AGNIESZKA MARIA WERPACHOWSKA Founder and CEO of Averisera Ltd

Personal details E-mail: agnes@averisera.uk

E-mail: agnes@averisera.uk Mobile: +44 (0) 785 035 0152 Citizenship: British

PAST WORK 2013-2014 Mathematical modeller and C++ developer; Lead mathematical modeller in joint project with OECD UK Health Forum (London-based NGO) • Statistical research and quantitative modelling in epidemiology, designing mathematical models and their numerical implementation, building hardware infrastructure for computationally intensive simulations 2012-2013 Postdoctoral research associate Department of Physics and Astronomy, University College London (UCL) • Research in non-equilibrium quantum thermodynamics and open quantum systems 2011-2011 **Independent visiting researcher**, Department of Physics and Astronomy, UCL • Research in disorder and biomolecular complex systems Education and Qualifications 2005-2011 **PhD** with distinction (spintronics and nanotechnology), Institute of Physics, Polish Academy of Sciences (PAS) 2003-2005 **MSc** (condensed matter physics), College of Science at Institute of Physics, PAS, Warsaw, Poland 2000-2003 **BSc** (multidisciplinary studies in mathematics, physics and chemistry; specialty: computer modelling of phenomena), College of Science at scientific institutes of PAS, Warsaw, Poland AWARDS

- PhD awarded with distinction, 2011
- IUPAP Young Author Best Paper Award, International Conference on the Physics of Semiconductors, Rio de Janeiro, Brazil, 2008
- Scholarship of the President of Polish Academy of Sciences for doctoral students, 2007-2009 (terminated upon leaving Poland)
- Recommended by UCL for an individual EPSRC fellowship based on my research as visitor, 2012

PRESENTATIONS AND PUBLICATIONS

21 conference talks, poster presentations, grant reports and seminars at top international science events and institutions

- 1. Werpachowska, A. and R. Werpachowski, *Microsimulations of demographic changes in England* and Wales under various EU referendum scenarios, arXiv:1606.04636 (under review)
- 2. Werpachowska, A. and R. Werpachowski, Cross-sectional Markov model for trend analysis of observed discrete distributions of population characteristics, arXiv:1510.06787 (under review)

- Werpachowska, A., Reduced operator approximation for open quantum systems, Open Syst. Inf. Dyn. 22, 1550008 (2015)
- Werpachowska, A., Comment on "Excitons in molecular aggregates with Lévy-type disorder: Anomalous localization and exchange broadening of optical spectra", Phys. Rev. Lett. 109, 259701 (2012)
- Werpachowska, A., Exact and approximate methods of calculating the sum of states for noninteracting classical and quantum particles occupying a finite number of modes, Phys. Rev. E 84, 041125 (2011)
- 6. Werpachowska, A. Löwdin calculus for multiband Hamiltonians, arXiv:1101.5775 (2011)
- Werpachowska, A. and T. Dietl, Theory of spin waves in ferromagnetic (Ga,Mn)As, Phys. Rev. B 82, 085204 (2010)
- 8. Werpachowska, A. and T. Dietl, *Theory of spin waves in ferromagnetic (Ga,Mn)As*, AIP Conference Proceedings, Vol. 1399, 663 (2010)
- 9. Werpachowska, A. and T. Dietl, Effect of inversion asymmetry on the anomalous Hall effect in ferromagnetic (Ga,Mn)As, Phys. Rev. B 81, 155205 (2010)
- 10. Chiba, D., A. Werpachowska et al., Anomalous Hall Effect in Field-Effect Structures of (Ga, Mn)As, Phys. Rev. Lett. 104, 106601 (2010)
- Werpachowska, A. and Z. Wilamowski, The RKKY coupling in diluted magnetic semiconductors, Mater. Sci.-Poland 24, 675 (2006)
- Wilamowski, Z. and A. Werpachowska, Spintronics in semiconductors, Mater. Sci.-Poland 24, 803 (2006)
- 13. Werpachowska, A., *Electron billiards* in Polish popular scientific magazine *Delta* (2004)

Other

Referee for International Journal of Microsimulation, IOP Journal of Physics: Condensed Matter and Physical Review Letters