

***CURRICULUM VITAE***



***Jane Margot Binner***

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## **1. PERSONAL DETAILS**

**Name** Jane Margot BINNER  
**Nationality** British  
**Marital status** Married  
**Current position** Chair in Finance, Department of Finance.  
Birmingham Business School, University of Birmingham  
E-mail: [j.m.binner@bham.ac.uk](mailto:j.m.binner@bham.ac.uk). Tel: 0121 414 6642.

### **Qualifications**

#### **Postgraduate**

1986-1990 University of Leeds; PhD in Multivariate Time Series Analysis (part time). Thesis title: The Construction, Interpretation and Analysis of the Divisia Monetary Aggregate in the UK.  
1985-1986 University of Leeds; MSc in Economic Forecasting.  
1984-1985 University of California at Los Angeles; Extension courses in the Graduate School of Management and the Economics Department.  
1983-1984 University of Leeds; PGCE Economics/Mathematics.

#### **Undergraduate**

1980-1983 University of Leeds; BA Hons Economics.

### **Previous appointments**

2010 – 2013 Chair in Finance & Head of Accounting and Finance Division, University of Sheffield.  
2005 – 2010 Reader in Economics, Aston University.  
2003 – 2005 Senior Lecturer in Economics, Aston University.  
1995 – 2003 Senior Lecturer in Finance, Nottingham Trent University.  
1993 – 1995 Lecturer, School of Mathematics & Computing, University of Derby.  
1992 – 1993 Open University Tutor in Statistics.  
1991 – 1993 Business Analyst, CCN Decision Systems (now Experian), Nottingham.  
1990 - 1991 Financial Consultant, Merchant Investors Group, Nottingham.  
1989 - 1990 Teaching Fellow, School of Management and Finance, University of Nottingham.  
1987 – 1989 Computer Officer (part time), School of Business and Economic Studies, University of Leeds.

## 2. RESEARCH

### SUMMARY

- My research centres on the application of advanced multivariate techniques to a range of data types, particularly the application of state of the art techniques such as big data analytics and artificial intelligence methods. The work, which is multidisciplinary in nature involving both international and national collaborators, is concerned with commercial applications and more academic approaches. As such, it sits at the interface between economics, finance, industry and government.
- I have published 53 journal papers with 1 in press and a further 7 are currently under review in top ranking journals in my field or are in the process of being written. I have also co-edited two books with MT Belongia and a book of seminal papers with the world's leading monetary economist and Nobel Prize nominee (2001), Professor William Barnett. I also edited the '*Corporate Health Check Report and Macroeconomic Commentary*' for Experian, a quarterly bulletin assessing UK business performance and economic prospects, from 1998 – 2004.
- I have been successful in attracting ~£500k in research funding as Principal Investigator and ~£600k as Co-Investigator, with sources including EPSRC, the Leverhulme Trust, Eurostat, the Home Office, the Swedish Research Council, the National Science Foundation in Taiwan and Boots The Chemists. Included in these figures is a grant of £208k that was awarded by the EPSRC Digital Economy programme as part of a ~£1M multidisciplinary project for work on applying new advances in digital technology to model public perceptions of safety in the UK; my role was to improve allocation of scarce financial resources and to evaluate the performance of the new digital technology we developed. I was also awarded ~£90k by the EPSRC Global Uncertainties programme as part of an ~£850k multidisciplinary programme aimed at using co-operative game theory models for weak signal detection to enhance evacuations in times of need. Applications worth £23k and £58k have been awarded by the Leverhulme Trust and the Swedish Research Council respectively for work to improve the measurement and pricing of liquidity risk for greater explanatory power in asset pricing models. A joint application with Lancaster University for ~£440k was submitted to the EPSRC, supported by the Bank of England, to create new models of economic confidence and consumer perceptions of financial markets using advances in digital technology. I have submitted 2 bids to the Alan Turing ONS & HSBC Data Science Institute valued at ~ £200,000 to construct a new resilience indicator model for weak signal detection and I have also led a bid for a £3.68M from the EPSRC to lead a new multidisciplinary centre for "Innovative Business behavioural finance models to construct leading indicators of consumer spending and the business cycle. I also submitted a bid to the Leverhulme Trust totalling \$66,900 for a Visiting professorship entitled, "Measuring Risk, Liquidity and Revealed Preference Tests for Optimal Currency Areas".
- My research has received international recognition and is achieving significant impact.
  - I have organised a conference called "postbrexit risk: uncertainty and covid challenges" held online in Birmingham Business School on 20 – 22 July 2021. My research collaborators and I are currently in the process of publishing two high quality journals as proceedings volumes, viz. *European Journal of Finance* and *Economic Modelling*.
  - The Bank of England hosted a conference in May 2017 entitled "*Financial Services Indices, Liquidity and Economic Activity*" on behalf of our Financial Resilience

research cluster which attracted over 100 submissions from the world's leading financial analysts, central bankers, industrialists and academics from all over the world to debate the key issues currently surrounding the Bank's mission to promote financial stability in line with the Bank of England's mission. Sponsored by the Federal Reserve Bank of Dallas, the Center for Financial Stability and the Center for Research in Contemporary Finance, Fordham University, USA, the Money, Macro, Finance Research Group, the Federal Reserve Bank of Dallas and the Birmingham Business School amongst others. The conference provided an international forum for rigorous theoretical and empirical macro and micro economic and financial analysis of the causes, management, resolution and preventions of financial crises, including banking, securities markets, credit card payments and exchange rate shocks. Interaction among researchers, policy-makers and practitioners successfully identified potential risks to financial stability and developed means for preventing, mitigating or managing these risks both within and across countries. The guest editors of the proceedings volume gathered together 12 of the top papers presented for a special double issue volume of the *Journal of Financial Stability*.

- The evidence provided within my EPSRC Next Generation Resilience programme, EPSRC 'Dfuse', was presented to Parliament at the House of Commons Science and Technology Select Committee on "real time data analytics and social media".
  - My EPSRC research designed to bring recent advances in the digital economy to business and industry, "VoiceYourView: Making Public Places Safer", was chosen by David Willets, MP, as the demonstration model for the "Science in the New Parliament" event held at the House of Commons in October 2010. Our prototype models have also been formally integrated into lesson plans within schools to help realise educational objectives and to allow students to reflect on how safe they feel in their local area and have also been integrated into the Derry District Policing Partnerships (DDPP's) survey of satisfaction of policing services evaluation practices.
  - Results on the performance of a new 'wavelet-based' measure of core inflation, presented whilst serving as a Visiting Scholar in St Louis, were presented at the January 2007 Federal Market Open Committee (FOMC) meeting for use in influencing monetary policy in the USA.
  - I was invited by monetary policymakers at the Bank of England to comment on the proposed changes to UK Divisia monetary aggregate construction in Spring 2005.
  - My econometric model determining the factors that influence the propensity to file for divorce in England and Wales was used by the Law Commission Department in reforming legislation on divorce law.
  - My Dynamic Game Theory Model for the Retail Sector model was incorporated into the strategic investment decision-making processes of Boots the Chemists in evaluating whether or not to exit the Well-Being, Health and Fitness market.
- I have experience working with a number of public and private enterprises, particularly in the area of game theory as a strategic tool for investment decision making. These include Experian, the Association of Chief Police Officers, the Northern Ireland Policing Board, Derry District Policing Partnership, the Cabinet Office, Wright Patterson Air force Base and Boots the Chemists, amongst others.

- I am a Fellow of the Institute for Nonlinear Dynamical Inference (INDI) and worked on joint research programmes with the Universities of Kansas, Wisconsin and South Alabama in the USA; National Chengchi University in Taiwan and Lund University in Sweden. I have new research collaborations with the Reserve Bank of India and the Central Bank of Paraguay. I am a member of the Board of Trustees for an American journal and have been invited to present papers and serve on the scientific committees for a number of international conferences, including presenting a Keynote lecture.
- In terms of Leadership, I have served as Impact Lead for the Department of Finance in Birmingham Business School and as the Director of the Financial Resilience Cluster which spans multidisciplinary research interests in Finance across the University of Birmingham. This involved me in leading the organisation of national and international conferences and workshops, liaising with government, business and industry both nationally and internationally and organising guest speakers. I have previously served as Head of the Accounting and Financial Management Division at the University of Sheffield. This role involved me in all aspects of management of teaching, research and administration. I was responsible for recruitment, promotion and allocating mentors for teaching, research and staff performance reviews. I was the subject leader of Finance at Sheffield Management School, which involved me in dealing with all aspects of quality in the provision of Finance programmes. I organised and lead a series of four “Grant Writing Workshops” during 2011/12 leading successfully to more junior academics in the Sheffield Management School capturing external research grant income. I was awarded the Best Paper prize in 2010 by the Business & Economics Society International (B&ESI) in the USA for my paper entitled “Financial Innovation in the UK” and I have received several invitations to publish papers in journals and present them at learned societies and conferences. I have served as the Principal Investigator on a number of research programmes and, as Research Convenor for the Economics & Strategy Group (ESG) at Aston University, I was responsible for writing ESG’s RAE submission in 2008. In May 2017 I was the principal organiser of the Bank of England conference entitled ‘*Financial Services Indices, Liquidity and Economic Activity*’ yielding a special double issue volume of the high impact *Journal of Financial Stability*. In July 2007 I was the principal organiser of the Aston – Lund International Conference on ‘*Measurement Error*’ and I published a selection of the papers in special issues of both the *Journal of Business and Economic Statistics* and *Advances in Econometrics*. Previously, I produced a special issue of the latter from a selection of the best papers presented in a special session that I organised at the 2003 *International Multiconference in Computer Science and Engineering* in the USA. Currently In 2021 I organised a conference entitled, “Post brexit finance and coronavirus challenges” to include special issue volumes of *European Journal of Finance* and *Economic Modelling*.
- I have served as the Athena Swan lead in the Department of Finance in the Birmingham Business School
- I am currently mentoring colleagues in the Department of Finance and have previously supervised 8 research / visiting fellows and 7 PhD students to successful completion.

