	 Cardiff Business School,
Bahman Rostami-Tabar	Cardiff University, Wales, Great Britain
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Education and qualifications

FHEA – Fellow of the Higher Education Academy	Higher Education Academy	2017
Post Graduate Certificate of Higher Education	Coventry University	2016
Ph.D. in Industrial Engineering	University of Bordeaux, France	2014
M.Sc. in Information Systems	ECE Paris , France	2010
M.Sc. in Industrial Engineering	Tarbiat Modares University, Iran	2008
B.Sc.(Hons) in Industrial Engineering	K.N.Toosi University of Technology, Iran	2004

Fellowships

- ▶ Public Value Fellow, Cardiff Business School, 2020.
- ► Associate Fellow of NHS-R community, 2021.

Employment history

- 2021- Reader (Associate Professor), Cardiff Business School, Cardiff University, Cardiff, UK
- 2019-2021 Senior Lecturer, Cardiff Business School, Cardiff University, Cardiff, UK
- 2016-2019 Lecturer, Cardiff Business School, Cardiff University, Cardiff, UK
- 2015–2016 Lecturer, School of strategy and Leadership, Coventry University, Coventry, UK
- 2014–2015 **Post-doc**, Industrial Engineering Lab, Ecole Central-Supelec, Paris, France

Academic and leadership roles

- ▶ Director, Logistics and Systems Dynamics Research Group, Cardiff Business School 2021- Present.
- ▶ Member, Shadow Management Board, Cardiff Business School 2020-2021.

Awards and honours

- 2013 Best Paper Award, IFAC, Manufacturing Modelling, Management and Control conference.
- 2017 Best Paper Award, Industrial Engineering and Operations Management Society, International Symposium
- 2017 Nomination for Enriching Student Life, Cardiff University
- 2018 Excellence in International Activities, Cardiff University
- 2020 Innovation in Teaching and Learning award, Cardiff Business School
- 2020 Scholarship for the Mini-Certificate in Real World Risk, Real World Risk Institute
- 2021 Leaders Innovation and Engagemen, Cardiff Business School

Society leadership

- ► Founder and chair, Forecasting for Social Good (F4SG)-IIF, International Institute of Forecasters, 2020 Present.
- ▶ Program Committee Board, Wales Modelling Collaborative , NHS Wales, 2019 Present.

Society memberships

- ► Member, International Institute of Forecasters
- ► Member, OR Society
- Member, Division of Population Medicine
- Member, Clinical Innovation MDT
- Member, South Wales Operational Research Discussion Society

Advisory boards

- Scientific adviser, Intelligent Forecasting Competition, United States Agency for International Development (USAID), 2021 – Present.
- Scientific and Cultural Committee, Kurdish Institute of Paris, 2021 Present.

Grants

I have acquire	ed (in most cases jointly) \$1.0 million in research & engagement grants since 2018.	
2018	Rostami-Tabar, Syntetos. "Agenda setting event on forecasting for social good". Funding from Cardiff Business School	\$6,500
2018-2018	Rostami-Tabar. "Forecasting for social good". Funding from International Institute of Forecasters	\$5,000
2018-2019	Rostami-Tabar, Syntetos. "Forecasting for social good in India". Funding from Global Chal- lenge Research Fund	\$10,800
2018-2022	Rostami-Tabar. "Democratize forecasting". Funding from International Institute of Forecasters	\$60,000
2019-2020	Rostami-Tabar. "Flow management in the emergency care.". <i>Funding from Global Challenge Research Fund</i>	\$32,200
2019-2020	Rostami-Tabar. "Public Value Fellowship". Funding from Cardiff Business School	\$3,260
2019-2020	Rostami-Tabar. "Enhancing forecasting capabilities of the International Committee of the Red Cross". <i>Funding from Cardiff Business School</i>	\$2,600
2019-2021	Rostami-Tabar, Soroka, Ramjaun, Goltsos, Harris. "BCB - Efficient and Resilient Manufacturing Systems and Supply Chains". <i>Funding from ASTUTE EAST</i>	\$172,000
2019-2023	Rostami-Tabar et al "Promoting joint analytical problem-solving building on the Welsh Modelling Collaborative". <i>Funding from Health Foundation</i>	\$391,000
2020-2021	Rostami-Tabar, Soroka, Goltsos, Syntetos, Eyers. "Reid lifting forecasting and inventory control". <i>Funding from ASTUTE EAST</i>	\$127,800
2021-2022	Rostami-Tabar, Ali. "Forecasting for social good". Funding from University of East London	\$3,900
2022-2019	Rostami-Tabar. "A workshop on Epidemic Forecasting". Funding from Global Challenge Research Fund	\$13,000
2022-2022	Rostami-Tabar. "Developing new modelling and forecasting methodologies for Emergency Medical Services". <i>Funding from Cardiff Business School</i>	\$4,950
2022-2022	Rostami-Tabar, Goltsos, Syntetos. "Forecasting for workforce scheduling". Funding from DSV: Global Transport and Logistics	\$19,550
2022-2023	Rostami-Tabar, Raymond. "Identifying common typologies of harm in forecasting systems". Funding from University of Notre Dame-IBM	\$15,000

