

Short Curriculum Vitae May 28, 2020

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Qualifications: M.A. (Edinburgh, 1975), Ph.D. (UNSW, Australia, 1981).

Current position: Professor of Numerical Analysis (Personal Chair) since 2000.

Publications: 104 scientific papers published or submitted, plus two edited books and a 200 page invited survey article in Acta Numerica 2012. A full list of publications and preprints can be viewed at <http://people.bath.ac.uk/masigg/publications/>
Google Scholar (May 28 2020): h-index 36, i10-index 71
Math Sci Net (May 28 2020): 1469 citations

Postgraduate supervision: 20 successful postgraduate research students since 1987, with 1 current PhD student. 9 of my students are/were financially supported by UK companies.

Postdoctoral supervision: M. Ganesh (92-94), M. Hagger (95-97), L. Stals (97-98), E. Vainikko (99-02), E. Spence (09-11), T. Kim (11-12), S. Gong (2019–).

Major plenary lectures at large conferences: Dundee Numerical Analysis 1989 and 2005; MAFELAP (London) 2006; ENUMath (Leicester) 2011; WAVES (Tunisia) 2013; Domain Decomposition methods: Greenwich, UK, 1999 and Svalbard, Norway, 2017, ANZIAM annual meeting, Australia 2020.

Fellowships at research programmes: Isaac Newton Institute 2003 and 2007; RICAM special semester, Linz, Austria, 2011 Hausdorff Institute Trimester programme, Bonn, 2017, RICAM Special Semester, Linz 2018, ESI Vienna - UQ programme, June 2020 (postponed to 2022).

Selected international workshops: Mathematisches Forschungsinstitut Oberwolfach (16 times); ICMS, Edinburgh (2009, 2010, 2012); Tartu, Estonia, 2008; Leipzig 2008; CTAC Canberra, 2008; Singapore 2009; Crete, 2011; Urumqi (China) 2012, Karlsruhe 2013; Zürich 2014; LMS Durham Symposium 2014; Woudschoten (Netherlands) 2014; Hong Kong 2016; Hausdorff Institute Bonn 2017; Computational Mathematics, Suzhou, China, 2018; UNSW Sydney 2018; CIRM, Luminy, Marseille, 2019; ANU, Canberra, Australia, 2019.

Visiting positions: University of Iowa, University of Kiel, University of New South Wales, University of Queensland, Weierstrass Institute Berlin, IIT Delhi, Max-Planck Institute, Leipzig, Caltech (Los Angeles), Isaac Newton Institute, Cambridge, University of Zürich, Chinese University of Hong Kong, University of Hong Kong, University of Sydney Research Institute.

Service: Elected President of UK and Republic of Ireland Section of Society for Industrial and Applied Mathematics (2017-19), (Vice-President 2001-03). Member of EPSRC Peer Review College (2000-present). External consultant in connection with UK Research Assessment: University of Sussex (2007, 2014), Strathclyde University (2012). External Advisor: CEMAT, Institut Superior Technico, Lisbon (since 2010).

Editorial Boards (current): SIAM Review; Mathematics of Computation (AMS); IMA Journal of Numerical Analysis; Advances in Computational Mathematics; Journal of Computational Mathematics.

Research Grant income: Long history of research grants from EPSRC, Royal Society, London Mathematical Society and British Council. Recent grants include:

- £380K from EPSRC “Fast solvers for frequency-domain wave-scattering problems and applications”, 2019-21
- £356K from EPSRC “Boundary Integral Equation methods for high-frequency scattering”, 2009-2012.
- £97K from EPSRC for “LMS Durham Symposium” awarded to Durham University, I was the Chair of the organising committee, 2010.

Conference organisation: Boundary Integral Methods, Theory and Applications, Bath 2000; Workshop on Computation of Flow and Transport in Heterogeneous Media, Bath 2006; Numerical Analysis: Multiscale Problems, Adaptivity and Complexity Bath, Bath 2007; LMS Durham Symposium on Numerical Analysis of Multiscale Problems, Durham 2010; Special Semester on Multiscale Simulation & Analysis in Energy and the Environment, RICAM Institute, Austria, Autumn 2011 (2 international workshops), ESI, Vienna, workshop on uncertainty quantification in transport and in high frequency scattering, June 2020.

External Examinerships: Heriot-Watt University, Sept 1997 - June 2000, Strathclyde University, Sept 2001 - June 2004, Sussex, Sept 2006 - June 2010 (all undergraduate) and Manchester University/UMIST, 2001-2004 (MSc).

Departmental Service: Head of Mathematics Group, University of Bath, 2001-2004; Head of Department of Mathematical Sciences, University of Bath, 2012-15.