## **PUBLICATIONS**

### **Editorships of and Contributions to Books**

1. BINNER, JM, FERRARIO MA, FRANKOVA K, GARTON L, LAWLOR-WRIGHT T, OSMOND J, RAINEY M, SIMM W, WHITTLE J, WOODCOCK A. Digital Innovation with

- VoiceYourView: Contributions to Knowledge and Lessons Learned, in *Design in the Digital World*. Morgan & Claypool Publishers, Forthcoming.
2. **Invited Paper** ANDERSON, RG, BINNER JM, HAGSTROMER B AND NILSSON, B. Liquidity: Systematic Liquidity, Commonality, and High Frequency Trading, in Lee, D and Gregoriou, G., in *High Frequency Trading a Practical Approach*, pp 197 – 214. Elsevier 2015, ISBN 978-0-12-802205-4.
  3. KELLY, LJ, BINNER JM, CHANG, CL AND TSENG, YH. Monetary policy in Taiwan: the implications of liquidity, in Lee, D and Gregoriou G., *Handbook of Asian Finance: Volume 1 and Volume 2*, Elsevier, 2014, 221-237.
  4. PRESTON, J, BINNER JM, BRANICKI L. AND GALLA T. *City Evacuations: An Interdisciplinary Approach*, 2014, ISBN 978-3-662-43876-3 ISBN 978-3-662-43877-0 (eBook) DOI 10.1007/978-3-662-43877-0 Springer, Heidelberg, New York, Dordrecht London. Library of Congress Control Number: 2014946190.
  5. SCHMIDT VA AND BINNER JM. A Semi-automated Display for Geotagged Text, in *City Evacuations: An Interdisciplinary Approach*, pp 107 – 117. Springer 2014, Heidelberg, New York, Dordrecht London. Library of Congress Control Number: 2014946190.
  6. FRY J, GALLA T AND BINNER JM. Quantitative decision-making rules for the next generation of smarter evacuations, in *City Evacuations: An Interdisciplinary Approach*, pp 63 – 89. Springer 2014, Heidelberg, New York, Dordrecht London. Library of Congress Control Number: 2014946190.
  7. BELONGIA MT AND BINNER JM. (eds) *Money, Measurement and Computation*. Palgrave Press Ltd, Basingstoke, UK. 2006. ISBN 1-4039-4793-7.
  8. BINNER JM AND ELGER T. Introduction, in *Money, Measurement and Computation*, Palgrave Press Ltd, Basingstoke, UK. 2006. ISBN 1-4039-4793-7.
  9. BARNETT WA AND BINNER JM. (eds), *Functional Structure and Approximation in Econometrics*. Elsevier Science B.V., Amsterdam, The Netherlands. 2004. ISBN 0-444-50861-9.
  10. BINNER JM, KENDALL, G. AND CHEN, SH., Applications of Artificial Intelligence in Economics and Finance, in *Advances in Econometrics*, 19, Thomas B. Fomby and R. Carter Hill Emerald Publishing, 2004, ISSN: 0731- 9053, ISBN 978-0-7623-1150-7, eISBN:978-1-84950-303-7
  11. KENDALL G, BINNER JM AND GAZELY AM. Evolutionary strategies vs. neural networks: an inflation forecasting experiment, in *Computational Intelligence in Economics and Finance*, Edited by Shu-Heng Chen and Paul P. Wang. Springer-Verlag, Berlin, Germany. 2004, ISBN: 3-540-44098-4.
  12. KENDALL G, BINNER JM AND GAZELY AM. Evolutionary strategies: a new macroeconomic policy tool? in *Modelling and Control of Economic Systems*. Edited by Reinhard Neck, Elsevier, Amsterdam, The Netherlands. 2003, ISBN: 0-08-043858-X.
  13. BELONGIA MT AND BINNER JM. (eds) *Divisia Monetary Aggregates; Theory and Practice*. Macmillan Press Ltd, Basingstoke, UK. 2000. ISBN 0-333-64744-0.
  14. DRAKE L, CHRYSTAL KA AND BINNER JM. Weighted monetary aggregates in the UK, Published in *Divisia Monetary Aggregates; Theory and Practice*. Eds. Belongia MT and Binner JM, Macmillan Press Ltd., Basingstoke, UK. 2000. pp 47–78. ISBN 0-333-64744-0.

## **Technical Reports**

1. PRESTON, J, BRANICKI, L, BINNER JM, Real time social media analysis in emergency management: Written Evidence to Parliament. Published by the House of Commons Science and Technology Select Committee, November 2014.  
<http://www.parliament.uk/documents/commons-committees/science-technology/Formal-Minutes-2014-15.pdf>

## **Journal Publications**

1. MOLINAS L.A., BINNER J.M. AND TONG M., “Do Divisia monetary aggregates help forecast exchange rates in a negative interest rate environment?” *European Journal of Finance*, 2022, DOI. <https://doi.org/10.1080/1351847X.2022.2124120>
2. PEKAR V., NAJAFI, H., BINNER J.M., SWANSON, R., RICKARD, C. AND FRY J., Voting intentions on social media and political opinion polls, *Government Information Quarterly*, Volume 39, Issue 4, 2022, [101658].
3. DE OLIVEIRA A.M.B., BINNER J.M., MANDAL A., KELLY L.J. AND POWER G.J., Using GAM functions and Markov-Switching models in an evaluation framework to assess countries’ performance in controlling the COVID-19 pandemic, 2021, *BMC Public Health* 21, 2173. <https://doi.org/10.1186/s12889-021-11891-6>.
4. PEKAR V., BINNER J.M., NAJAFI, H., SCHMIDT V.A., AND HALE C., Early detection of heterogeneous disaster events using social media, 2020, *Journal of the Association for Information Science and Technology*, **71**, 1, 43-54.
5. BINNER J.M., ANDERSON R.G AND DUCA J.V., *Financial Services Indices Liquidity and Economic Activity*, 2019, **42**, pp. 1-142.
6. BISSOONDEEAL, R.K., BINNER, J.M. AND KAROGLU, M., Structural changes and monetary aggregates in the United Kingdom, 2019, *Journal of Financial Stability*, **42**, 100 – 107.
7. BINNER J.M., CIARDIELLO F. FLETCHER L.R. AND KOLOKOLTSOV. V.N., On pure-strategy Nash equilibria in a Duopolistic Market Share Model *International Game Theory Review*. 2019, **21**, [2], 1940007
8. ANDERSON R.G AND BINNER J.M. A survey of core inflation. *Federal Reserve Bank of St Louis Review*. In Press.
9. BINNER, JM, CHAUDRY SM, KELLY LJ. AND SWOFFORD, JL., Risky monetary aggregates for the USA and UK, 2018, *Journal of International Money and Finance*. **89**, 127 – 138.
10. BINNER, J.M., CHAUDHRY S.M, MULLINEUX A.W. AND SWOFFORD J.L., “Scotland as an Optimal Currency Area”, 2018, *Scottish Journal of Political Economy*, **65**, (4), 315 – 327.
11. BINNER J.M, and KELLY L.J., Modelling money shocks in a small open economy: The case of Taiwan, *The Manchester School of Economic and Social Studies*, 2017, **85**, 104 -120.
12. FRY J AND BINNER JM. Elementary modelling and behavioural analysis for emergency evacuations using social media. *European Journal of Operational Research*. 2016, **249**, 3, 1014 – 1023.