Research

- I have authored 29 papers, chapters or books on forecasting, analytics and supply chain topics (listed in the following sections).
- My research interests includes forecasting, predictive modeling, business analytics, statistical and machine learning, and their links to policy, decision making and planning.
- My current research involves forecasting and analysis of large collections of data in various areas including vaccine distribution, supply chains of medical items, supply chain of contraceptive products, patient flow in emergency departements, trauma network and ambulance services and demand of inpatiend and community mental health services.
- I have been working with various national and international organisations including the International Committee of the Red Cross (ICRC), United States Agency for International Development (USAID), National Health Service (NHS) UK, Welsh Ambulance Service Trust (WAST), John Snow, Inc (JSI) and DSV: Global Transport and Logistics.
- I currently supervise five PhD students. I have previously supervised an additional 15 Master students with industry projects.

Ph.D. Supervision

- Zihao Wang, 2020 2023, Lead supervisor, Patient flow forecasting/modelling numbers in Major Trauma Network (MTN) Wales, in collaboration with Major Trauma Network Wales.
- Venessa Wells, 2020 2025, Third supervisor, Valuing Value: how evaluative judgements are perceived, understood, and practised by multiple actors people in not-for-profit leadership positions and information providers.
- Mingzhi Shi, 2021 2024, Lead supervisor, Improving the unscheduled planning in urgent and emergency care: Using predictive modeling to deliver quality care, in collaboration with Welsh Ambulance Service Trust.

- Ruikai Sun, 2021 2024, Lead supervisor, Forecast and optimization of container port carbon emission based on combined models.
- Harsha Charma, 2022 2026, Lead supervisor, Forecasting improvements for better reproductive health and family planning operations in global health supply chains, in collaboration with United States Agency for International Development.

PhD thesis

1. Rostami-Tabar, B. (2014). ARIMA demand forecasting by aggregation [PhD thesis]. Bordeaux 1.

Books

1. Kolassa, S, Rostami-Tabar, B, & Siemsen, E. (2022). *Managerial demand forecasting* (2nd ed). CRC Press. https://dfm.netlify.app/

Refereed research papers

- 1. Rostami-Tabar, B, Babai, MZ, Syntetos, A, & Ducq, Y. (2013). Demand forecasting by temporal aggregation. *Naval Research Logistics (NRL)*, 60(6), 479–498.
- 2. Bahman Rostami-Tabar, ASandYvesD, Mohamed Zied Babai. (2014). A note on the forecast performance of temporal aggregation. *Naval Research Logistics (NRL)*.
- 3. Rostami-Tabar, B, Babai, MZ, Ducq, Y, & Syntetos, A. (2015). Non-stationary demand forecasting by crosssectional aggregation. *International Journal of Production Economics*, 170, 297–309.
- 4. Emrouznejad, A, Rostami-Tabar, B, & Petridis, K. (2016). A novel ranking procedure for forecasting approaches using data envelopment analysis. *Technological Forecasting and Social Change*, 111, 235–243.
- 5. Kourentzes, N, Rostami-Tabar, B, & Barrow, DK. (2017). Demand forecasting by temporal aggregation: Using optimal or multiple aggregation levels? *Journal of Business Research*, 78, 1–9.
- 6. Rostami-Tabar, B, Babai, MZ, Ali, M, & Boylan, JE. (2019). The impact of temporal aggregation on supply chains with ARMA (1, 1) demand processes. *European Journal of Operational Research*, 273(3), 920–932.
- 7. Rostami-Tabar, B, & Ziel, F. (2020). Anticipating special events in emergency department forecasting. *International Journal of Forecasting*.
- 8. Rostami-Tabar, B, Ali, MM, Hong, T, Hyndman, RJ, Porter, MD, & Syntetos, A. (2021). Forecasting for social good. *International Journal of Forecasting*.
- 9. Rostami-Tabar, B, & Rendon-Sanchez, JF. (2021). Forecasting COVID-19 daily cases using phone call data. *Applied Soft Computing*, 100, 106932.
- 10. Mircetic, D, Rostami-Tabar, B, Nikolicic, S, & Maslaric, M. (2021). Forecasting hierarchical time series in supply chains: An empirical investigation. *International Journal of Production Research*, 1–20.
- 11. Babai, MZ, Boylan, JE, & Rostami-Tabar, B. (2021). Demand forecasting in supply chains: A review of aggregation and hierarchical approaches. *International Journal of Production Research*, 1–25.
- 12. Petropoulos, F, Apiletti, D, Assimakopoulos, V, Babai, MZ, Barrow, DK, Taieb, SB, Bergmeir, C, Bessa, RJ, Bijak, J, Boylan, JE, & others. (2022). Forecasting: Theory and practice. *International Journal of Forecasting*.

