

Curriculum Vitae

Prof. Paul C. Bressloff

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Department of Mathematics

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London SW7 2AZ, UK

Education

- 1988** Ph.D, Department of Mathematics, King's College, London University
Title of thesis: *Quantum field theory of superstrings in the light-cone gauge*
- 1982** BA, First Class Honors, Physics, Oxford University.

Professional Experience

- 2023-** Chair in Applied Mathematics and Stochastic Processes, Imperial College London
- 2009-2011** Professor of Applied Mathematics, University of Oxford
- 2005-2023** Adjunct Professor of Ophthalmology, University of Utah.
- 2001-2023** Professor of Mathematics, Department of Mathematics, University of Utah.
- 1997-2000** Professor of Applied Mathematics, Department of Mathematical Sciences, Loughborough University.
- 1996-1997** Reader in Applied Mathematics, Department of Mathematical Sciences, Loughborough University.
- 1993-1995** Lecturer in Applied Mathematics, Department of Mathematical Sciences, Loughborough University, UK
- 1988-1993** Research Scientist, GEC-Marconi Ltd., Hirst Research Centre, London, UK

Additional Positions

- 2014-2017** International Visiting Chair, INRIA, Sophia-Antipolis
- 1999-2000** Visiting Professor, Department of Mathematics, University of Chicago

Awards

- 2017** Distinguished Scholarly and Creative Researcher Award, University of Utah
- 2016** Elected a Fellow of the Society for Industrial and Applied Mathematics
- 2012** Elected a Fellow of the Institute of Mathematics and its Applications
- 2009** Royal Society Wolfson Merit Award
- 2000** Elected a Fellow of the Institute of Physics.
- 1999** Royal Society Leverhulme Trust Research Professorship

Grants

- 2018-2023** NSF (CO-PI): *Functional properties and computational function of top-down feedback in early visual cortex* (\$1.3 million)
- 2016-2020** NSF (PI): *Laminar Neural Field Models of Visual Cortex* (\$400,000)
- 2014-2017** NSF (CO-PI): *Computation of visual context information in the primary visual cortex* (\$600,000)
- 2012-2017** NSF-RTG grant (CO-PI): *Cross-disciplinary research training in mathematical biology* (\$2,500,000).
- 2012-2015** NSF DMS (PI). *Stochastic Neural Field Theory*. (\$350,000).
- 2010-2015** BBSRC LOLA (CO-PI). *Engineering Human Neural Networks* (£3,000,000).
- 2010-2011** John Fell Award (PI). *Mathematical Modelling of Protein Receptor Transport and its Role in Synaptic Plasticity*
- 2010-2012** OCCAM Research Grant (PI). *Mathematical modelling of mRNA transport and its role in learning and memory*
- 2008-2012** NSF DMS (PI). *Mathematical models of protein receptor trafficking in dendrites*. (\$270,000).
- 2006** NSF DMS 0515725 (PI): *Gordon Research Conference on Theoretical Biology and Biomathematics* (\$24,000)
- 2004-2009** NSF-RTG grant (CO-PI): *Cross-disciplinary research training in mathematical biology* (\$2,500,000).

2005-2008 NSF DMS 0515725 (PI): *Neural oscillations and waves induced by local network inhomogeneities* (\$232,122)

2002-2007 NSF-IGERT grant (CO-PI): *Cross-disciplinary research training in mathematical biology* (\$2,942,000).

2002-2005 NSF DMS 0209824 (PI): *Spatio-temporal dynamics and multiple feature maps in primary visual cortex* (\$109, 260).

1997-2001 EPSRC research grant in applied nonlinear mathematics (PI): *Neuronal population dynamics: coordination of locomotion in a simple model vertebrate* (£118, 360).

1997 Royal Society travel grant

1997 EPSRC conference grant (£18,000).

1995-1998 EPSRC research grant in mathematical biology (PI): *Nonlinear dynamics of the pupil light reflex* (£30,000).

Publications

270 refereed journal articles

3 books and 1 edited book.

Google Scholar: 12400 citations, h-index = 57

Postdocs

James Macluarin (2017-2018) [Assistant Professor, NJIT]
Sean Lawley (2014-2017) [Associate Professor, University of Utah]
Victor Burlakov (2010-2012) [Senior Research Associate, Oxford]
Jay Newby (2010-2012)
Berton Earnshaw (2007-2009)
Lars Schwabe (2005-2006) [Assistant Professor, University of Rostock]
Stephen Coombes (1996-1998). [Full Professor, University of Nottingham]

Ph.D students

Ryan Schumm. Ph. D 2023 [Research Scientist, NSA]
Hyunjoong Kim. Ph. D 2020. [Assistant Professor University of Cincinnati]
Patrick Murphy. Ph. D 2020 [Assistant Professor, San Jose State University]
Bridget Fan. Ph. D 2019 [Research Scientist].
Ethan Levien. Ph. D 2018 [Assistant Professor, Dartmouth]
Sam Carroll. Ph. D 2018
Heather Brooks. Ph. D 2018 [Assistant Professor, Harvey Mudd]
Barghav Karamched. Ph. D 2017 [Assistant Professor, Florida State University]
Bin Lin. Ph. D 2017 [Assistant Professor, Clarkson University]
Matthew Webber. Ph. D 2014. [Works in the City of London]
Yi Ming Lai. Ph. D 2013 [Research Associate, University of Nottingham]
Jay Newby. Ph. D 2010 [Associate Professor, University of Alberta]
Zackary Kilpatrick. Ph. D 2010 [Associate Professor, University of Colorado Boulder]
William Nesse Ph. D. (2008). [Associate Professor (Lecturer), University of Utah]
Berton Earnshaw. Ph. D 2007 [Software engineer, CEO]
Andrew Oster. Ph.D 2006 [Associate Professor, West Washington University]
Stefanos Folias. Ph.D 2005 [Associate Professor, University of Alaska]
Matthew James. Ph. D 2002
Barry de Souza. Ph. D 2000.
Peter N. Roper. Ph. D: 1998 [Software engineer].