13. SIMM, WA, FERRARIO, M.A, WHITTLE J.N, DAVENPORT R, BINNER J.M, FRANKOVA K, GARTON L, WOODCOCK A, LAWLOR-WRIGHT T AND BUSAYAWAN L. On the role of public consultation tools in public space design: A case study. 2016. *Interacting with Computers*, **3**, 05, 273 – 292.
14. FEKETE A., TZAVELLA K., ARMAS J., BINNER J.M., GARSHAGEN M., GUIPONNI C., MOJTAHED V., PETTITA M., SCHNEIDER BAUER S. AND SERRA D., Critical data source: Tool or even infrastructure? Challenges of Geographic Information Systems and Remote Sensing for Disaster Risk Governance. *International Journal of Geo-Information*. 2015, **4**(4), 1848-1869; doi:[10.3390/ijgi4041848](https://doi.org/10.3390/ijgi4041848)
15. BUSAYAWAN A, WHITTLE J..N, BINNER JM AND LAWLOR WRIGHT, T. Better service design for greater civic engagement, in *The Design Journal*, Bloomsbury Publishing, 2015, **18**(1), DOI: 10.2752/175630615X14135446523224
16. BINNER, J.M, FLETCHER, L.R., KOLOKOLTSOV, V.N. AND CIARDIELLO. F. External pressure on alliances: What does prisoners' dilemma reveal? *Games*, December 2013, **4**, 4, 754-775.
17. PRESTON, J, BINNER J.M., BRANICKI, L, FERRARIO, M.A AND KOLOKITHA M. Multiple attacks on transport infrastructure: an inter-disciplinary exploration of the impact of social networking technologies upon real time information sharing, response and recovery. *Journal of Homeland Security*. Online 2012.
18. ANDERSON R.G, BINNER J.M AND SCHMIDT V.A., Connectionist-based rules describing the pass-through of individual goods prices into trend inflation in the US. *Economics Letters*, 2012, **117**, 174-177.
19. WLAZLOWSKI S, GIULIETTI M, BINNER J.M AND MILAS C. Measurement error in oil price transmission analysis. *Journal of Business and Economic Statistics*. 2012, **30:2**, 165-172.
20. WLAZLOWSKI S, BINNER J.M, GIULIETTI M, JOSEPH N AND NILSSON B. New York mark-ups on petroleum products. *Manchester School (Economic and Social Studies)*, 2012, **80**, 145-171.
21. BINNER J.M, CHEN S..H, MULLINEUX AW AND SWOFFORD J.L., Do the ASEAN countries form a common currency area? *Journal of International Money and Finance*, 2011, **30**, 1429-1435.
22. BISSOONDEEAL R.K, JONES, B.E, BINNER J.M AND MULLINEUX A.W., Household-sector money demand for the UK. *Manchester School (Economic and Social Studies)*, 2010, **78**, 90-113.
23. BINNER J.M, TINO P, TEPPER J.A, ANDERSON R.G, JONES B.E AND KENDALL G. Does money matter in inflation forecasting? *Physica A, Statistical Mechanics and its Applications*, 2010, **389**, 4793-4808. ISSN 0378-4371.
24. BINNER J.M, ELGER T, NILSSON B AND TEPPER JA. Inflation forecasting, relative price variability and skewness. *Applied Economics Letters*., 2010, **17**, [6], 593-596. ISSN 1466-4291.
25. BINNER J.M, BISSOONDEEAL R.K, ELGER C.T., JONES B.E AND MULLINEUX A.W., Admissible monetary aggregates for the Euro area. *Journal of International Money and Finance*, 2009, **28**, 99-114.



26. WLAZLOWSKI S, BINNER J.M., GIULIETTI M, AND MILAS C. Price dynamics in the European petroleum market. *Energy Economics*, 2009, **31**, 99-108.
27. HAGSTROMER B AND BINNER J.M., Stock portfolio selection with full-scale optimization and differential evolution. *Applied Financial Economics*, 2009, **19**, 1559-1571.
28. BISSOONDEEAL R.K, BINNER J.M AND ELGER T., Monetary models of exchange rate and sweep programs. *Applied Financial Economics*, 2009, **19**, [14], 1117-1129.
29. BINNER J.M AND SCHMIDT V.A., Analysing MSI rules for the USA extracted from a feedforward neural network. *Advances in Econometrics*, 2009, **24**, 281-294.
30. **Winner of Best Paper Prize** BINNER J.M., Financial innovation in the UK: new tier-adjusted household sector monetary services indexes. *Global Business and Economics Review*, 2009, **11**, 44-64.
31. BINNER J.M, KENDALL G. AND GAZELY A.M., Evolved vs. trained neural networks: An evaluation of U.K. risky money; a comparison of two neural network approaches. *Global Business and Economics Review*, 2009, **11**, 1-18.
32. BISSOONDEEAL R.K, BINNER J.M. BHURUTH M, GAZELY A.M, AND MOOTANAH V., Forecasting exchange rates with linear and nonlinear models. *Global Business and Economics Review*, 2008, **10**, 414-429.
33. HAGSTROMER B, ANDERSON R.G, BINNER J.M, ELGER T AND NILSSON B. Portfolio Choice via Mean-Variance Analysis and Utility Maximization: Comparison and Assessment. *Manchester School (Economic & Social Studies)*, 2008, **76**, 134-156.
34. ELGER T, JONES B.E, EDGERTON D. AND BINNER J.M., A note on the optimal level of monetary aggregation in the U.K. *Macroeconomic Dynamics*, 2008, **12**, 117-131.
35. BINNER J.M, GAZELY A.M and KENDALL G. Evaluating the performance of a EuroDivisia index using artificial intelligence techniques. *International Journal of Automation and Computing*, 2008, **5**, 58-62.
36. BINNER J.M, ELGER T, NILSSON B AND TEPPER J.A., Predictable nonlinearities in U.S. inflation. *Economics Letters*, 2006, **93**, [3], 323-328.
37. DERBAN, W.K., BINNER, J.M. AND MULLINEUX, A.W., Reducing default rates in community development finance initiatives. *Small Business Economics*, 2005, **25**, 319-332.
38. BINNER J.M, BISSOONDEEAL R.K AND MULLINEUX A.W., A Composite Leading Indicator of the Inflation Cycle for the Euro Area. *Applied Economics*, 2005, **37**, 1257-1266.
39. BINNER J.M, BISSOONDEEAL R.K, ELGER T, GAZELY A.M AND MULLINEUX A.W. A comparison of linear forecasting models and neural networks; An application to Euroinflation and EuroDivisia. *Applied Economics*, 2005, **37**, 665-680.
40. BINNER J.M, ELGER T, NILSSON B AND TEPPER J.A., Tools for non-linear time series forecasting in Economics. *Advances in Econometrics*, 2004, **19**, 71-92.
41. SCHMIDT V. AND BINNER J.M., Searching for Divisia / inflation relationships with the aggregate feedforward network. *Advances in Econometrics*, 2004, **19**, 225-241.

42. BINNER J.M, KENDALL G. AND GAZELY A.M., Evolutionary strategies vs. neural networks: New evidence from Taiwan on the Divisia index debate. *Advances in Econometrics*, 2004, **19**, 127-144.
43. ELGER T AND BINNER J.M., The UK household sector demand for risky money. *Berkeley Electronic Press, Topics in Macroeconomics Series*, 2004, **4**, [1], <http://www.bepress.com/bejm/topics/vol4/iss1/art3>.
44. **Invited Paper** BINNER J.M, GAZELY A.M., CHEN S.H. AND CHIE B.T., Financial innovation and Divisia money in Taiwan: Comparative evidence from neural networks and vector error correction forecasting models. *Contemporary Economic Policy*, 2004, **22**, [2], 213-224.
45. BINNER J.M AND WATTAM S. A new composite leading indicator of inflation for the UK; a Kalman filter approach. *Global Business and Economics Review*, 2003, **5**, [2], 242-264.
46. **Invited Paper** BINNER J.M, GAZELY A.M AND CHEN S.H., Financial innovation in Taiwan; An application of neural networks to the broad monetary aggregates. *European Journal of Finance*, 2002, **8**, [2], 238-247.
47. LEE C.B., FLETCHER L.R, BINNER J.M AND MURPHY W.D., Market share in a post-entry game. *Journal of the Operational Research Society*, 2001, **52**, [5], 503-510.
48. BINNER J.M AND DNES A.W., Marriage, divorce and legal change: New evidence from England and Wales. *Economic Inquiry*, 2001, **39**, [2], 298-306.
49. GAZELY A.M AND BINNER J.M., A neural network approach to the Divisia index debate: Evidence from three countries, *Applied Economics*, 2000, **32**, 1607-1615.
50. BINNER J.M AND GAZELY A.M., A neural network approach to inflation forecasting: The case of Italy. *Global Business & Economics Review*, 1999, **1**, [1], 76-92.
51. BINNER J.M, FIELDING A AND MULLINEUX A.W., Divisia money in a composite leading indicator of inflation. *Applied Economics*, 1999, **31**, 1021-1031.
52. BHATTACHARYA R AND BINNER J.M., The shocking nature of output fluctuations in some EU countries. *Applied Economics*, 1998, **30**, 1101-1125.
53. GAZELY A.M AND BINNER J.M., Better forecasts of future inflation? The neural network approach. *Internet Journal of Financial Information Systems*, 1998, <http://www.shu.ac.uk/schools/fs/fisjnl/vol1996/pprs1997/fisc97.htm>
54. LEE C.B, MURPHY W.D, FLETCHER LR AND BINNER J.M., Dynamic entry deterrence in the UK pathology services market. *European Journal of Operational Research*, 1998, **105**, 296-307.

### **Revise & Resubmit /Submitted/In Progress**

55. BINNER J.M, CHAUDHRY, S.M, SWOFFORD, J.L. AND TONG M., UK or the Eurozone: Which Common Currency Area Can Work for Northern Ireland After Brexit? *European Journal of Finance*.
56. BISSOONDEEAL, R.K, BINNER J.M. AND KARAGLOU M., Share price volatility and money demand in the UK and Euro Area, *European Journal of Finance*,

57. DUAN R. BINNER J.M., SWOFFORD J.L. AND MANDAL A., A new green money for the USA, *Journal of Money, Credit and Banking*.
58. BHADURY S., TAYLOR K., BINNER J.M. AND MANDAL A., Gender in the Business Cycle. *Economic Journal*.
59. BINNER J.M, TEPPER J.A., AND KELLY L.J., On the robustness of data driven MRNN alternatives to DSGEs *Physica A, Statistical Mechanics and its Applications*.
60. BINNER J.M, TEPPER J.A. AND KELLY L.J., Was the Swiss central bank correct in abandoning monetary targeting? *Economic Bulletin*
61. MOLINAS L., BINNER J.M., TINO, P. AND HART. M., Forecasting exchange rates using GMLVQ Methodology, *International Journal of Forecasting*.

