




## Professor Stephen M. Disney, Ph.D.




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CONTACT INFORMATION	 Centre for Simulation, Analytics, and Modelling, University of Exeter Business School, Streatham Court, Rennes Drive, Exeter, EX4 4PU, UK.	 +44(0)1392 725968  stephen.disney  S.M.Disney@exeter.ac.uk  www.bullwhip.co.uk
RESEARCH INTERESTS	Bullwhip effect; Inventory theory; Forecasting; Control theory; Supply chain management; Operations management; Closed-loop supply chains; Business analytics; Statistics.	
KEY RESEARCH METRICS	 Google Scholar H-Index: 56, Google Scholar i-10 Index: 119, Google Scholar Citations: 14059, ResearchGate Research Interest Score: 6285. Erdős Number: $\leq 4$ .  March 5, 2024	
EDUCATION	 <b>Cardiff Business School</b> , Cardiff University, UK.  <i>Doctor of Philosophy, Ph.D.</i>  1995-2001 <ul style="list-style-type: none"><li>• Dissertation Topic: The production and inventory control problem in vendor managed inventory supply chains.</li><li>• Advisors: Professor Mohamed M. Naim and Professor Denis R. Towill.</li><li>• Examiners: Professor Maurice Bonney (Nottingham University) and Professor David Bennett (Aston University).</li></ul>	
	 <b>Cardiff School of Engineering</b> , Cardiff University, UK.  <i>M.Sc. in Systems Engineering</i>  1994-1995 <ul style="list-style-type: none"><li>• Dissertation Topic: Redesign of an electromagnetic valve in a concurrent engineering environment.</li><li>• Advisor: Professor Duc T. Pham.</li></ul>	
	 <b>Cardiff School of Engineering</b> , Cardiff University, UK.  <i>B.Eng (Hons) in Manufacturing Systems and Manufacturing Management</i>  1992-1994 <ul style="list-style-type: none"><li>• Dissertation Topic: Assessment of spreadsheet models for teaching operations management.</li><li>• Advisor: Dr. Jane Edghill.</li></ul>	
	 <b>University of Exeter Business School</b> , UK.  <i>Professor in Operations Management</i>  2019-present <ul style="list-style-type: none"><li>• Teaching Operations Management to second year undergraduates, Maths and Statistics for Business Analytics and Operations and Project Management to postgraduates and Data Analytics to MBA students.</li><li>• Head of the Science, Innovation, Technology, and Entrepreneurship Department Jan 2020 to September 2022. Line manager for 60+ academic staff.</li><li>• Director of the Centre for Simulation, Analytics, and Modelling, since September 2021.</li></ul>	
	 <b>Cardiff Business School</b> , Cardiff University, UK.  <i>Professor in Operations Management</i>  2011-2019 <ul style="list-style-type: none"><li>• Head of the Logistics and Operations Management Section, Sept 2012 - Sept 2015. Led a department of 62 academic staff of which I line-managed 31 academics.</li><li>• Director of the Logistics Systems Dynamics Group, September 2016-August 2019.</li></ul>	
ACADEMIC EXPERIENCE		




- Teaching an MBA module entitled Operations Analysis, an M.Sc. module entitled Operations Management, an M.Sc. module entitled Supply Chain Modeling, an M.Sc. module entitled Logistics and Transport Modeling, and an M.Sc. module entitled Operations Analytics.
- Supervision of PhD, M.Sc., and MBA dissertations.
- Awarded a Research Leave Fellowship by the University Executive Board of Cardiff University to take a research sabbatical in 2015-2016.

 **Anderson School of Management, UCLA, USA.**  2015-2016  
 *Visiting Research Scholar*




- Research with Professor Christopher Tang on supply chain coordination problems.
- Industrial engagement with Lexmark in Boulder, Colorado, USA.
- US lecture tour including research seminars at Northwestern University, University of California Los Angeles, Cornell University, and Arizona State University. Research visits to the University of San Diego, University of California Irvine, and Boston University.

 **Cardiff Business School, Cardiff University, UK.**  2009-2011  
 *Reader in Operations Management*




- Director, Developer, and Admissions Tutor for the M.Sc. in Logistics and Operations Management course.
- Teaching MBA Operations Analysis module and an M.Sc. module entitled Operations Management.
- Development and delivery of an executive education course in Operations Management.
- Development and delivery of service teaching course for the Department of Mathematics in M.Sc. Applied Operations Research module in Supply Chain Modeling.
- Co-ordinated the periodic review of the schools logistics and operations management postgraduate provision.
- Supervision of Ph.D., M.Sc., and MBA dissertations.

 **Department of Administrative Sciences, Boston University, USA.**  2011  
 *Visiting Assistant Professor*

- Teaching an M.Sc. module entitled Global Services and Supply Chain Management, a BA module entitled Project Management and an M.Sc. module entitled Quantitative and Qualitative Decision Making (On-line).
- Research with Professor Roger Warburton on applying the Lambert W Function to EOQ problems and studying the influence of stochastic lead-times on safety stock.

 **Cardiff Business School, Cardiff University, UK.**  2005-2009  
 *Senior Lecturer in Operations Management*




- Teaching Operations Management to the MBA and DBA courses and Logistics and Transport Modeling and Operations Management to M.Sc. students.
- Development and delivery of an executive education course in Operations Management.
- Supervision of Ph.D., M.Sc., and MBA dissertations.
- Co-investigator on various *CUIMRC* projects, participant on other (national and international) projects.
- Industrial Liaison Manager, Logistics Systems Dynamics Group (until June 2008).

 **Cardiff Business School, Cardiff University, UK.**  2003-2005  
 *Lecturer in Operations Management*

- Teaching Operations Management to the DBA, Logistics and Transport Modeling to the M.Sc. and B.Sc. in International Transport, Operations Management to the MBA.
- Supervision of Ph.D., M.Sc., and MBA dissertations.
- Coordinator and Co-Investigator of the *ITeLS* project.
- Industrial Liaison Manager for the Logistics Systems Dynamics Group.

