

## Curriculum Vitae: Professor Henry P. Wynn

### Degrees

- 1967: BA Honours Mathematics University of Oxford  
1970: PhD Mathematical Statistics Imperial College, University of London

### Positions held since graduation

- 2010-present: London School of Economics, Emeritus Professor  
2003-2010: Professor of Statistics, London School of Economics  
2003-2006: Head of the Department of Statistics, London School of Economics  
2000-2005 Scientific Co-Director EURANDOM, Eindhoven (part-time)  
1995-2003: Professor of Industrial Statistics. Director of the Risk Initiative and Statistical Consultancy Unit (RISCU), University of Warwick  
1990-1995: Co-Director, Engineering Design and Quality Centre, City University, London  
1983–1995: Dean of School of Mathematics, Actuarial Science and Statistics, City University, London  
1985-1995: Professor of Mathematical Statistics, City University, London  
1983-1985: Head of Statistics Section, Mathematics Department, Imperial College, London  
1979-1985: Reader in Statistics, Mathematics Department, Imperial College, London  
1975-1976: (on leave) Assistant Professor, University of California, Berkeley  
1973-1979: Lecturer in Statistics, Imperial College, London  
1972-1973: Statistician, Government Statistical Service, Inland Revenue Department  
1970-1972: Research Fellow, Statistics, University of Kent at Canterbury

### Selected publications

(Over 200 papers, several monographs, edited volumes)

1. Ko, Jordan and Wynn, Henry P. (2016) The algebraic method in quadrature for uncertainty quantification. *SIAM/ASA Journal on Uncertainty Quantification*, 4 (1). 331-357.
2. Saenz-de-Cabezón, Eduardo and Wynn, Henry P. (2015) Hilbert functions in design for reliability. *IEEE Transactions on Reliability*, 64 (1). 83-93. ISSN 0018-9529
3. Saenz-de-Cabezón, E. and Wynn, H. P. (2014) Measuring the robustness of a network using minimal vertex covers. *Mathematics and Computers in Simulation*, 104. 82-94.
4. Hainy, M. and Müller, W.G and Wynn, Henry P. (2014) Learning functions and approximate Bayesian computation design: ABCD. *Entropy*, 16 (8). 4353-4374.
5. Oldfield, M.J., Atherton, M.A., Bates, R.A., Perry, M.A. and Wynn, H.P. (2010) Modal validation of a cantilever-plate bimorph actuator illustrating sensitivity to 3D characterisation. *Journal of Electroceramics*, 25 (1). 45-55. ISSN 1385-3449
6. Pronzato, L., Wynn, H. P. and Zhigljavsky, A.A. (2009) A dynamical system analysis of the optimal s-step gradient algorithm. In : *Optimal Design and Related Areas in Statistics*. Springer: Optimization and related areas: 28, 39-80.
7. Perry, M.A., Atherton, M.A., Bates, M.A., Shen, Y. and Wynn, H.P. (2008) Bond Graph Based Sensitivity and Uncertainty Analysis. *Modelling for Micro-Scale Multiphysics Robust Engineering Design*. J. Franklin Inst. 345, 282-292.

8. Wynn, H.P and Ograjensek, I. (2010) Is statistics becoming the number one discipline for business and industry? *Quality and Reliability Engineering International*, 26 (8). 789-793.

### **Recent research grants**

EU-FP7: CELSIUS. ENER/FP7/314441 *Combined Efficient Large Scale Integrated Urban Systems*. April 2013 - March 2017 £317,336

Leverhulme Trust. *Advances in Algebraic Statistics*. Emeritus Fellowship. July 2011 - September 2012. £ 11,800

Research Councils UK. *MUCM I, II: Managing Uncertainty in Complex models*. Contract no. EP/H007377/1. October 2006 - September 2012. Partner. £295,210.

EPSRC.  *$\mu$ -RED: Micro-scale Robust Engineering Design Engineering*. Contract no. GR/S63502/01. July 2004 - June 2007. £ 144,633.

EU-FP6: *HIPCON: Holistic Integrated Process Control*. February 2003 - January 2006 Partner/contractor. £346,667.

### **Invited lectures (2016)**

1. April 2016. SIAM Conference on Uncertainty Quantification. Experimental design principles in quadrature for Uncertainty Quantification
2. May 2016. Plenary Speaker. Spring Research Conference, Chicago. Title: "Causation and Uncertainty in Robust Engineering Design"
3. June 2016. Plenary Speaker. International Society for Business and Industrial Statistics. Title "Smooth Supersaturated Models: SSM"
4. June 2016. Invited Speaker. Workshop on Model Oriented Data Analysis, Dortmund. Title: "Random versus controlled experiments: a principle".
5. June 2016 Opening Plenary Speaker. 4<sup>th</sup> International Conference on the Interface between Statistics and Engineering. Title: "Uncertainty and Robustness in Engineer Design".

### **Professional activities**

1. EPSRC Critical Mass panel (2004)
2. Member EPSRC Mathematics Prioritisation Panel (2005)
3. Member, Steering Group and Advisory Group, EU Network of Excellence: PASCAL (2004-2006)
4. Chairman, Scientific Advisory Board, Norwegian statistical research centre, SFI: Statistics for Innovation (2006-2015)
5. Member, Scientific Advisory Board, Canadian National Institute on Complex Data Structures: NCPDS (2005-present)

### **Awards, prizes, etc.**

1. Guy Medal in Silver, Royal Statistical Society, 1982
2. Member of the Institute of Mathematical Statistics, 1988
3. Member of the International Statistical Institute, 1985
4. Honorary Fellow, Institute of Actuaries, 1999. Founding
5. President: ENBIS: European Network for Business and Industrial Statistics (2000-2001)
6. Box Medal, ENBIS, 2011