### **Conference Publications**

1. PEKAR, V, AND BINNER JM., Forecasting Consumer Spending from Purchase Intentions Expressed on Social Media, Proceedings of the *8<sup>th</sup> Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*, 92-101, Copenhagen, Denmark, September 2017. Association for Computational Linguistics.
2. PEKAR, V, BINNER JM, NAJAFI H, SCHMIDT VA AND HALE C., Selecting Classification Features for Detection of Mass Emergencies on Social Media. Proc, *18<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'16)*, July 2016, Las Vegas, USA, Vol. II, CSREA Press, Editor HR Arabia, 2016, 520 - 526. ISBN 1-60132-199-6, 1-601132-200-3 (1-60132-201-1)
3. PEKAR, V, BINNER JM., NAJAFI H, AND HALE C., Detecting Mass Emergency Events on Social Media: One Classification Problem or Many? In Proc. of the *12<sup>th</sup> International Conference on Data Mining. (DMAI'16)* Las Vegas, USA. CSREA Press, Editor HR Arabia, 2016,
4. CIARDIELLO, F, BINNER JM AND SCHMIDT VA., Contagion Threat on a Social Network: A Graphical Approach, *Proc, 2012 International Conference on Security and Management, (ICSAM)* pp115 – 121. ISBN 1-60132-231-3, CSREA Press, Editor HR Arabia.
5. FERRARIO, MA, SIMM, W, WHITTLE W, RAYSON P, BERRIDGE D, TERZI M AND BINNER JM. Understanding Actionable Knowledge in Social Media: BBC Question Time and Twitter, a Case Study. *Proc, 2012 Sixth International AAI Conference on Weblogs and Social Media (ICWSM 2012)* <http://www.icwsm.org/2012/program/accepted-papers/#posters>.
6. BINNER, JM, FERRARIO MA, FRANKOVA K, GARTON L, LAWLOR-WRIGHT T, OSMOND J, RAINEY M, SIMM W, WHITTLE J, WOODCOCK A. Digital Innovation with VoiceYourView: Contributions to Knowledge and Lessons Learned. EPSRC Digital Economy, all hands meeting 2011, Newcastle, UK.
7. SCHMIDT VA AND BINNER JM. A Semi-automated Display for Geotagged Text. Proc. *13<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'11)*, July 2011, Las Vegas, USA, Vol. II,

- CSREA Press, Editor HR Arabia, 2011, 520 – 526. ISBN 1-60132-199-6, 1-601132-200-3 (1-60132-201-1)
8. BUSAYAWAN A., CHAN, Y, BINNER JM, WHITTLE J, GARTON L AND FRANKOVA K. VoiceYourView: An Inclusive Approach to Civic Engagement, *Proc. INCLUDE conference 2011*, [http://include11.kinetixevents.co.uk/4dcqi/prog?sess-13569249142394906052011140321&operation=detail&paper\\_id=440](http://include11.kinetixevents.co.uk/4dcqi/prog?sess-13569249142394906052011140321&operation=detail&paper_id=440) ISBN 978-1-907342-29-5
  9. BINNER, JM, FLETCHER LR AND KOLOKOLTSOV, V.N., Existence and Uniqueness of Nash Equilibria in a Simple Lanchester Model of Customer Churn. *Proceedings EPSRC Symposium Workshop on Game Theory for Finance, Social and Biological Sciences*, University of Warwick, 2010, Dynamics in Games and Economics
  10. WHITTLE J, SIMM, W, FERRARIO, M, FRANKOVA, K, GARTON, L, WOODCOCK, A, NASA B, BINNER JM AND ARIYATUM, A. VoiceYourView: Collecting real-time feedback on the design of public spaces, *Proc. 12<sup>th</sup> Int. Conf. on Ubiquitous Computing (UbiComp)*, November 2010, New York, USA, 2010, 41-50. ISBN 978-1-60558-843-8.
  11. SCHMIDT VA, BINNER JM AND ANDERSON RG. Connectionist-based rules describing the pass-through of individual goods prices into trend inflation in the US. *Proc. 12<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'10)*, July 2010, Las Vegas, USA, Vol. II, CSREA Press, Editor HR Arabia, 2010, 318-324.
  12. BINNER JM, CHEN QB AND KENDALL G. Evolving weights for a new U.K. Divisia. *Proc. 7<sup>th</sup> Int. Conf. on Computational Intelligence on Artificial Intelligence (CIEF 2008)*, Tao Yuan, Taiwan, December 2008, World Scientific Publishing Co, Editor SH Chen, 2008, 179-185.
  13. SCHMIDT VA AND BINNER JM. A connectionist approach to producing rules describing monthly UK Divisia data. *Proc. 10<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'08)*, July 2008, Las Vegas, USA. Volume II, CSREA Press, Editor HR Arabia, 2008, 468-474. ISBN 1-60132-071-X.
  14. BINNER JM, CHEN QB AND KENDALL, G. Studying the effect that a linear transformation has on the time-series prediction ability of an evolutionary neural network. *Proc. 6<sup>th</sup> Int. Conf. on Computational Intelligence in Economics & Finance (CIEF 2007)*, Salt Lake City, USA, July 2007, World Scientific Publishing Co., 2007, 592-601. ISBN 978-981-270-967-7.
  15. SCHMIDT VA AND BINNER JM. Analysing MSI Rules for the USA extracted from a feedforward neural network. *Proc. 9<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'07)*, July 2007, Salt Lake City, USA. Volume I, CSREA Press, Editor HR Arabia, 2007, 265-276. ISBN 1-60132-023-X.
  16. BINNER JM, JONES B, KENDALL G, TEPPER JA AND TINO P. Does money matter? An artificial intelligence approach. *Proc. 5<sup>th</sup> Int. Conf. on Computational Intelligence in Economics and Finance (CIEF 2006)*, October 2006, Kaohsiung City, Taiwan, ROC, 2006, 72-75. ISBN 978-90-78677-01-7.
  17. SCHMIDT VA AND BINNER JM. Analysing Divisia rules for the UK extracted from a feedforward neural network. *Proc. 8<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'06)*, July 2006, Salt Lake City, USA. Volume I, CSREA Press, Editor HR Arabia, 2006, 127-133. ISBN 1-932415-96-3.
  18. SCHMIDT VA AND BINNER JM. Examining the internal complexity of a neural network trained with Divisia component data. *Proc. 7<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'05)*,

- July 2005, Salt Lake City, USA. Volume I, CSREA Press, Editor HR Arabnia and R Joshua, 2005, 867-870. ISBN 1-932415-66-1.
19. GAZELY AM AND BINNER JM. A comparison of the forecasting performance of a constructed monetary index with component data using neural networks. *Proc. 7<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'05)*, July 2005, Salt Lake City, USA. Volume I, CSREA Press, Editor HR Arabnia and R Joshua, 2005. ISBN 1-932415-66-1.
  20. BINNER JM, GAZELY AM AND KENDALL G. Evaluating the performance of a EuroDivisia index using artificial intelligence techniques. *4<sup>th</sup> Int. Conf. on Computational Intelligence in Economics and Finance (CIEF 2005)*, July 2005, Salt Lake City, USA. 2005, 871-874.
  21. BINNER JM, GAZELY AM AND ELGER T. Dynamic neural network based inflation forecasts for the UK. *Global Business and Economics Review Anthology*, September 2004. ISBN 0-9659831-7-X.
  22. GAZELY AM AND BINNER JM. Adoption of the Harmonised Index of Consumer Prices: a Neural Network Approach., *Int. Conf. on Computational Intelligence for Modelling Control and Automation (CIMCA)*, July 2004, Gold Coast, Australia. 2004.
  23. BINNER JM, BISSOONDEEAL RK, ELGER T, GAZELY AM AND MULLINEUX AW. Neural Networks for Macroeconomic Analysis: Forecasting Euro Inflation. *Int. Conf. on Computational Intelligence for Modelling Control and Automation (CIMCA)*, July 2004, Gold Coast, Australia. 2004.
  24. BINNER JM, FLETCHER LR, KOLOKOLTSOV V, LUND A AND WHYSALL P. Optimal investment for market share in a duopoly. *Proc. of the ECOMOD Conf. on Policy Modelling*, Istanbul, July 2003.
  25. SCHMIDT VA AND BINNER JM. Determining Divisia rules using the aggregate feedforward neural network. *Proc. 5<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'03)*, June 2003, Las Vegas, USA. Volume I, CSREA Press, Editor HR Arabnia, R Joshua and M Youngsong, 2003, 68-74.
  26. KENDALL G, BINNER JM AND GAZELY AM. Evolutionary strategies: A new macroeconomic policy tool? *Proc. IFAC Symposium on Modelling and Control of Economic Systems 2002*, Klagenfurt, Austria, April 2003. In *Modelling and Control of Economic Systems*, Elsevier, 2003, 377-382. ISBN 0 08 043858 X.
  27. BINNER JM AND KENDALL G. Evolving neural networks using evolutionary strategies. *Proc. 4<sup>th</sup> Int. Conf. on Artificial Intelligence (ICAI'02)*, June 2002, Las Vegas, USA. Volume I, CSREA Press, Editor HR Arabnia, R Joshua and M Youngsong, 2005, 884-889. ISBN 1-892512-27-0.
  28. BINNER JM AND DNES AW. Explaining wives petitioning for divorce; a VAR-VECM analysis. *Proc. European Association of Law and Economics*, Vienna, September 2001.
  29. KENDALL G, BINNER JM AND GAZELY AM. Evolutionary strategies vs. neural networks: An inflation forecasting experiment. *Proc. 3<sup>rd</sup> Int. Conf. on Artificial Intelligence (ICAI'01)*, June 2001, Las Vegas, USA. CSREA Press, Editor HR Arabnia, 2001, 609-615. ISBN 1-892512-79-3.
  30. BINNER JM, GAZELY AM AND CHEN SH. An application of neural networks to the Divisia index debate; the case of Taiwan. *Proc. 1<sup>st</sup> Int. Conf. on Artificial Intelligence (ICAI'99)*, June 1999, Las Vegas, USA. Volume II, CSREA Press, Editor HR Arabnia, 1999, 409-415. ISBN 1-892512-17-3.