 **Department of Systems Engineering**, Chinese University of Hong Kong, HK.  2002  
 *Visiting Scholar*

- Research with Professor Youhau (Frank) Chen on the stochastic investigation of optimal order-up-to policies with z-transforms.
- Guest lectures.


 **Cardiff Business School**, Cardiff University, UK.  2000-2003  
 *Research Associate*


- Teaching Operations Management to the DBA course, Logistics and Transport Modeling to the M.Sc. and B.Sc. in International Transport cohorts, and Operations Management to the MBA.
- Supervision of Ph.D., M.Sc., and MBA dissertations.
- Coordinator and Co-Investigator of the EPSRC *EURONiL* and *ITeLS* projects.
- Industrial Liaison Manager for the Logistics Systems Dynamics Group.


 **Department of Maritime Studies**, Cardiff University, UK.  1996-2000  
 *Research Associate*


- Research Associate on the *Design, Implementation and Evaluation of a Dynamic Supply Chain Decision Support System*, an EPSRC project.
- Research Assistant on the *Human Capital and Mobility* project, a joint project with Chemnitz University, Germany.


## HONORS AND AWARDS


 I was awarded a **University of Exeter Business School Teaching Award**, Department Winner in June 2023, for my teaching on the Maths and Statistics in Business Analytics module.

 My paper (with Borja Ponte and Xun Wang) entitled “The nonlinear dynamics of order-up-to inventory systems with lost sales”, won a **Commended Paper Award** at the International Federation of Automatic Control, 8th Manufacturing, Modelling, Management and Control Conference in August 2019.

 My paper (with Bahman Rostami-Tabar) entitled “The bullwhip effect under count time series: The case of first order integer auto-regressive demand processes”, won the **Best Track Paper** at the International Symposium on Industrial Engineering and Operations Management in 2017.

 My project with Lexmark was recognized with a prize in the supply Chain Leadership category of **Frost and Sullivan’s Manufacturing Leadership Awards** in 2014.

 My co-author, Xun Wang was awarded the **Young Scientist Award** at the 21st International Conference on Production Research in 2011 for the paper Wang, X. and Disney, S.M., “Stability analysis of a constrained inventory system”.

 My PhD student, Pairach Piboonrungrroj was awarded the **Harry Boer Highly Commended Student Paper Award** at the 18th Annual European Operations Management Association Conference in 2011 for the paper Piboonrungrroj, P. and Disney, S.M., “Supply chain collaboration, inter-firm trust and logistics performance: Evidence from the tourism sector”.

 The Production Planning and Control journal **Best Paper Award for 2008** was given to Boute R.N., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2008), “A win-win solution for the

bullwhip problem”, *Production Planning and Control*, 19 (7), 702-711.

🏆 I was a finalist for the **UK Operations Research Society’s Presidents Medal** in September 2007. This medal is awarded for a practical application of OR techniques to industry. My work at Tesco was considered.

🏆 The Chartered Institute of Logistics and Transport awarded my M.Sc. in International Transport student Ting Ting Wu the **Masters Logistics Dissertation of the Year Award** in 2006.

🏆 Emerald Publishing gave a **Citation of Excellence Award** for one of the best 50 Management Papers in 2005. Over 40,000 articles were reviewed from 1500 journals. The award was given for the paper Holweg, H., Disney, S.M., Holmström, J. and Småros, J., (2005), “Supply chain collaboration: Making sense of the strategy continuum”, *European Management Journal*, 23 (2), 170-181.

🏆 The Literate Club gave a **Highly Commended Award** for the paper Towill, D.R., Childerhouse, P. and Disney, S.M., (2000), “Speeding up the progress curve towards effective supply chain management”, *Supply Chain Management: An International Journal*, 5 (3), 122-130.

INVITED TALKS,  
SEMINARS,  
TUTORIALS,  
PANELS, AND  
PLENARIES

- 🎤 **Invited Tutorial** at the **The Second Operations Analytics Event** 📅 April 2024  
*Inventory management under stochastic lead times: A tutorial* 📍 Leuven, BELGIUM
- 🎤 **Invited Seminar** at the **University of Bath, School of Management** 📅 Sept 2023  
*On the transition from make-to-stock to make-to-order* 📍 Bath, UK
- 🎤 **Invited Seminar** at the **Glorious Sun School of Business and Management, Donghua University** 📅 Sept 2023  
*On the transition from make-to-stock to make-to-order* 📍 Shanghai, CHINA
- 🎤 **Invited Tutorial** at the **International Society for Inventory Research Summer School** 📅 July 2023  
*Discrete control theory for inventory management: A tutorial* 📍 Cardiff, UK
- 🎤 **Panel member** at the **33rd Annual POMS-Conference** 📅 May 2023  
*Meet the editors session in the inventory and logistics track* 📍 Orlando, USA
- 🎤 **Invited Presentation** at the **World Intelligent Manufacturing Summit** 📅 Nov 2022  
*Global dual sourcing with SpeedFactories: The case of correlated demand* 📍 Nanjing, CHINA
- 🎤 **Invited Seminar** to the **Logistics Systems Dynamics Group at Cardiff Business School, Cardiff University** 📅 Jan 2022  
*On the order-up-to policy with intermittent integer demand and coherent forecasts* 📍 Cardiff, UK
- 🎤 **Invited Seminar** for the **OR Seminar Series at The University of Exeter, College of Engineering, Mathematics, and Physical Sciences** 📅 Jan 2021  
*SpeedFactories: Global dual sourcing under correlated demand* 📍 Exeter, UK
- 🎤 **Invited Seminar** at the **International Society for Inventory Research Summer School** 📅 Aug 2019  
*Discrete control theory* 📍 Leuven, BELGIUM
- 🎤 **Invited Talk** at **The Public Uni** 📅 Nov 2017  
*Global dual sourcing and SpeedFactories* 📍 Cardiff, UK
- 🎤 **Invited Seminar** at **Cardiff University Mathematics Society** 📅 Oct 2017  
*Global dual sourcing and SpeedFactories* 📍 Cardiff, UK
- 🎤 **Research Seminar** at **Faculty of Economics and Business** 📅 June 2017  
*Three means of smoothing under cyclical production planning* 📍 KULeuven, BELGIUM.
- 🎤 **Invited Talk** at **The Public Uni** 📅 Feb 2017  
*The dynamic behavior of supply chains: the bullwhip effect* 📍 Cardiff, UK.
- 🎤 **Invited Speech** at the **Annual Conference on “Risk, resilience and robustness of dynamic supply networks: Bridging mathematical models and practice”** 📅 Jan 2017

