

Andrew James Wood

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Date of Birth 23rd January 1976 **Nationality** British

Employment

- April 2007 -** RCUK Fellow in Biological Complexity. Joint appointment between Maths and Biology to the York Centre for Complex Systems Analysis housed in the Department of Biology.
- Oct 2004 - March 2007** PDRA on the EPSRC funded NANIA research cluster. Employed at the School of Physics, University of Edinburgh.
- Jan 2004 - Oct 2004** PDRA on the EPSRC rolling grant to Rudolf Peierls Institute for Theoretical Physics, Oxford.
- Jan 2002 - Dec 2003** Royal Commission for Exhibition of 1851 Research Fellow, held at Rudolf Peierls Institute for Theoretical Physics, Oxford.

Education

- Sept 1998 - Jan 2002** Imperial College, London. Doctorate thesis entitled 'Fluctuation Effects at Filling Transitions' under the tutelage of Prof. Andrew O. Parry. Awarded PhD (University of London) and DIC (Diploma of Imperial College) in February 2002.

Sept 1994 - June 1998 Emmanuel College, University of Cambridge.
Certificate of Advanced Studies in Applied Mathematics (Part III) with Honours (1998). First class BA (MA, June 2000) in Pure and Applied Mathematics (June 1997).

Publications

- Evolving the selfish herd: emergence of distinct aggregating strategies in an individual-based model. A.J.Wood and G.J.Ackland, Proceedings of the Royal Society B: Biological Sciences. **274** 1618, 1637-1642 (2007) doi: 10.1098/rspb.2007.0306
- Mutation of albedo and growth response produces oscillations in a spatial Daisyworld. A. J. Wood, G. J. Ackland and T. M. Lenton. Journal of Theoretical Biology **242** 188-198 (2006).
- Equilibrium statistical mechanics of a grain boundary . D.B. Abraham, Ville Mustonen and A.J.Wood, Physical Review E **71** 036106 (2005).
- Relaxation dynamics of a system with a grain boundary. D.B. Abraham, Ville Mustonen and A.J.Wood, Physical Review E **70** 066138 (2005)
- Wetting at a grain boundary. D.B. Abraham, Ville Mustonen and A.J.Wood, Physical Review Letters **93** 076101 (2004).
- Solid-on-Solid solution for wetting at a grain boundary. D.B. Abraham, Ville Mustonen and A.J.Wood, Journal of Physics A: Mathematical and General **37** L233 (2004).
- Exact Results for Wetting and Filling on a Triangular Lattice. D.B. Abraham, Ville Mustonen and A.J.Wood, International Journal of Thermophysics **25** 1051 (2003).
- Triangular lattice solution for filling in a wedge. D.B. Abraham, Ville Mustonen and A.J.Wood. Europhys. Lett. **63** 408 (2003).
- Drumhead model of wetting, filling and wedge covariance. D.B. Abraham, A.O.Parry and A.J.Wood. Europhys. Lett. **60** 106 (2002).
- Wedge covariance for two-dimensional filling and wetting. A.O.Parry, M.J.Greenall and A.J.Wood. Journal of Physics: Condensed Matter **14** 1169 (2002).
- Universal phase boundary shifts for corner wetting and filling. A.O.Parry, A.J.Wood, A. Drzewinski and Enrico Carlon. Physical Review Letters. **87** 196103 (2001).
- Interfacial fluctuation effects at 3D wedge-wetting. A.O.Parry, A.J.Wood and C.Rascon, Fluid Phase Equilibria **185** 139 (2001).
- Wedge filling, cone filling and the strong fluctuation regime. A.O.Parry, A.J.Wood and C.Rascon, Journal of Physics: Condensed Matter, Special Edition "Liquids at interfaces" **13** 4591 (2001).
- A disorder point for filling transitions in 1+1 dimensions. A.J.Wood and A.O.Parry, Journal of Physics A: Mathematical and General **34** L5 (2001).

- Two dimensional filling in ordered and disordered systems. A.O.Parry, A.J.Wood and C.Rascon. Journal of Physics: Condensed Matter **12** 7671 (2000).
- Critical effects at 3D wedge-wetting. A.O.Parry, C.Rascon and A.J.Wood. Physical Review Letters **85**, 345 (2000).
- Universality for 2D wedge-wetting. A.O.Parry, C.Rascon and A.J.Wood. Physical Review Letters **83**, 5535 (1999).

In preparation or submission

- Daisyworld: A Review. A.J.Wood, G. J. Ackland, J. G. Dyke, H. T. P. Williams and T. M. Lenton. Reviews of Modern Geophysics (invited, accepted).
- A fitness based approach to Daisyworld. A.J.Wood and J. B. Coe. Journal of Theoretical Biology (accepted).

Research Grants

StoMP, Stochastic Modelling of Prokaryotic Gene Networks. A BBSRC network grant under Mathematical Tools for Systems Biology. **Co-I. Awarded.**

MIND Program. University of York application to the EPSRC Bridging the Gaps program. **Co-I.** Under consideration.