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31. BINNER JM AND DNES AW. Measuring the relationship between divorce and marriage in England and Wales; a vector autoregressive approach. *Proc. 2<sup>nd</sup> Annual Conf. of the Int. Society for New Institutional Economics*, Paris, France, September 1998.
32. GAZELY AM AND BINNER JM. A neural network application to the money stock mismeasurement problem: A comparison of evidence from the USA and UK. *Proc. Recent Advances in Soft Computing Conf.*, Leicester, UK, 1998, 12-22.
33. BINNER JM AND GAZELY AM. A neural network approach to inflation forecasting. Recent evidence for the USA and UK. *Proc. Soc. for Computational Economics Symposium on Computation in Economics, Finance and Engineering: Economic Systems*, Cambridge, 1998, Chapter 3.
34. LEE CB, MURPHY WD, FLETCHER LR AND BINNER JM. Strategic entry deterrence in the UK pathology services market. *Proc. 21st Meeting of Operational Research Applied to Health Services (ORAHs)*, Managing Health Care under Resource Constraints, Maastricht, The Netherlands, 1995, 89-97.

### **Working Papers**

1. ANDERSON RG, BINNER JM, HAGSTROMER B AND NILSSON B., Does commonality in illiquidity matter to investors? *Federal Reserve Bank of St Louis Working Paper Series*, 2013-020A
2. ANDERSON RG, BINNER JM AND SCHMIDT V. Connectionist based rules describing the pass-through of individual goods prices into trend inflation in the United States. *Federal Reserve Bank of St Louis Working Paper Series*, 2011-007A.
3. BINNER JM, TINO P, TEPPER JA, ANDERSON RG, JONES BE AND KENDALL G. Does money matter in inflation forecasting? *Federal Reserve Bank of St Louis Working Paper Series*, 2009-030B and also *Aston Working Paper Series*, 2009, RP0918, ISBN No: 978-1-85449-758-1.
4. HAGSTROMER B, ANDERSON RG, BINNER JM, AND NILSSON B. Dynamics in systematic liquidity. *Federal Reserve Bank of St Louis Working Paper Series*, 2009-025.
5. BINNER JM, CHEN QB AND KENDALL G. Evolving weights for a new U.K. Divisia. *Aston Working Paper Series*, 2008, RP0818, ISBN: 978-1-85449-739-0.
6. WLAZLOWSKI S, BINNER JM, GIULIETTI M AND MILAS C. Smooth transition models in price transition. *Aston Working Paper Series*, 2008, RP0804, ISBN: 9781-85449-726-0.
7. HAGSTROMER B, BINNER JM, ANDERSON RG, ELGER T AND NILSSON B. Mean variance vs. full scale optimisation: broad evidence for the U.K. *Aston Working Paper Series*, 2007, RP0711, ISBN: 9781-85449-701-7.
8. WLAZLOWSKI S, BINNER JM, GIULIETTI M AND MILAS C. Dynamics in the European petroleum markets. *Keele Working Paper Series*, 2007, WP2007/04.
9. LEASK G, BISSOONDEEAL RK AND BINNER JM. Finding natural groups in data: an application to strategic group research. *Aston Working Paper Series*, 2007, RP0714, ISBN: 9781-85449-704-8.
10. BINNER JM, GAZELY AM AND KENDALL G. Evaluating the performance of a EuroDivisia index using artificial intelligence techniques. *Aston Working Paper Series*, 2007. RP0725, ISBN: 9781-85449-715-4.

11. BINNER JM, JONES B, KENDALL G, TEPPER JA AND TINO P. Evolution, recurrency and kernels in learning to model inflation. *Aston Working Paper Series*, 2007. RP0716, ISBN: 9781-85446-706-2.
12. BINNER JM, FLETCHER LR, KOLOKOLTSOV VN AND KHODARINOVA L. External pressure on alliances. *Aston Working Paper Series*, 2006. RP0636, ISBN 1-85449-644-1.
13. BISSOONDEEAL RK, BINNER JM AND ELGER T. Monetary models of exchange rates and sweep programmes. *Aston Working Paper Series*, 2006. RP0635, ISBN 1-85449-639-5.
14. BINNER JM AND SCHMIDT VA. Analysing Divisia rules extracted from a feedforward neural network. *Aston Working Paper Series*, 2006. RP0606, ISBN 1-85449-692-1.
15. BINNER JM, ELGER T, JONES BE AND EDGERTON D. Admissable monetary aggregates for the U.K. *Aston Working Paper Series*, 2006. RP0614, ISBN 1-85449-643-3.
16. BINNER JM, ELGER T, JONES BE AND NILSSON B. Inflation forecasting, relative price variability and skewness. *Aston Working Paper Series*, 2006. RP0615, ISBN 1-85449-638-7.
17. BINNER JM, GAZELY AM AND KENDALL G. Evolved vs. trained neural networks; an evaluation of U.K. risky money. *Aston Working Paper Series*, 2006. RP0629, ISBN 1-85449-604-2.
18. BINNER JM, BISSOONDEEAL RK, JONES BE, ELGER T AND MULLINEUX AW. Admissable monetary aggregates for the Euro area. *Aston Working Paper Series*, 2006. RP0628, ISBN 1-85449-624-7.
19. BISSOONDEEAL RK, BINNER JM, BHURUTH M, GAZELY AM AND MOOTANAH VP. Forecasting exchange rates with linear and nonlinear models. *Aston Working Paper Series*, 2006. RP0702, ISBN 1-85449-664-5.
20. WLAZLOWSKI S. BINNER JM, GIULIETTI M AND JOSEPH N. Nonlinearities in mark-up on costs. *Aston working paper series*, 2006. RP0634, ISBN 1-85449-634-4.
21. BINNER JM. Financial innovation in the U.K; A new tier-adjusted personal sector monetary services index. *Aston Working Paper Series*, 2005. ISBN 1-85449-621-2.
22. BINNER JM, BISSOONDEEAL RK AND MULLINEUX AW. Admissable monetary aggregates for the Euro Area. *Aston Working Paper Series*, 2005. ISBN 1-85449-616-6.
23. BINNER JM, ELGER T AND DE PERETTI, P. Is U.K. risky money weakly separable? A stochastic approach. Department of Economics, Lund University S-WoPEc No 13 2002.
24. BINNER JM AND ELGER T. The U.K. personal sector demand for risky money, Department of Economics Lund University S-WoPEc No 9 2002.
25. ELGER T, JONES B, EDGERTON D AND BINNER JM. The optimal level of monetary aggregation in the U.K. *Aston Working Paper Series*. 2004 ISBN 1-85449-549-6.
26. BINNER JM, KHODARINOVA L, FLETCHER LR., LUND A AND WHYSALL P. Optimal strategic investment in a duopoly. *Aston Working Paper Series*. 2004 ISBN 1-85449-544-5.

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27. BINNER JM AND ELGER T. The U.K. housing sector demand for risky money. *Aston Working Paper Series*. 2004 ISBN 1-85449-572.
28. BINNER JM AND DNES AW. Explaining changes in divorce trends: wife petitioning in England and Wales. *Aston Working Paper Series*. 2004 ISBN 1-85449-559-3.
29. KHODARINOVA LA, BINNER JM, FLETCHER LR, KOLOKOLTSOV VN AND WHYSALL P. Controlling alliances through executing pressure. *Aston Working Paper Series*. 2004. ISBN 1-85449-574-7.
30. SCHMIDT VA AND BINNER JM. Searching for Divisia/Inflation Relationships with the aggregate feed forward neural network. *Aston Working Paper Series*. 2004. ISBN 1-85449-665-4.

### **Unpublished Invited Presentations**

1. PRESTON J, BINNER JM, BRANICKI L, FERRARIO MA, KOLOKITHA, M. Multiple attacks on transport infrastructure: an inter-disciplinary exploration of the impact of social networking technologies upon real time information sharing, response and recovery, *2011 DHS Science conference – fifth annual university networks summit, Washington, USA*, March 2011.
2. WHITTLE JN, SIMM WA, BINNER JM, NASA, B. FERRARIO, MA. *Science in the New Parliament at the House of Commons*, London, UK October 2010.
3. WHITTLE J, SIMM W, BINNER JM, NASA, B. FERRARIO, MA. *The Guardian Activate Summit 2010*, Kings Place, London, UK July 2010.
4. NASA, B, BINNER JM, WHITTLE JN, SIMM WA, FERRARIO MA. Towards crime perception maps: automatically extracting quantitative results from qualitative questionnaire responses. *8th National Crime Mapping Conference*, UCL, London, UK. June 2010.
5. BINNER JM. A New Risk Adjusted Monetary Aggregate for the UK. *Aston University Alumni*. December 2004.
6. BINNER JM AND DNES AW. Measuring Divorce Rates in England and Wales: A Multivariate Time Series Approach. Presented at the *Economists Forum*, Lord Chancellors Department, London, July 1998.

Approximately 20 further conference presentations have been made which resulted directly in journal publication in preference to publication in the relevant proceedings.