- The bullwhip effect in supply chains* 📍 Edinburgh, UK
- 🎤 **Plenary Speech** at the **Stochmod Conference: The EURO Working Group on Stochastic Modeling** 📅 July 2016  
*The bullwhip effect in supply chains* 📍 Louvain-la-Neuve, BELGIUM
- 🎤 **Research Seminar** to the faculty of **Samuel Curtis Johnson Graduate School of Management** 📅 April 2016  
*Stochastic lead-times and inventory management* 📍 Cornell University, USA
- 🎤 **Research Seminar** to the faculty of **W.P. Carey School of Business** 📅 March 2016  
*The bullwhip problem and stochastic lead times* 📍 Arizona State University, USA
- 🎤 **Research Seminar** to the faculty of **Kellogg School of Management** 📅 Jan 2016  
*The bullwhip effect* 📍 Northwestern University, USA
- 🎤 **Research Seminar** to the faculty of **Anderson School of Business** 📅 Oct 2015  
*The bullwhip problem and stochastic lead times* 📍 University of California Los Angeles, USA
- 🎤 **Invited Lecture** on the **NATCOR Ph.D. Stochastic Modeling course** 📅 March 2015  
*Supply Chain Management lectures* 📍 Lancaster University, UK
- 🎤 **Research Seminar** to the faculty of **Saïd Business School** 📅 Jan 2015  
*Solving the bullwhip problem once and for all* 📍 Oxford University, UK
- 🎤 **Christmas Lecture** to the **South Wales Operational Research Discussion Group (SWORDS)** 📅 Jan 2015  
*The dynamics of supply chains* 📍 Cardiff, UK
- 🎤 **Guest Lecture** to the pupils of **Xingan High School** 📅 April 2014  
*University life in the UK* 📍 Xingan, Jiang Xi Province, CHINA
- 🎤 **Invited Seminar** delivered to the **Logistics and Supply Chain Forum** run by **Richmond Events** 📅 March 2014  
*The bullwhip effect in supply chains* 📍 Whittlebury, UK
- 🎤 **Invited Lecture** on the **NATCOR Ph.D. Stochastic Modeling course** 📅 April 2013  
*Supply chain management lectures* 📍 Lancaster University, UK
- 🎤 **Research Seminar** at the **Lancaster University Management School** 📅 Feb 2013  
*Damped Trend forecasting and the Order-Up-To policy* 📍 Lancaster University, UK
- 🎤 **Invited Talk** to the pupils of **Cathedral School** 📅 Dec 2011  
*Where research leads* 📍 Cardiff, UK.
- 🎤 **Series of Five Seminars** delivered to Executives of **Lexmark** 📅 July 2011  
*Supply chain dynamics and the bullwhip effect, Case studies in the bullwhip effect, Forecasting for the supply chain, Lean supply chains* 📍 Boulder and Lexington, USA
- 🎤 **Research Seminar** to the **Japanese Industrial Management Association** 📅 May 2010  
*Supply chain dynamics and the bullwhip effect* 📍 Toyko, JAPAN
- 🎤 **Research Seminar** to the **Japanese Operational Research Society** 📅 May 2010  
*The bullwhip effect in supply chains* 📍 Toyko, JAPAN
- 🎤 **Research Seminar** to the faculty of the Department of Management Science and Innovation, **University College London** 📅 Sept 2009  
*The bullwhip effect in supply chains* 📍 London, UK
- 🎤 **Research Seminar** to the **LANCS Initiative: Green Logistics Theme** 📅 April 2009  
*Supply chain modeling* 📍 Southampton University, UK
- 🎤 **Research Seminar** to members of the **Welsh Institute of Mathematical and Computer Sciences** 📅 May 2008  
*The bullwhip effect in supply chains* 📍 Cardiff University, UK
- 🎤 **Research Seminar** to the **Centre of Operational Research and Applied Statistics (CORAS)** 📅 March 2008

*Forecasting for inventory management* 📍 Salford University, UK

🎤 **Evening Seminar** to faculty of the **South Wales Operational Research Discussion Society (SWORDS)** 📅 Feb 2008  
*The bullwhip effect in supply chains* 📍 Swansea University, UK

🎤 **Presidents Medal Speech** to the **OR Society Annual Conference** 📅 Sept 2007  
*The bullwhip effect in supply chains* 📍 Edinburgh, UK

🎤 **Seminar** to staff of **Wal-Mart's Global Procurement Office** 📅 July 2006  
*The dynamics of material flow in supply chains* 📍 Shenzhen, CHINA

🎤 **Research Seminar** to the Alumni Society of the **Faculty of Economics** 📅 March 2006  
*The dynamics of material flow in supply chains* 📍 KULeuven, BELGIUM

🎤 **Research Seminar** to the faculty of the **Department of Economics, Econometrics and Finance** 📅 March 2006  
*The dynamics of material flow in supply chains* 📍 Groningen University, HOLLAND

🎤 **Research Seminar** to the faculty of the **School of Management** 📅 Feb 2006  
*The dynamics of material flow in supply chains* 📍 Lancaster University, UK

🎤 **Evening Lecture** to the **Chartered Institute for Logistics and Transport** 📅 Sept 2005  
*The dynamics of material flow in supply chains* 📍 London, UK

🎤 **Research Seminar** to the faculty of **Nottingham University Business School** 📅 Sept 2005  
*Co-ordination of a two-echelon supply chain. Policies and parameters* 📍 Nottingham, UK

