

# CURRICULUM VITAE

## Beatrice Pelloni

**Professor of Mathematics**  
**Department of Mathematics**  
**School of Mathematical and Physical Sciences**  
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### Previous employment

- Professor of Mathematics, University of Reading, 2012-2016
- Reader in Applied Mathematics, University of Reading, 2005-2012
- Lecturer in Applied Mathematics, University of Reading, 2001-2005  
*(maternity break in 2004)*
- Postdoctoral Research Associate, Imperial College, 1997-2001
- Research Associate, IACM-FORTH (Greece), 1991-1996  
*(maternity breaks in 1989-1991, 1993 and 1996)*

### Education

- Ph.D. in Mathematics, Yale University (USA), 1996
- M.Phil. in Mathematics, Yale University (USA), 1988
- B.A. (Laurea) in Mathematics, University of Rome (Italy), 1985

### Distinctions

Olga Taussky-Todd Prize Lecturer at ICIAM 2011  
Elected Fellow of the Institute of Mathematics and its Applications 2012  
LMS Mary Cartwright Lecturer 2019  
Elected Fellow of the Royal Society of Edinburgh 2020

### Main administrative roles

- Deputy Director, International Centre for the Mathematical Sciences (ICMS), Edinburgh, 2022-
- Head, School of Mathematical and Computer Sciences, Heriot-Watt University (2016- 2022)
- Co-Director, EPSRC Centre for Doctoral Training "Mathematics of Planet Earth" (2014-2016)
- Head of Department, Department of Mathematics and Statistics, University of Reading (2010-2014)
- Director of Postgraduate Studies, Department of Mathematics and Statistics, University of Reading (2006-2010)

## Funding

### Research grants

- Maxwell Institute Research Associates, PI (March 2021) - *value*: 374,935 GBP
- Centre for Doctoral Training "MAC-MIGS", co-I (January 2019) - *value*: 5,677,368 GBP
- EPSRC Responsive Mode Research Grant, "Analysis of models for large-scale geophysical flows", PI, March 2017- February 2020 - *value*: 224,008 GBP
- Centre for Doctoral Training "Mathematics of Planet Earth", co-PI (deputy Director) (November 2013) - *value*: 5,677,368 GBP
- Clay Mathematical Institute visiting grant (for Prof N. Joshi) April 2013 - *value*: 6,000 GBP
- EPSRC Responsive Mode Research Grant, "Generalised Fourier transforms and moving boundary value problems", PI, February 2007-January 2011 - *value*: 224,008 GBP
- LMS Visiting Grant (for Prof. M. Melenk), PI, April 2006 - *value*: 850 GBP
- Member of the Oxford node - ERC research network ENIGMA, 2005-2010 - *value*: 2M EU approx
- Leverhulme Research Fellowship, "The spectral analysis of odd-order boundary value problems", October 2005-May 2006 - *value*: 18,539 GBP
- Royal Society Grant for overseas conference participation, September 2003 - *value*: 800 GBP
- Nuffield Foundation Research Grant for new lecturers, 2001-2003 - *value*: 5000 GBP
- EPSRC Responsive Mode Research Grant, named PDRA, Jun1999-Jan2001 (PI: Prof. A.S. Fokas)
- LMS Visiting Grant (for Prof. V. Dougalis), PI, 1998 - *value*: 1,200 GBP
- Marie Curie Fellowship, "Analytical and numerical aspects of the solutions of nonlinear PDEs modelling small amplitude long water waves", European Commission, Jan1997-Dec1998 - *value*: 70,396 GBP

### Funding for conferences and advanced courses

- INI Thematic 2-month Programme *Mathematics of the fluid earth*, (co-organised with M.Cullen, V. Lucarini, S. Vaienti) October-December 2013
- LMS-Clay Instructional Course "Modern nonlinear PDE methods in fluid dynamics" (organised with E. Varvaruca), July 2013
- Distinguished speakers funds for IMA conference on *Nonlinearity and coherent structures*, July 2011
- EPSRC conference grant - International Centre for Mathematical Sciences workshop on "Boundary value problems" May 2012 (main organiser)
- OxPDE Centre Grant for a short course on "Universality and critical behaviour in Hamiltonian PDEs", (co-organised with P.A. Clarkson, M. Mazzocco), October 2010
- EPSRC-LMS Instructional Course Grant, "Nonlinear Waves" (organiser), July 2005

## Peer review, editorial and other activities

- Panelist, Panel B10 (Mathematics) - UK Research Excellence Framework (REF) 2020
- Member of the Royal Society's Newton International Fellowships Panel, 2015-2017
- Member of the EPSRC Interview Panel for Mathematics Fellowships, January 2014
- Independent expert, NSF Applied Partial Differential Equations Evaluation Panel, 2012
- Independent expert, FP6, European Community, Research networks, 2005-2007
- Member of the EPSRC College of Peer Review, 2003-present