### **Invited Seminars/Lectures**

- University of South Alabama, USA, January 2020
- University of Birmingham, Centre for Crime, Justice and Policing, June 2017
- Bank of England, Advanced Analytics Division, London, November 2016
- Peoples Bank of China, Monetary Analysis Section, March 2015
- University of Wisconsin, Department of Economics, November 2014
- University of Birmingham, Department of Economics, March 2014
- Wright Patterson Air force Base, Ohio, USA, January 2013
- Utrecht University, Department of Economics, The Netherlands, March 2012.



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- Warwick University, Business School, May 2008.
- **Keynote Lecture**, Business & Economics Society Conference, July 2007, Antibes, France.
- Federal Reserve Bank of St Louis, USA, January 2007.
- University of Essex, Department of Computer Science, November 2006.
- **'Oswald Distinguished Speaker'**, Department of Economics, University of Kansas, September 2006.
- Aston University, Economics and Strategy Group, March 2005.
- Aston University, Alumni Lecture, December 2004.
- University of Sunderland, Business School, May 1999.
- Nottingham Trent University, Department of Economics, December 1997.
- University of Sheffield, Department of Economics, October 1997.

### **Media Interview**

1. BBC Radio Birmingham, 'U.K. Inflation Prospects', August 2008.

### **RESEARCH FUNDING – EXTERNAL**

1. Elsevier, Money, Macro Finance Research Society and University of Liverpool, Conference Sponsorship, £2,000, £1,300 and £500 respectively, £3,800, PI, 2021
2. Marie Skodowska-Curie *Individual Fellowship* 657027 EUR 195,455 £147,109 Co-I (PI Peter Tino, University of Birmingham) Coevolve-framework – A Unified Framework for the Analysis of Co-evolutionary Systems, (2016-2018)
3. University of Wisconsin, River Falls, *Visiting Professorship*, £1,500 (2014-2018)
4. Money, Macro, Finance Research Group, Federal Reserve Bank of Dallas and Centre for Financial Stability” (CFS), Conference Sponsorship, 2017, £1,500, £7,750 and £6,000 respectively (PI)  
Bank of England hosted conference “Financial Services Indices, Liquidity and Economic Activity” 2017.
5. EPSRC £91,000 (Sheffield’s share of a £864,000) programme involving Oxford, Manchester, Warwick, Lancaster and East London Universities) PI  
Global Uncertainties: Game Theory and Adaptive Networks for Smart Evacuations (2010-3)
6. Leverhulme Trust *Visiting Professorship* £22,960 PI  
Intertemporal Consumption, Portfolio Choice and Liquidity (2010-13)
3. Swedish Research Council (VR) £58,530 Co-I (PI Bjorn Hansson, Lund University)  
Liquidity and the Capital Asset Pricing Model (2010-13)
4. EPSRC £208,792 (Sheffield’s share of a £1,042,621 programme involving Manchester, Lancaster, Brunel and Coventry Universities), Home Office contribution £7,200 PI  
Design in the Digital Economy: Making Public Places Safer (2009-12)

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5. Jan Wallander and Tom Hedelius Foundation £125,000 Co-I (PI Bjorn Hansson, Lund Univ)  
Dynamics in Systematic Liquidity (2010-13)
6. Federal Reserve Bank of St. Louis, USA, Visiting Scholar Funding \$3,000 (~£1,700) PI  
Measuring and Managing Liquidity (2009)
7. Federal Reserve Bank of St. Louis, USA, Visiting Scholar Funding \$3,000 (~£1,700) PI  
Liquidity and Portfolio Choice (2008)
8. Eurostat, Luxembourg, Conference Sponsorship £15,000 PI  
Aston / Lund joint conference on Measurement Error: Theory and Practice (2007)
9. Federal Reserve Bank of St. Louis, USA, Visiting Scholar Funding \$3,000 (~£1,700) PI  
Identifying Core Inflation via Wavelet Analysis (2007)
10. National Science Foundation, Taiwan £2,000 PI  
Weighted Monetary Aggregates and Computational Intelligence; the State of the Art and  
Implications for Taiwan, joint with Professor Shu-Heng Chen (2007-08)
11. Vinnova Swedish Academy Commercial Research Funding £260,000 Co-I (PI Thomas  
Elger, Lund University)  
Logistics in an International, National & Regional Economic Perspective (2006-09)  
<http://www.nek.lu.se/nektel/VINNOVA/Default.asp>
12. Leverhulme Trust Visiting Scholar Award £21,700 PI  
Monetary Aggregation and Weak Separability in the U.K. (2007-08)
13. Swedish Academy, *Travel Funding* £8,600 Co-I (PI Thomas Elger, Lund University)  
Inflation Forecasting: The Relevance of Divisia Higher Moments and Switching Regimes  
(2005-06)
14. Jan Wallander and Tom Hedelius Foundation. £135,000 Co-I (PI David Edgerton, Lund  
University, Testing for rationality and separability (2003-07)  
[http://www.nek.lu.se/nekded/Research/Projects/Rat\\_sep/Rat\\_sep.htm](http://www.nek.lu.se/nekded/Research/Projects/Rat_sep/Rat_sep.htm)
15. EPSRC Case Studentship<sup>1</sup> (£30,915) with Boots The Chemists plc (£13,200) £44,115  
PI  
The optimisation of market share in the retail sector. (2002-05)
16. Experian Industrial Research Funding £6,000 PI  
Production of Experian's 'Corporate Health Check Report'. (1999-2000).
17. Nottingham Consultants Ltd. Commercial Research Funding, £18,000 PI  
The creation and commercialisation of a dynamic game theoretic model for evaluating  
strategic investment in the retail industry. (1999-2002)

**Total External Funding Obtained**

**£1,189,456**

## **RESEARCH FUNDING – INTERNAL**

1. University of Birmingham, CoSS QR Funding, *Gender in the Business Cycle*, £4,950,  
PI, (2022)
2. University of Birmingham, Bank of England, *Conference Sponsorship*, "Financial  
Services Indices, Liquidity and Economic Actively" £6,600, PI, (2017).

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1. The PhD student withdrew from the programme for personal reasons and hence the EPSRC element of the award was lost. Boots allowed me to use their financial contribution towards my ESRC application entitled 'Application of Game Theory to Evaluate Strategic Alliances'.

3. University of Birmingham *Senior Visiting Professorship*, Is Britain a common currency area in line with the Euro area or would England and the Euro Area as a whole served with different currencies? £5,000, PI, (2015-2016)
4. University of Birmingham Financial Resilience *Cluster Funding* £60,000 PI (2014 – 2016)
5. University of Birmingham *Senior Visiting Professorship*, Is the UK a common currency area in line with the Euro area or would England and Scotland be better served with different currencies? £5,000, PI (2014-2015)
6. University of Birmingham *Senior Visiting Professorship*, A time varying liquidity premium in a DSGE modelling framework: a counterfactual study for Taiwan and the USA, £5,000 PI (2014-2015)
7. University of Sheffield *Research Stimulation Fund*, A model of liquidity shocks for the financial crisis £5,000, PI (2013)
8. University of Sheffield *Proof of Concept Fund*, Research & Innovation Services £6,900, PI, VoiceYourView (vYv): Making Public Places Safer (2010-2011)
9. Aston University *Visiting Scholar Support Scheme* £2,300, PI  
Richard G. Anderson, Federal Reserve Bank of St Louis, Intertemporal Consumption and Portfolio Choice (2009-2010)
10. Aston University *Visiting Scholar Support Scheme* £1,070, PI  
Michael Belongia, University of Mississippi, USA Information Content of Monetary Assets (2009-2010)
11. Aston University *Visiting Scholar Support Scheme* £4,680, PI  
Richard G. Anderson, Federal Reserve Bank of St Louis, Portfolio Choice via Mean-Variance Analysis and Utility Maximization (2008)
12. Aston University *Visiting Scholar Support Scheme* £2,540, PI  
Richard G. Anderson, Federal Reserve Bank of St Louis, Utility Maximising Behaviour and the CAPM; the Substitutability of Financial Assets (2007)
13. Aston University *Visiting Scholar Support Scheme* £4,100, PI  
Richard G. Anderson, Federal Reserve Bank of St Louis, Identifying Core Inflation via Wavelet Analysis (2006)
14. Aston University *Pump Prime Scheme* £5,000, PI  
Optimal Monetary Aggregates in the EMU-Area (2006)
15. Aston University *Pump Priming Scheme* £5,000, PI  
Identifying Core Inflation via Spectral Methods (2006)
16. Aston University *Pump Priming Scheme* £3,140, PI  
An Application of Artificial Intelligence to Strategic Groups (2005-06)
17. Aston University *Visiting Scholar Support Scheme* £1,400, PI  
Thomas Elger, Lund University, Divisia second moments and weak separability (2005-06)
18. Aston University *Pump Priming Scheme* £5,000, PI  
Inflation, Divisia second moments and weak separability (2004-05)
19. Aston University *Visiting Scholar Support Scheme* £2,400, PI  
Barry Jones, State University of New York, Financial innovation in the construction of money (2004-05)