🎤 **Invited Lecture** to the students on the M.Sc. in Managing International Operations at **Nottingham University Business School** 📅 Feb 2005  
*Supply chain collaboration: Making sense of the strategy continuum* 📍 Nottingham, UK

🎤 **Invited Presentation** to the **MSOM Multi-Echelon Inventory Special Interest Group Conference** 📅 July 2004  
*Co-ordination of a two-echelon supply chain. Policies and parameters* 📍 Eindhoven, HOLLAND

🎤 **Research Seminar** to the faculty of the **Department of Economics, Econometrics and Finance** 📅 Sept 2003  
*Information sharing in supply chains* 📍 Groningen University, HOLLAND

🎤 **Research Seminar** to the faculty of the **Smeal College of Business** 📅 Sept 2003  
*Information sharing in supply chains* 📍 Penn State University, USA

🎤 **Research Seminar** to the **Systems Engineering and Engineering Management Department** 📅 Nov 2002  
*Information sharing in supply chains* 📍 Chinese University of Hong Kong, USA

🎤 **Plenary Speech, International Conference on Production Research** 📅 July 2001  
*The triple algorithm for solving the dynamic lot sizing problem* 📍 Prague, CZECH REPUBLIC

🎤 **Research Seminar**, to the staff of **Trillion Consulting** 📅 March 2001  
*Vendor managed inventory supply chains* 📍 Boston, USA

🎤 **Research Seminar**, to the faculty of **Helsinki University of Technology** 📅 March 2001  
*Vendor managed inventory supply chains* 📍 Helsinki, FINLAND

🎤 **Two Research Seminars**, to the staff of **Hewlett Packard** 📅 March 1999  
*Vendor managed inventory supply chains* 📍 Palo Alto and Vancouver, USA

#### RESEARCH GRANTS

🏠 **Research Group Funding for the Logistics Systems Dynamics Group** 📅 2018  
*Principal investigator.* Sponsored by Cardiff Business School. £3,000

🏠 **Enhancing Supply Chain Flexibility** 📅 2017

<i>Co-investigator.</i> Sponsored by Yeo Valley Farms, Ref: 513203.	£140,000
<b>⑨ Research Visit to KULeuven, Belgium</b>	📅 2017
<i>Investigator.</i> Sponsored by KULeuven.	£600
<b>⑨ Impact Case Development Fund</b>	📅 2016
<i>Co-investigator.</i> Sponsored by Cardiff Business School.	£5,000
<b>⑨ Research Group Funding for the Logistics Systems Dynamics Group</b>	📅 2016
<i>Principal investigator.</i> Funded by Cardiff Business School.	£3,000
<b>⑨ Travel funds to give a Plenary at the StochMod Conference</b>	📅 2016
<i>Co-investigator.</i> Sponsored by Belgium National Science Foundation.	£1,800
<b>⑨ Research Visit to Arizona State University</b>	📅 2016
<i>Co-investigator.</i> Sponsored by Arizona State University.	\$800
<b>⑨ Research Visit to Cornell University</b>	📅 2016
<i>Principal investigator.</i> Funded by CARBS' International Development Scheme.	£880
<b>⑨ Research visit to NorthWestern University</b>	📅 2016
<i>Principal investigator.</i> Funded by NorthWestern University.	\$600
<b>⑨ Relocation Assistance in Los Angeles</b>	📅 2016
<i>Principal investigator.</i> Funded by University of California, Los Angeles.	\$1000
<b>⑨ Supply Chain Business II</b> Working with Lexmark.	📅 2015
<i>Principal investigator.</i> Sponsored by ERSC Impact Accelerator Fund, Ref: 509700.	£4,467
<b>⑨ Distinguished Visitors Scheme</b> To host visit by Professor Gerard Gaalman of Groningen University, HOLLAND.	📅 2015
<i>Principal investigator.</i> Funded by CARBS' International Development Scheme.	£1,337
<b>⑨ Research Leave Fellowship</b> To spend one year at UCLA working with Professor Chris Tang.	📅 2015
<i>Principal investigator.</i> Funded by Cardiff University Executive Board.	£15,000
<b>⑨ Research Leave Funding</b> To spend one year at UCLA working with Professor Chris Tang.	📅 2015
<i>Principal investigator.</i> Funded by Cardiff Business School Research Leave Scheme.	£3,000
<b>⑨ Opportunities for Operational Improvement at Aberthaw Power Station</b>	📅 2014
<i>Principal investigator.</i> Sponsored by Strategic Insight Programme. Ref CaU CS 4004.	£2,250
<b>⑨ International Visitors Scheme</b> To host Professor Roger Warburton from Boston University.	📅 2014
<i>Principal investigator.</i> Sponsored by Cardiff Business School Research Funding Scheme.	£1,600
<b>⑨ To Design, Develop, and Implement Business and Manufacturing Systems</b> Reid Lifting Limited.	📅 2013
<i>Lead Academic.</i> Sponsored by Technology Strategy Board, Ref KTP009052.	£123,111
<b>⑨ Supply Chain Business</b>	📅 2011
<i>Principal Investigator.</i> Sponsored by Lexmark, Ref: 502470.	£40,000
<b>⑨ Research into the Impact of Information Errors and RFID on the Dynamics and Economic Performance of Supply Chains</b>	📅 2009
<i>Principal Investigator.</i> Sponsored by the Daiwa Anglo-Japanese Foundation, Ref 500249.	£1,000
<b>⑨ Further Funding for Research into the Impact of Information Errors and RFID on the Dynamics and Economic Performance of Supply Chains</b>	📅 2009
<i>Principal Investigator.</i> Sponsored by Cardiff University Overseas Travel Fellowship Scheme.	£2,500
<b>⑨ Decision Models for Dynamic Supply Chains Under Risk</b> Joint Project with the Logistics/SCM Research Group of the University of Aarhus School of Business, Denmark.	📅 2007
<i>Participant.</i> Sponsored by Danish Social Science Research Council (FSE).	€3M
<b>⑨ Forecasting and Inventory Management: Bridging the Gap</b> Joint Project	