- Member of the EPSRC Panel for Mathematics Advanced, Senior and EURYI Fellowships 2005 and 2006 Exercise
  - Independent expert, FP6, European Community, Marie Curie actions, Excellence actions and NEST actions panel member, 2003-2004
  - Independent expert, FP5, European Commission evaluation panel for Marie Curie fellowships, 2000-2002
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- Editor, Dynamics and Statistics of the Climate System: An Interdisciplinary Journal (2015-2018)
  - Associate Editor, Nonlinearity (2015-)
  - Editor, Proceedings Royal Society A (2015-2017)
  - Editor-in-Chief, Proc Royal Soc Edinburgh A: Mathematics (2016-2020)
  - Associate Editor, SIAM Review, (2012-)
  - Editor, Journal of Nonlinear Mathematical Physics, (2004-)
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- Elected vice-President, European Maths Society (2022-2024)
  - President, SIAM-SIAG activity group "Nonlinear waves and coherent structure" (2019-2021)
  - Elected member, Executive Committee Council of the European Maths Society (2017-2021)
  - Chair, Women in Mathematics committee of the European Maths Society (2016-2017)
  - Member of the Strategic Advisory Team (SAT) for the Mathematics Programme of EPSRC (2015-2017)
  - Elected member-at large, Council of the LMS (2013-14 and 2015-16)
  - Panelist, Association for Women in Mathematics discussion panel, International Conference on Industrial and Applied Mathematics, Vancouver (July 2011)
  - Chair, panel on "Women in Mathematics", International Conference of Women Mathematicians, 2011, Hyderabad (India)
  - Member of the LMS Women in Mathematics committee (2010-2015)
  - Chair, Research meetings committee, LMS (2015-)
  - Member of Review Panel of the Department of Mathematics, Bristol University (2015)

### **Research associates:**

- ★ Dimitrios Pinotsis (2008-2011)
- ★ Mark Wilkinson (2017-2019)

### **Research students:**

- ★ Théo Lavier (MAC-MIGS CDT - from September 2022, co-supervised with D. Bourne)
- ★ George Farmakis (MIGSAA CDT - from September 2018, co-supervised with L. Boulton)
- ★ Charlie Egan (MIGSAA CDT - from September 2018, co-supervised with D. Bourne)
- ★ Stefania Lisai (MIGSAA CDT - from September 2017, co-supervised with J. Vanneste)
- ★ K. Kozłowska, start October 2013 (EPSRC DTG studentship, co-supervised with J Virtanen)
- ★ N. Werning, start September 2011 (EPSRC-CASE studentship - suspended)
- ★ D.K. Gilbert, PhD March 2013 (EPSRC-CASE studentship)
- ★ D.A. Smith, PhD July 2011 (EPSRC project studentship)
- ★ D. Chilton, PhD December 2006 (EPSRC DTG studentship)

### **Teaching and related roles**

- External PhD committee member, University of Washington, 2020-2022
- PhD External examiner, Imperial College, May 2019
- PhD External examiner, University of Kent, December 2018

- PhD External examiner, University of Cambridge, December 2017
- External examiner for Undergraduate Programmes in Applied Mathematics, Department of Mathematics, University of Bath, 2006-2009
- PhD External examiner, University of Cambridge, December 2006
- Fellow of the Higher Education Academy (UK), 2001

### Selected recent and forthcoming lectures

- Plenary speaker, ESF conference on "Completely Integrable Systems and Applications" Erwin Schrödinger Institute, Vienna, July 2011
- Olga Taussky-Todd prize and lecture, ICIAM, Vancouver, July 2011
- Invited tutorial lecturer, SIAM SIAG conference on Nonlinear Waves and Coherent Structures, Seattle (USA), June 2012 • Main speaker, AIM workshop on "Nonhomogeneous boundary-value problems", Palo Alto (USA), May 2013 • Invited participant, MSRI workshop "Fluid Mechanics, Hamiltonian Dynamics, and Numerical Aspects of Optimal Transportation", October 2013
- Invited speaker, "NumAn2014" Chania, Crete, September 2014 • Keynote speaker, "Computational complex analysis for free surface flows", UCL, April 2015 • Invited speaker, 17th EWM general meeting, Cortona (Italy) August 2015
- Mathematics School Colloquium speaker, Birmingham, March 2016
- Plenary speaker, SANUM 2016, Stellenbosch (South Africa), March 2016
- Plenary speaker, Durham Symposium "Geometric and algebraic aspects of Integrability", July 2016
- Plenary speaker, SIAM-IMA Cambridge Student Chapter conference, Cambridge, May 2017
- Plenary speaker, Scottish PDE Colloquium, Dundee, June 2017
- Plenary speaker, IMA Conference on Nonlinearity and Coherent Structures, Norwich, June 2017
- Plenary speaker, International conference on numerical and applied PDEs, Athens, May 2018
- Plenary speaker, BAMC 2019, University of Bath, April 2019
- Mary Cartwright Lecturer, LMS, April 2019
- Invited speaker, "Integrability and Randomness in Mathematical Physics", CIRM, June 2019.
- Invited speaker, "Complex analysis toolbox" workshop, INI Cambridge, September 2019
- Invited participant, "Applicable resurgent asymptotics: towards a universal theory", Mar-Jun 2021 & Sept-Dec 2022, Newton Institute for the Mathematical Sciences, Cambridge (UK)
- Invited participant, "Dispersive hydrodynamics: mathematics, simulation and experiments, with applications in nonlinear waves", July-Dec 2022, Newton Institute for the Mathematical Sciences, Cambridge (UK)
- Invited speaker, OPSFA 2022, Montreal (delivered online), June 2022
- Invited participant, "Mathematical aspects of the physics with non-self-adjoint operators", Banff Research station, July 2022
- Invited speaker, Fokas 70th birthday conference, Crete, July 2022
- Invited speaker, "The charm of integrability" conference, Bristol Sep 2022
- Invited speaker, conference on *Optimal Transport theory and its applications to physics*, Les Houches (France), March 2023
- Invited speaker, Boeing Applied Mathematics Colloquium, University of Washington, May 2023
- Invited speaker, workshop on *Spectral Geometry and Applications*, Quebec City, May 2023