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20. Nottingham Trent University *Long Term Strategic Initiative* £25,000, PI  
Financial innovation in the construction of money (2002-03)
21. Nottingham Business School *Funding Researchers Scheme* £1,000, PI  
Optimising the construction of money using neural networks, joint with AM Gazely (2002-03)
22. Nottingham Business School *Funding Researchers Scheme* £1,000, PI  
The application of a dynamic game theoretic model in a real life entry deterrence situation (2000-01)
23. Nottingham Business School *Funding Researchers Scheme* £2,000, PI  
The application of neural networks to the Divisia index debate; the case of Taiwan, joint with AM Gazely (1999-2000)
24. Nottingham Business School *Funding Researchers Scheme* £1,000, PI  
Development of a multivariate time series model as a tool for enhancing personal financial decision-making (1999-2000)
25. Nottingham Trent University Research Enhancement Fund £26,500, PI  
A multivariate time series analysis of the performance of Divisia monetary indices across Europe (1999-2002)
26. Nottingham Business School *Funding Researchers scheme* £1,000, PI  
An investigation into the value of National Income targeting using innovation accounting decompositions (1998-99)
27. Nottingham Business School *Funding Researchers scheme* £1,000, PI  
Explaining the growth of divorce in Great Britain using intervention analysis (1997-98)
28. University of Derby *New Researchers Award* £2,500, PI  
Vector autoregressive modelling of the demand for money by the personal sector (1995-96)
29. University of Derby *Small Projects Grant Scheme* £5,000, PI  
The measurement of the convergence of the European economies using a structured vector autoregressive modelling technique (1995-96)
30. University of Derby *Student Researchships Scheme* £15,000, PI  
A multivariate time series analysis of the performance of the Divisia monetary aggregate throughout Europe. (1995 – 98)

**Total Internal Funding Obtained** **£211,080**

**TOTAL FUNDING OBTAINED** **£1,400,536**

### **3. MANAGERIAL RESPONSIBILITIES**

#### **Impact Lead, Department of Finance (2018 – 2019)**

I have recently been responsible for the development of Impact case studies for REF 2020 and training colleagues in how to create and fulfil their full potential with respect to effect

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on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia.

### **Deputy Head of Finance (2017- 2018)**

My role within the University of Birmingham Business School was to support the Head of Finance in leading the subject area of Finance in every respect. This role involved me in sitting on appointment panels, mentoring junior colleagues and supporting the development of research papers, grant proposals and formation of international research networks. I supported the delivery of final examination marks and represented the Head of Finance at meetings as appropriate.

### **Director, Financial Resilience Research Cluster (2015 – 2018)**

I am currently responsible for leading the multidisciplinary research spanning the field of Finance to link research interests in Finance across the whole of the University of Birmingham and I am now in the process of growing our Financial Resilience Research Cluster into a new Research Centre.

### **Head of Accounting and Financial Management (AFM) Division Responsibilities (2012 - 2013)**

My role within the University of Sheffield Management School was to lead the subject area of Accounting and Finance in every respect. I was responsible for the following areas:

- All issues relating to teaching and teaching quality in AFM
- I sat on the promotions panel and dealt with disciplinary matters
- I was in charge of recruitment in AFM
- I allocated mentors for colleagues on teaching, research and staff performance review issues
- I sat on the teaching and learning committee and research committee
- I was responsible to the Dean of the Management School.

### **Chair in Corporate Finance Responsibilities (2010 - 2013)**

I lead the subject area of Finance in every respect. This included being involved with the recruitment process; six new members of academic staff were appointed between November 2010 – July 2013. I lead the REF submission for the Accounting and Finance Department and I was the subject leader of Finance. This involved me in dealing with all aspects of quality in the provision of Finance programmes. I was responsible for mentoring all the Finance academics on research issues and leading the postgraduate admissions for new PhD and MPhil students. I developed and launched a new Masters in Finance and Accounting degree as programme director. This involved me in writing new module documents and liaising with colleagues in the Finance and Accounting team to bring the new degree scheme online for a launch in September 2011. This new postgraduate degree proved extremely popular and has already attracted 250 MSc students in 2013/14. I also organised and lead a series of four Grant Writing Workshops to help to raise the success rate of research funding proposals that were submitted. Finally, I was invited by the Director of Research within Sheffield Management School to support a proposal for the formation of a new university wide research theme on “Resilience”.

## **Previous Administration – Aston Business School**

### **Deputy Director of Performance Measurement & Management Research Theme (2007-2009)**

This role was focused on encouraging the cross fertilisation of ideas amongst the Groups within the School in order to be able to respond quickly and effectively to longer, larger research funding opportunities. My role was to work alongside the Director (Professor Emmanuel Thanassoulis) to seek out funding opportunities, to put together Business School wide consortia and to guide the submission of the applications. To achieve this end, I was required to have a detailed knowledge of my colleagues' skills base and interests in the area of Performance Measurement and to provide the motivation and inspiration to see the application through to successful submission.

### **Research Convenor Responsibilities (2003 – 2010)**

#### *Management-centred*

1. Responsible for Group RAE/REF submission – This involved me in collating and prioritising information from ~20 colleagues and transforming the data into what was required by the RAE and later, REF, to highlight the key strengths, world leading status and quality of the Economics & Strategy Group (ESG) in ABS and Sheffield Management School.
2. Review research proposals and working papers from my colleagues and provide guidance on research proposal and paper writing - This involved me in training staff on how to write a good research proposal and journal papers and providing encouragement and advice on key issues relating to attracting funding and getting work published.
3. Liaison with the School Research Director – I was the main channel through which all research issues pass from the ESG to the Research Director and vice versa.
4. Represent ESG at the Business School Research Committee – I undertook all tasks assigned to me by the Research Committee on behalf of the ESG and represented the views of ESG members at the Research Committee meetings.
5. Monitor the publication of papers and review research progress of ESG academics – I led and encouraged research within ESG. I was responsible for ensuring all members of the ESG met research targets and I steered my colleagues in the right direction if they were in danger of missing them.
6. Mentor lecturing staff in ESG – I advised 3 members of staff on a wide range of issues relating to how to be successful as an academic.
7. Producing the ESG Research Brochure – This was a short annual brochure summarising the recent highlights of the Group's activities.
8. Responsible for ESG's contributions to the Aston Business School Working paper series – I introduced a formal refereeing process to ensure our working papers were of the highest standard.
9. Responsible for ensuring that the research undertaken by academics within the ESG met the guidelines provided by the Ethics Committee (this included confidentiality issues, etc).

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10. Managed ESG Pump Prime Funds (2003 – 2007) – I formed a small panel of ESG members and together we evaluated and made funding decisions on research proposals submitted by ESG staff and postgraduate students for the ESG pump prime funds. Note: This fund was terminated in 2007 due to changes in budgetary allocation.
11. Produced the ESG annual report (2003 – 2007) – I collected and collated data gathered annually from across all ESG members on all aspects of our research activity, e.g. publications, conference proceedings, funding, visiting scholars etc.

#### *Student-centred*

12. Oversaw postgraduate admissions for ESG – I dealt with all postgraduate research, PG(R), enquiries within our Group. I advertised postgraduate applications around ESG members and sat on interview panels whenever possible to ensure that our postgraduate recruitment was of the highest quality.
13. Oversaw PhD progression / development in ESG – I represented ESG at the Business School Research Degrees Examination Board and chaired all upgrading vivas.
14. Ensured ESG postgraduate departmental records were maintained.
15. Organised the annual ESG ‘Research in Progress Day’.
16. Helped to resolve any problems between PhD students and their supervisors.

#### Senior International Officer (SIO) (2006 - 2009)

My role as an SIO involved me in advising the members of the International Office on relevant policy with respect to both teaching and research issues. This involved me in being proactive in seeking out new international partners and organising international events. For example, I led a new, university-wide, research partnership with the National Chengchi University in Taiwan. I also advised on quality issues relating to modules taken by international visiting students.

#### **Previous Administration – Nottingham Business School**

##### Research Strategy Group Membership

I was invited to serve on a Research Strategy Group that was formed within the Business School. This involved working with senior colleagues to establish new research policy and allocate scarce research resources among academic staff in the light of the outcome of the 2001 RAE. I was also the Research Seminar Co-ordinator for my department; I organised numerous external speakers and three departmental Research Forums. The latter involved me in organising two staff development workshops each year to promote a research culture and encourage new researchers to engage in research activity via a team building approach. In 1997 I was invited by the Dean of Research at NTU to sit on the panel that assessed the strategic research plan of the Economics Department.

## **4. TEACHING**

### **Current teaching**

Currently I lead the MSc Financial Management “Financial Modelling Techniques” module and also the second year undergraduate module, *BSc International Economics and Finance for Decision Making* for the major/minor degree in Finance. In addition, each year I am involved with supervising ~6 MSc dissertations and ~ 3 BSc Accounting and Finance final year essays.

My goal is to combine the highest quality teaching with the best research since I believe that the latter can benefit the former tremendously. As an example, the research I am undertaking on “Strategic Investment and Optimal Market Share” benefits lectures I deliver on my “*Finance for Decision Making*” module. The process of strategic decision making in the real world provides me with insights that allow me to give the students a clear understanding of current procedures and policies in finance, industry and government.

### **Previous teaching**

Previously I have been involved in teaching modules at all levels from first year undergraduate to Masters and covering a wide range of topics including *Contemporary Issues in Finance*, *Quantitative Methods in Business*, *Advanced Econometrics*, *Applied Econometrics & Forecasting*, *Time Series Analysis*, *Corporate Finance*, *Financial Strategy and Planning* (including Derivatives), *Financial Management*, *Financial Analysis*, *Financial Modelling*, *Financial Mathematics* (including Derivatives), *Investment and Portfolio Management*, *Research Methods in Finance*, *Advanced Statistics*, *Probability & Statistics* and *Reliability Engineering*. Whilst at Aston Business School I lead the first year *Economic Environment of Business* (~580 students per annum) and a new postgraduate *Applied Macroeconomics* module. In addition, each year I was involved with supervising ~8 MSc dissertations and ~3 placement students.