- with the Centre for Operational Research and Applied Statistics, University of Salford.  2007  
*Participant*. Sponsored by the EPSRC, ref EP/F012632/1. £50,000
- ⑨ Securing the UK Food Supply: The New Dynamic** Joint project with the Lean Enterprise Research Centre, Cardiff University.  2006  
*Co-investigator*. Sponsored jointly by the Cardiff University Innovative Manufacturing Research Centre and Chatham House. £40,000
- ⑨ To Achieve Significant Improvement in Machine Reliability, Productivity and Systems Performance Through Developing a Company-wide TPM System** Joint project with the Lean Enterprise Research Centre, Cardiff University.  2006  
*Co-Investigator*. Sponsored by the DTI/ EPSRC, Ref KSMC908. £92,696
- ⑨ Micro Tooling for Non-silicon Micro Components** Joint project with the Mechanical Engineering Centre and the Lean Enterprise Research Centre, Cardiff University.  2005  
*Co-investigator*. Sponsored by EPSRC, Ref GR/S75505. £619,376
- ⑨ Micro Tooling for Non-silicon Micro Components** Joint project with the Mechanical Engineering Centre and the Lean Enterprise Research Centre, Cardiff University.  2005  
*Co-investigator*. Additional Industrial Support. £100,000
- ⑨ European Master Degree in Logistics** Joint project with Linköping University, SWEDEN, Ljubljana University, SLOVENIA and Cartagena University, SPAIN.  2004  
*Co-investigator*. Sponsored by Socrates, Ref 63651IC120002-1. £15,242
- ⑨ The Optimality of Replenishment Rules**  2004  
*Principal Investigator*. Funded by Cardiff University Research Travel Scheme £2890
- ⑨ Understanding Potential Synergies in Manufacturing Supply Chains between Europe and India (USER-MIND)**  2002  
*Co-investigator*. Sponsored by EuropeAid, Ref ASI B7-301/71 551(3152-097). £67,000
- ⑨ Researching a Unified Theory of Business Dynamics**  2002  
*Principal investigator*. Cardiff Young Researchers Grant awarded by the Senate of the University of Wales £8,250
- ⑨ Supply Chain Equalization and Information Resource Centre**  2002  
*Co-investigator*. Sponsored by Leeds University and the Faraday Packaging Partnership. £13,108
- ⑨ Continuous Replenishment Alignment Project**  2001  
*Principal investigator*. Sponsored by Tesco. £14,160
- ⑨ European University Research and Operations Network in Logistics**  2000  
*Co-investigator*. Sponsored by the EPSRC, Grant No. GR/N66162/01. £63,057
- ⑨ Integrating Transport and e-commerce in Logistics Supply Chains**  2000  
*Co-investigator*. Sponsored by the EPSRC, Grant No. AD 9/64/127. £282,712
- ⑨ Distribution Network Design**  2000  
*Co-investigator*. Sponsored by Wiremold. £8,924
- ⑨ Quick Scan Review of Manufacturing and Supply Chain Activities**  2000  
*Co-investigator*. Sponsored by Tomeo Tritec. £4,190
- ⑨ Research Application of the Quick Scan to the Utility Sector**  2000  
*Co-investigator*. Sponsored by Bristol Water. £12,090
- ⑨ Identification of Optimal Manufacturing Systems**  2000  
*Co-investigator*. Sponsored by Harmon Motive. £9,500









CURRENT  
EDITORIAL  
DUTIES

 **Associate Editor**  
*IMA Journal of Management Mathematics (IMA-MM)*





 2012-



Area: Control Theory, Inventory and Supply Chain Optimization, Production Optimization.

-  **Editorial Review Board**  2011-  
*Journal of Business Logistics (JBL)*
-  **Editorial Board Member**  2010-  
*European Journal of Operational Research (EJOR)*
-  **Editorial Board Member**  2009-  
*International Journal of Production Economics (IJPE)*
-  **Editorial Board Member**  2008-  
*International Journal of Applied Management Science (IJAMS)*

PREVIOUS  
EDITORIAL  
DUTIES

-  **Associate Editor**  2009-2018  
*European Journal of Industrial Engineering (EJIE)*. Area: Supply Chain Management
-  **Editorial Board Member**  2010-2014  
*Open Management Journal (OMJ)*

SPECIAL ISSUE  
EDITORSHIPS

-  **Uncertainty in Operations and Supply Chain Management.**  2021-2022  
*Journal of Operations Management*, with J. Holmström, B. Lawson, F. Pil and C.S. Tang.
-  **Innovative Service and Manufacturing Design.**  2016  
*International Journal of Production Economics*, with Y.H. Lun, M. Quaddus and M.M. Naim.
-  **Papers from the Sixteenth International Working Seminar on Production Economics**  2010  
*International Journal of Production Economics*, with M. Bogataj and O. Tang.
-  **Papers from the 19th International Conference on Production Research.**  2009  
*International Journal of Logistics: Research and Applications*.

CONFERENCE  
ORGANIZATION

-  **Scientific Committee Member**  July 2022  
*6th World Conference on Production & Operations Management (POM)*  Nara, JAPAN
-  **Scientific Committee Member**  Sept 2016  
*5th World Conference on Production & Operations Management (POM)*  Havana, CUBA
-  **Scientific Committee Member**  2009-2022  
*European Operations Management Association (EurOMA) Annual Conference*  Various
-  **International Advisory Committee Member**  2009-2014  
*International Congress on Logistics & Supply Chain Management Systems*  Various
-  **International Scientific Committee Member**  2015-2019  
*International Conference on Industrial Engineering and Systems Management*  Various
-  **Faculty Advisory Committee Member**  2014-2015  
*Undergraduate Project Management Curriculum and Resources Project for the Project Management Institute*  Boston, USA
-  **Scientific Committee Member**  2016  
*3rd International Workshop on Transportation and Supply Chain Engineering (IWTSC)*  Rabat, MOROCCO
-  **Committee Member**  2016-2019

