997–2001). Editorial Board, *Inverse Problems* (1998–2000). Editor, *IMS Bulletin* (2002–06). Editor, Cambridge University Press Statistics series (2003–09). Editor, *Annals of Statistics* (2007–09). Founding Editorial Committee, *Annual Reviews of Statistics and Its Application* (2012–17).

UK Research and Funding Councils: SERC Statistics Panel (1990–94). EPSRC Mathematics College (1994–97 & 2000–03). Frequent member and chair of grant awarding panels for EPSRC. Statistics Research Assessment Panel, HEFCE 2001 Research Assessment Exercise. Steering Group, International Review of UK Mathematics, 2003–4. Chair, Subpanel 22 (Statistics) and Member, Panel F (Mathematics), HEFCE Research Assessment Exercise 2008. Emerging Technologies and Industries Steering Group, Technology Strategy Board/Innovate UK (2012–16). Council, Arts and Humanities Research Council (2012–17).

Other national and international bodies: Frequent reviewer for (US) National Science Foundation, NSERC (Canada), Australian Research Council, etc. Scientific Committee, EURANDOM, Netherlands (1997–2003). Scientific Steering Committee, Isaac Newton Institute, 2003–6. Advisory Board, Statistics Department, Carnegie Mellon University (member 2002, academic chair 2006) and National University of Singapore (2010). Convenor, Physical Sciences Panel, Hong Kong Research Assessment Exercise 2014.

Oxford University

Oxford University Committees: Council (2007–10). Educational Policy and Standards Committee (2007–8). Planning and Resource Allocation Committee (2008–10), and member of Budget Subcommittee. Joint Resource Allocation Advisory Board (representing Chair of Conference of Colleges) 2008–09. Supervisory Committee for Permanent Private Halls (2007–10). Chair of Continuing Education Board (2008–10). Nominating committee for external members of Council (2008–10). Frequent review panels (eg Department of Mathematics, Oxford Internet Institute) and appointment panels (for both professorial and senior administrative appointments). ICT strategy steering group (representing Conference of Colleges), 2005–06. Distinctions Committee (merit awards for established professors) 2006–08.

Publications

About 130 published books and research articles. (See my web site www.bernardsilverman.com for link to a full publication list.)