I was the module leader for the postgraduate *Quantitative Methods in Finance and Accounting* module on the new Finance and Accounting MSc degree whilst at the University of Sheffield and was formerly module leader for the first year *Perspectives in Finance and Accounting* module (~200 students).

I have gained excellent feedback from the students with a student evaluation score of 4.4 out of 5 for my *Quantitative Methods in Finance* module. My links with the Bank of England’s monetary strategy group and the Federal Reserve Bank of St Louis, USA, have allowed me to host guest lectures entitled, ‘Macroeconomic Forecasting in Practice’ and ‘What Do Central Bankers Do?’ on my *Perspectives in Finance and Accounting* module at the University of Sheffield and my *Applied Econometrics in Forecasting* module whilst at Aston. These guest lectures are always highly popular with the students and receive excellent student feedback.

**Previous postgraduate developments:** I have developed and launched a new Masters in Finance and Accounting degree as programme director at Sheffield Management School. This has involved me in writing new module documents and liaising with colleagues in the Finance and Accounting team to bring the new degree scheme online for a launch in September 2011. This postgraduate degree has proven extremely popular and had already recruited 250 students by 2013/14. Whilst at Aston Business School I was involved in the design and development of a new Master’s degree in International Business that involved me in writing module specification documents. The module was launched in October 2008.

**Undergraduate developments:** Whilst at Nottingham Business School, I designed and successfully ran an undergraduate module in the specialist field of Financial Modelling for



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two years. This module proved extremely popular with 2<sup>nd</sup> year students from across the entire Business School. Students frequently commented how relevant and practical this course was in preparing them for their future careers as Business Analysts. The module drew on my own personal experience from working as a Business Analyst at Experian and was one of only two in the U.K. to introduce students to the rapidly expanding and increasingly important area of credit scoring. The module incorporated a guest lecture from a director of Fair Isaac Ltd, one of the UK's leading Financial Information Solutions companies.

### **TEACHING PUBLICATIONS**

1. BINNER JM (2010) Approach on how to be a good student. **Aston Business School, Good Practice Guide in Learning and Teaching**, Green J and Higson H. (eds), pp 14 – 17.
2. BINNER JM (2009) What Do Central Bankers Do? A Good Practice Example: The Guest Lecturer, **Aston Business School, Good Practice Guide in Learning and Teaching**, Green J and Higson H. (eds.), pp 14 – 17.

## **5. OTHER ACTIVITIES**

### **Membership of Professional Bodies**

1. Fellow of the Institute for Nonlinear Dynamical Inference (INDI) 2017 -
2. Money, Macro & Finance Research Society, Committee member 2015 – present and member 1986 – present
3. Member of the Society for Economic Measurement, 2013 – present
4. Fellow of the Royal Society for the Encouragement of Arts, Manufacturers and Commerce, 2015 - 2019
5. Member of the Royal Economic Society, 2012 – 2019.
6. Member of the Strategic Management Society, 2011 - 2014
7. Member of the British Academy of Management, 2007 – 2009.
8. Member of the IEEE Computational Intelligence in Finance and Economics Society, 2006 – present.
9. Member of the Society for the Advancement of Economic Theory (SAET), 2005 – 2007.
10. Member of the Econometrics Society, 2002 – 2004.
11. Member of the Society for Computational Economics, 2000 – 2010.
12. Member of the New Institutional Economics Group, 2000 – 2008.
13. Member of the Western Economic Association, 1999 – present.

All the above are international groups of academics, policy decision makers and other researchers dedicated to pursuing financial economics-related research in their respective fields.

### **External Responsibilities**

1. External Examiner, University of Nottingham: Economics Postgraduate and Undergraduate Programmes, 2022 -
2. Committee member of the Money, Macro Finance Research Society, 2015 -
3. Visiting Professor, University of Wisconsin River – Falls, USA, 2014 -
4. External Examiner, Imperial Business School, Finance Programmes, 2012 - 2016
5. Mentor for new External Examiners in Finance and Accounting, Imperial College, 2014 - 2016
6. Advisor on monetary aggregate construction to the Federal Reserve Bank of St Louis, USA, 2006 – 2013
7. I am a member of the Board of Trustees of the American Business & Economics Society International and also serve on the Editorial Board of their journal '*Global Business & Economics Review*'.
8. I was a member of the Programme Committee for the Duke Forest Conference 2016 (DFC 2016), Economics in the Era of Natural Computation and Big Data, IEEE Congress on Data Mining, DMIN15, DMIN14, DMIN13, DMIN12 and DMIN11 (USA), IEEE Symposium Series on Computational Intelligence, SSCI 2013, Singapore, IEEE

Congress on Evolutionary Computation, CEC 2010 (Spain) and CEC 2009 (Norway); International Workshop on Computational Intelligence in Economics and Finance, CIEF 2008 (Kaohsiung, Taiwan) and the CIEF meetings held in 2007 (Salt Lake City), 2006 (Kaohsiung, Taiwan), 2005 (Salt Lake City), 2003 and 2002 (North Carolina) and 2000 (Atlantic City). I was also a Member of the Programme Committee for the International Conference on Artificial Intelligence (ICAI) in 2002 (Las Vegas).

9. I was editor of the quarterly 'Experian Corporate Health Check Report and Macroeconomic Commentary', 1999 – 2004. This was a quarterly bulletin that analysed each sector of business in the U.K., e.g. manufacturing, services, etc. and evaluated prospects for business performance.
10. I was the editor of a special issue entitled 'Measurement Error: Econometrics and Practice' of the journal 'Advances in Econometrics'. Papers were selected from the Aston / Lund joint conference held at Aston University in July 2007. I have previously served as guest editor for a special issue of 'Advances in Econometrics' entitled 'Applications of Artificial Intelligence Techniques in Finance and Economics' from papers selected from the special session I co-organised at the 2003 Multiconference on Artificial Intelligence in Las Vegas, USA, July 2003.
11. I have served as External Examiner for;
  - the PhD programme, University of Mauritius School of Business, 2015 – 2016
  - the University of Leicester School of Economics, PhD programme, 2014
  - the MSc by Research degree at University of Hertfordshire Business School, 1999 – 2002
  - the Undergraduate and Postgraduate Business and Economics Programmes, University of Hull, 2006 – 2009
  - the University of Mauritius Business School Sustainable Tourism MBA Programme, 2009 – 2011
  - the undergraduate and postgraduate Accounting and Finance degree programme, Imperial University Business School, 2012 – 2016
  - PhD viva examination, Department of Economics, PhD programme, University of Leicester, 2014
  - PhD viva examination, School of Business Management and Finance, University of Mauritius, 2015
12. I was invited by monetary policymakers at the Bank of England to comment on the proposed changes to UK Divisia construction in Spring 2005.

### **Industrial Experience**

**Business Analyst (1991-93):** My employment at CCN Decision Systems, now Experian, gave me the opportunity to instigate, run and implement projects on behalf of the major banks, building societies and high street retailers in both the UK and abroad. My work involved advising financial managers on the most appropriate statistical models to influence and control default rates on clients' payments. This involved me in data sample and design meetings and the application of statistical techniques to data provided by the clients with a view to minimising the problem of bad debt and increasing profitability. Specifically, I constructed credit scorecards to assess financial risk and also litigation scorecards to determine when it was appropriate to sue clients at both personal and commercial levels. In addition, I was involved in establishing a database to assess the risk of fraud.

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**Financial Consultant (1990-91):** During my period of employment with the Merchant Investors Group I gained experience in personal financial planning and I qualified to advise clients on a range of investment strategies and products.

My three-year period in industry has allowed me the opportunity to gain an understanding of the financial services industry. Frequent client contact has provided me with a wide understanding of business issues and company policies.

### **Staff Development**

#### *Birmingham Business School*

1. Online teacher training courses (2020)
2. Mentoring (2018)
3. International relations, Birmingham Business School (2018)
4. Grant writing workshop (2017)
5. How to publish 4 \* papers (2016)
6. How to give evidence at a House of Commons Select Committee training, (2014)

#### *Sheffield Management School*

1. How to use "Clickers" in the classroom (2013)
2. 'Staff Development Review: Conducting Appraisal Meetings' (2011)
3. 'Case Studies in Commercialisation' (2010)

#### *Aston Business School*

4. 'Grant Writers Retreat' (2009)
5. 'Grant Writers Retreat' (2008)
6. 'Research Team Leadership' (2007)
7. 'Talking to the Media' (2006)
8. 'Mentoring' (2004)

#### *Nottingham Business School*

1. 'How to apply for research funding' (2003).
2. 'How to be an internal PhD examiner' (2003).
3. The annual 'Information Technology' training day (2002).
4. The Nottingham Business School workshop on 'Getting Published' (2002).
5. 'Assertiveness Course' (2001).
6. Attendance at the Annual Learning and Teaching Conference (2000).
7. 'Legal issues and intellectual property rights' (2000).
8. 'PhD supervisors training course' (1999).
9. 'Pastoral care of students' (1998).
10. 'The use of video conferencing in teaching' (1997).

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11. The teacher-training course during the first semester of my employment at Nottingham Trent University to update my PGCE knowledge (1995).

*External Courses*

1. Social and Participatory Media in Academic Life, organised by University of Nottingham (2012).
2. Interpersonal Skills, organised by CareerTrack (1995).

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## **REFERENCES**

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