	<i>South Wales Operational Research Discussion Society (SWORDS)</i>	📍 Cardiff, UK
	🗨 <b>Scientific Committee Member</b>	📅 2017
	<i>Special Session on “Supply Chain Management &amp; Finance: Emerging Models for Coordination and Governance” at the 24th International Conference on Production Research</i>	📍 Poznan, POLAND
	🗨 <b>Member of the Technical Committee</b>	📅 2018, 2020
	<i>IEEE International Technology Management, Operations and Decisions Conference</i>	📍 Marrakech, MOROCCO
	🗨 <b>Member of the International Programme Committee</b>	📅 2019-2022
	<i>International Federation for Automatic Control Conference on Manufacturing Modeling, Management and Control</i>	📍 Various
PROFESSIONAL MEMBERSHIPS	🏛 Member of the <b>Institute for Operations Research and the Management Sciences</b>	
	🏛 Member of the <b>Production and Operations Management Society</b>	
	🏛 Member of the <b>International Society for Inventory Research</b>	
	🏛 Committee member of the <b>South Wales Operational Research Discussion Society (until 2019)</b>	
	🏛 Technical Committee TC5.2 Member <b>International Federation of Automatic Control</b>	
RESEARCH EVALUATIONS	⚖ <b>Fonds National de al Recherche, Luxembourg.</b>	📅 2020
	⚖ <b>Elwood S. Buffa Doctoral Dissertation Award</b> at the 2018 Decision Sciences Institute Annual Conference in Chicago, USA.	📅 2018
	⚖ <b>ESRC Grant Application, Research Councils UK (RCUK).</b>	📅 2016
	⚖ <b>Academy of Finland.</b>	📅 2014
	⚖ <b>Fonds National de al Recherche, Luxembourg.</b>	📅 2014
	⚖ <b>Member of the Selection Committee for the LaLonde Best Paper of 2013 published in the Journal of Business Logistics.</b>	📅 2014
	⚖ <b>Leverhulme Grant Application.</b>	📅 2014
	⚖ <b>Research &amp; Innovation Affairs Department, Sultan Qaboos University, Sultanate of Oman.</b>	📅 2013
	⚖ <b>National Fund for Scientific and Technological Development, Chilean Government Commission for Scientific and Technological Development.</b>	📅 2012
REVIEWING ASSIGNMENTS	🗨 Applied Mathematical Modelling   🗨 Applied Mathematics and Computation   🗨 Computer Integrated Manufacturing   🗨 Computers & Industrial Engineering   🗨 Computers & Operations Research   🗨 Critical Finance Review   🗨 European Journal of Marketing   🗨 European Journal of Operational Research   🗨 IEEE Transactions on Automation Science & Engineering   🗨 IEEE Transactions on Systems, Manufacturing & Cybernetics   🗨 IIE Transactions   🗨 IMA Journal of Management Mathematics   🗨 International Journal of Applied Management Science   🗨 International Journal of Forecasting   🗨 International Journal of Information Technology & Decision Making   🗨 International Journal of Logistics Systems and Management   🗨 International Journal of Logistics: Research & Applications   🗨 International Journal of Operations & Production Management   🗨 International Journal of Production Economics   🗨 International Journal of Production Research   🗨 International Journal of Quality and Reliability Management   🗨 International Journal of Risk Assessment & Management   🗨 International Transactions in Operational Research   🗨 Journal of Manufacturing Technol-	

ogy Management ☹ Journal of Operations Management ☹ Journal of Purchasing & Supply Management ☹ Journal of the Operations Research Society ☹ Management Science ☹ OMEGA: International Journal of Management Science ☹ Operations Research ☹ Manufacturing and Service Operations Management ☹ Production and Operations Management ☹ Supply Chain Management: An International Journal ☹ Systems Research and Behavioural Science ☹ The Engineering Economist ☹ Transactions of the Institute of Industrial Engineers ☹ Transport Research Part E ☹ Several book publishers ☹ Amongst many others.

PH.D.  
SUPERVISION

🎓 <b>Dr Adel Alamri</b> <i>Imperfect quality items in inventory and supply chain management</i>	📅 April 2018 <b>Third supervisor</b>
🎓 <b>Dr Carl Philip Hedenstierna</b> <i>Staggered deliveries in production and inventory control</i>	📅 March 2016 <b>Lead supervisor</b>
🎓 <b>Dr Qinyun Li</b> <i>A systems dynamics perspective of forecasting in supply chains</i>	📅 Jan 2015 <b>Lead supervisor</b>
🎓 <b>Dr Virginia Marques</b> <i>Designing supply chains resilient to non-linear system dynamics</i>	📅 Feb 2014 <b>Second supervisor</b>
🎓 <b>Dr Pairach Piboonrungrroj</b> <i>Supply chain collaboration: Impacts and mediation on firm performance</i>	📅 Jan 2013 <b>Lead supervisor</b>
🎓 <b>Po-Ngarm Ratanachote</b> <i>Distribution network dynamics with correlated demands</i>	📅 June 2011 <b>Lead supervisor</b>
🎓 <b>Dr Jon Gosling</b> <i>Flexibility strategies for engineer-to-order construction supply chains</i>	📅 May 2011 <b>Second supervisor</b>
🎓 <b>Dr Vinaya Shakla</b> <i>Rogue seasonality detection in supply chains</i>	📅 April 2010 <b>Second supervisor</b>
🎓 <b>Dr Noorfa Hazlinna Mustaffa</b> <i>Integrating inventory and transport optimization in multi-retailer supply chains</i>	📅 April 2009 <b>Lead supervisor</b>
🎓 <b>Dr Ralph Barker</b> <i>Waste assessment and application of improvement techniques in UK private house building supply chains</i>	📅 May 2006 <b>Third supervisor</b>
🎓 <b>Dr Andrew Potter</b> <i>The impact of supply chain dynamics on transport</i>	📅 Nov 2005 <b>Third supervisor</b>
🎓 <b>Dr Takamichi Hosoda</b> <i>The principles governing the dynamics of supply chains</i>	📅 Sept 2005 <b>Lead supervisor</b>
🎓 <b>Dr Gilbert Aryee</b> <i>The impact of technology and organizational maturity on supply chain integration performance: A UK perspective</i>	📅 Jan 2005 <b>Third supervisor</b>

M.PHIL.  
SUPERVISION

🎓 <b>Nicole Ayiomamitou, M.Phil</b> <i>Improving forecasting capabilities in the 3PL Industry</i>	📅 March 2017 <b>Second supervisor</b>
🎓 <b>Ben Worrel, M.Phil</b> <i>Design, development, implementation and evaluation of a total productive maintenance system on a toroidal core manufacturing line</i>	📅 May 2011 <b>Lead supervisor</b>



EXTERNAL  
ACADEMIC  
APPOINTMENTS



🏛 <b>Saïd Business School, Oxford University, UK</b> <i>External examiner for the MBA course.</i>	📅 2020-2023
🏛 <b>Kedge Business School, Universit de Bordeaux, FRANCE</b>	📅 Sept 2014

*Committee member* for the Habilitation à Diriger des Recherches (HDR) defense by Professor Zeid Mohamed Babai.




 **Lancaster School of Management, UK**  2011-2014  
*External examiner* for the M.Res. in Management Science, M.Sc. in Operational Research and Management Science, M.Sc. Logistics and Supply Chain Management, M.Sc. in Management Science and Marketing Analytics.




 **Brighton University, UK**  2009-2012  
*External examiner* for the M.Sc. in Business Process Management.




 **Aston Business School, UK**  2007-2011  
*External examiner* for the Executive MBA and various M.Sc. programmes.




 **Greenwich University Business School, UK**  May 2006  
*External Panel Member* on the review of the MA in e-Logistics and Supply Chain Management program and the MA in Project Management and Supply Chain program.




EXTERNAL PH.D. EXAMINATIONS

 **Dr Hafizah Binti Zulkipli**  Jan 2020  
*External examiner*  University of Southampton, UK


 **Dr D Bijulal**  Jan 2011  
*External examiner*  Indian Institute of Technology, Bombay, INDIA


 **Dr Robert Boute**  Dec 2006  
*External member of the PhD advisory committee*  KULeuven, BELGIUM


 **Dr Francisco Campuzano Bolarin**  April 2006  
*External examiner*  Universidad Politecnica De Valencia, SPAIN


 **Dr Felipe A. Villegas**  May 2005  
*External examiner*  Manchester Business School, UK


JOURNAL PUBLICATIONS


 [J100] Li, Q., Gaalman, G. and Disney, S.M., (2023), On the equivalence of the proportional and damped trend order-up-to policies: An eigenvalue analysis. *International Journal of Production Economics*, 265, 109005. DOI: 10.1016/j.ijpe.2023.109005.


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 [J98] Rostami-Tabar, B. and Disney, S.M., (2023), On the order-up-to policy with intermittent integer demand and logically consistent forecasts. *International Journal of Production Economics*, 257, 108763, DOI: 10.1016/j.ijpe.2022.108763.

 [J97] Gijsbrechts, J., Boute, R., Disney, S.M. and Van Meigham, J., (2023), Volume flexibility at responsive suppliers in reshoring decisions: Analysis of a dual sourcing inventory model. Forthcoming in *Production and Operations Management*, DOI: 10.1111/poms.13719.

 [J96] Wang, X., Disney, S.M., and Ponte, B., (2023), On the stationary stochastic response of an order-constrained inventory system. *European Journal of Operational Research*, 304 (2), 543-557. DOI: 10.1016/j.ejor.2022.04.020.

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 [J94] Hosoda, T., Disney, S.M. and Zhou, L., (2022), The yield rate paradox in closed-loop supply chains. *International Journal of Production Economics*, 239, 108187, DOI: 10.1016/j.ijpe.2021.108187.

 [J93] Boute, R., Disney, S.M., Gijsbrechts, J. and Van Meigham, J., (2022), Dual sourcing and

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- [J78] Wang, X. and Disney, S.M., (2016), The bullwhip effect: progress, trends and directions. *European Journal of Operational Research*, 250 (3), 691-701. DOI: 10.1016/j.ejor.2015.07.022.
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TEACHING  
EXPERIENCE AT  
UNIVERSITY OF  
EXETER BUSINESS  
SCHOOL

 **B.Sc., Operations Management module to 2nd year undergraduates.** *Subjects:* Introduction to Operations Management. Process Choice and Process Mapping. Project Management. Decision Making under Uncertainty. Causal Loop Diagrams. Value Stream Mapping. Layouts. Just in Time. Inventory Management. Theory of Constraints. Quality Management. Service Perspectives. Planning and Control.


 **B.Sc., Operations Analytics module to 3rd year undergraduates.** *Subjects:* Queuing theory. Linear programming. Shortest path analysis. Minimum spanning trees.


 **M.Sc. in Business Analytics, Maths and Statistics for Business Analytics module.** *Subjects:* Introduction to Statistics. R and R-studio. Probability. Venn Diagrams. Counting Rules. Discrete and Continuous Distributions. Point Estimation. Sampling Distributions. Time Series Analysis. Intermittent demand forecasting. Confidence Interval Estimations. Activity Sampling. Linear and Multiple Regression. Hypothesis Testing.


 **M.Sc. in Business Analytics and M.Sc. in Global Operations Management, Supply Chain Analytics module.** *Subjects:* Dynamic value stream mapping. Scheduling strategies: Pull, Level, Forecast, Batch, Order-up-to, and Proportional order-up-to. Forecasting for supply chains. Production planning. Economic order quantity, Economic production quantity. Heijunka. EARS analysis. MRP nervousness.


 **M.Sc. in Entrepreneurship and Innovation Management and M.Sc. in Global Operations Management, Operations and Project Management module.** *Subjects:* Transformation model. Process mapping. Process choice. Process layouts. Inventory management. Newsvendor model. Supply chain collaboration. Make to order and 3D printing. Global dual sourcing with SpeedFactories. Work breakdown structure. Project network diagrams. Project crashing and Gantt Charts. Decision making under uncertainty. Breakeven analysis. Earned value management. The last planner.

TEACHING  
EXPERIENCE AT  
CARDIFF BUSINESS  
SCHOOL

 **MBA, Operation Analysis module in the Full-time, Executive and Modular MBA courses.** *Subjects:* Supply Chain Management. Optimization and Linear Programming. Performance Measurement and Inventory Management. Activity Sampling. Process Mapping. Benchmarking. Project Management. Value Stream Mapping. Forecasting. Production Planning. Materials Requirement Planning. MRP Nervousness.

 **M.Sc. in International Transport, Logistics and Transport Modeling module.** *Subjects:* Soft Systems Analysis. Beer Game. Forecasting. Bullwhip. e-commerce. Supply Chain Management. Supply Chain Collaboration. Project Management. Queuing Theory. Linear Programming. Square Root Law for Inventory and Bullwhip. Distribution Network Design. Monte Carlo Simulation. Discrete Event Simulation. Project Management. Shortest Path Algorithms.

 **M.Sc. in Logistics and Operations Management, Operations Management module.** *Subjects:* Personal Time Management. Process Choice. Nagare Lines. Net Present Value and the Internal Rate of Return. Break-even Analysis. Escapable and In-escapable Costs. Make V Buy decisions. ABC Analysis. EOQ and EPQ. Re-order Point Model. Economic Stock-out Probability, Service Levels. Quality, Quality Functional Deployment and the House of Quality. Collaboration in 3D Printing Make-To-Order Supply Chains. Supply Chain Contracts. Dual Sourcing.

 **M.Sc. in Logistics and Operations Management, Operations Analytics module.** *Subjects:* Probability, Estimation and Confidence Intervals. Box plots. Forecasting with Simple Methods. Naïve, Moving Average and Simple Exponential Smoothing. Performance Measurement,

Accuracy and Implications. Forecasting with Trends, Holt's Method and Damped Trend. Forecasting for Intermittent Demand, Croston's Methods and the Syntetos-Boylan Algorithm. Forecasting and Inventory Control, Newsvendor Model and Buy-back Contracts. Forecasting and Supply Chain Management. Order-up-to Policy. Forecasting, Bullwhip, and MRP Nervousness. Proportional order-up-to Policy. ARIMA Modeling and Conditional Expectation. Fill-rates and Availability.

🎓 **M.Sc. in Logistics and Operations Management, Project Management module.** *Subjects:* Work Breakdown Structure. Project Scope and Definition. Project Network Diagrams. Gantt Charts. Earned Value Management. Decision Making Under Uncertainty. Economics of Projects. Case Studies in Projects. Project Crashing. The Last Planner. Ethics and Leadership.

🎓 **M.Sc. in Lean Operations, Lean Scheduling and Materials Management module.** *Subjects:* Heijunka Board. Queuing Theory. MRP. Kanban Systems. Forecasting. Inventory Management. Waterspiders. Mura, Muda and Muri.

🎓 **DBA, Operations Management module..** *Subjects:* History of OM. Process Choice. Process Improvement. Break-even Analysis. Inventory. Production Planning and Scheduling. Forecasting. Linear Programming. Project Management. Supply Chain Management. Bullwhip. Time Management. Quality Functional Deployment.

TEACHING AT THE  
CARDIFF SCHOOL  
OF MATHEMATICS

🎓 **M.Sc. Applied Operational Research, Supply Chain Modeling module.** *Subjects:* Bullwhip. Beer Game. Inventory Management. Customer Service Metrics. Forecasting. Spreadsheet Modeling. z-transforms. Control Theory. Stability. Supply Collaboration Strategies. Process Modeling and Mapping.

TEACHING  
EXPERIENCE AT  
BOSTON  
UNIVERSITY

🎓 **M.S. in Administrative Studies, Global Services and Supply Chain Management module.** *Subjects:* Beer Game. Inventory Management. Economic Order Quantity. Process Mapping. Value Stream Mapping. Bullwhip. Supply Chain Strategy. Distribution Network Design. Supply Chain Ethics. Global Outsourcing. Order-Up-To Policy. Spreadsheet Simulation. Transport and Warehousing. INCO Terms. Center of Gravity Modeling. Shortest Path Algorithm. Decoupling Point Analysis. Supply Chain Collaboration.

🎓 **BA Management Studies, Project Management module.** *Subjects:* Project Strategy. Charter and Scope. Gantt Charts. Project Network Diagrams. Break-even Analysis. Activity Sampling. Net Present Value. Work Breakdown Structure. Earned Value. Decision Trees. Decision Making Under Uncertainty. Ethics and Team Work. Process Mapping.

🎓 **MS Management, Quantitative and Qualitative Decision Making module.** *Subjects:* Decision Theory and Values. Decision Trees and Pay-off. Sociological, Political & Psychological Aspects. Bounded Rationality. Satisficing Behavior. Descriptive Statistics. Group Decision Making. Group Think. Delphi Studies. Bayesian Conditional Probability, Chi Square and Nonparametric Testing. Decision Making in a Lean Manufacturing Environment. Decision Making in a Supply Chain.

EXECUTIVE  
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🎓 **Setting the Cadence of Your Pacemaker.** A one-day executive education course covering: Dynamic value stream mapping, Replenishment strategy selection, Forecasting, Planning book, Shop floor communication, and Supplier MRP. Delivered to ACME Automotive Industry of India in June 2017. A two-day version of this course was given to Yeo Valley in September 2017. This course has also been delivered to other companies who wish to remain anonymous.

🎓 **Executive MBA and Modular MBA, Operations Management module.** *Subjects:* Supply Chain Management. Optimization. Linear Programming. Performance Measurement and Inventory Management. Activity Sampling. Process Mapping. Benchmarking. Project Management.

🎓 **UK Intellectual Property Office DBA, Operations Management module.** *Subjects:* Process Mapping and Visualization. Process choice. Process Improvement. Economics of Operations. Inventory. Linear Programming. Project Management. Supply Chain Management.

Bullwhip. Forecasting. Quality. Continuous Improvement and Quality Functional Deployment.