Book chapters

- 1. Rostami-Tabar, B. (2021). Business forecasting in developing countries. In L Tashman, M Gilliland, & U Sglavo (Eds.), *Business forecasting: The emerging role of artificial intelligence and machine learning* (p. 382). John Wiley & Sons.
- 2. Rostami-Tabar, B, & Boylan, JE. (2022). Forecasting and its beneficiaries. In Handbook of operational research.

Papers in refereed conference proceedings

- 1. Amin-Naseri, MR, & Tabar, BR. (2008). Neural network approach to lumpy demand forecasting for spare parts in process industries. 2008 International Conference on Computer and Communication Engineering, 1378–1382.
- 2. Nasiri Pour, A, Rostami-Tabar, B, & Rahimzadeh, A. (2008). A hybrid neural network and traditional approach for forecasting lumpy demand. *Proceedings of the World Academy of Science, Engineering and Technology*, 2.
- 3. Tabar, BR, Ducq, Y, Babai, MZ, & Syntetos, A. (2012). FORECASTING AUTOREGRESSIVE DEMANDS WITH TEMPO-RAL AGGREGATION. 9th International Conference on Modeling, Optimization & SIMulation.
- 4. Rostami Tabar, B, Babai, MZ, Syntetos, A, & Ducq, Y. (2013). The impact of temporal aggregation on demand forecasting of ARMA(1, 1) process: Theoretical analysis. *Manufacturing Modelling*, *Management*, *and Control*, 1696–1701.

- 5. Rostami-Tabar, B, Babai, M, Syntetos, A, & Ducq, Y. (2013). Forecasting aggregate ARMA (1, 1) demands: Theoretical analysis of top-down versus bottom-up. *Proceedings of 2013 International Conference on Industrial Engineering and Systems Management (IESM)*, 1–8.
- 6. Rostami-Tabar, B, & Sahin, E. (2015). The impact of advance demand information on the performance of production/inventory systems. *IFAC-PapersOnLine*, 48, 1744–1749.
- 7. Rostami-Tabar, B, Babai, MZ, Ali, M, & Boylan, JE. (2016). On the performance of temporal demand aggregation when optimal forecasting is used. *International Conference on Information Systems, Logistics and Supply Chain.*

Working papers (submitted)

- 1. Abolghasemi, M, Rostami-Tabar, B, & Syntetos, A. (2021). The value of point of sales information in upstream supply chain forecasting: An empirical investigation. In *Under Review in International Journal of Production Research* [Working Paper]. https://arxiv.org/abs/2201.10555
- 2. Gartner, D, Viana, J, Rostami-Tabar, B, Pförringer, D, & Gönther, E. (2021). Challenging the throwaway culture in hospitals: Scheduling the mix of reusable and single-use bronchoscopes. In *Under Review in Journal of the Operational Research Society* [Working Paper].
- 3. Rostami-Tabar, B, Babai, MZ, & Syntetos, A. (2021). To aggregate or not to aggregate: Forecasting of finite autocorrelated demand. In *Under Review in Journal of the Operational Research Society* [Working Paper]. https://arxiv.org/abs/2103.16310
- 4. Rostami-Tabar, B, Arora, S, Goltsos, T, & Rendon-Sanchez, J. (2022). Probabilistic forecasting of daily COVID-19 local hospitalisations. In *Under Review in IMA Journal of Management Mathematics* [Working Paper].
- 5. Rostami-Tabar, B, Browell, J, & Svetunkov, I. (2022). Probabilistic forecasting of hourly emergency department arrivals. In *Under Review in The American Journal of Emergency Medicine* [Working Paper].
- 6. Rostami-Tabar, B, & Disney, S. (2022). On the order-up-to policy with intermittent integer demand and coherent forecasts. In *Under Review in International Journal of Production Economics* [Working Paper].

Conference presentations

- ► Forecasting for social good, 2nd Biennial International Workshop and Conference on Economic and Social Goods, Online, June 2021.
- ► Forecasting for social good, International Symposium on Forecasting, online, Online, June 2021.
- The effect of data characteristics on the effectiveness of temporal aggregation, 16-19 June 2019, International Symposium on Forecasting, Thessaloniki, Greece.
- Anticipating the impact of special events on the Emergency Department forecasting, 16-19 June 2019, ISF, Thessaloniki, Greece.
- > Overlapping vs. non-overlapping temporal aggregation, 22-25 June 2017, Cairns, Australia.
- ► Using Data Envelopment Analysis for ranking forecasting approaches, 06-10 Sep. 2016, Havana, Cuba.
- > Overlapping vs. non-overlapping temporal aggregation, 06-09 May 2016, Orlando FL, USA.
- ► On the performance of temporal demand aggregation when optimal forecasting is used, IIF Workshop on Supply Chain Forecasting for Operations, 28-29 June 2016, Lancaster University, UK.
- Sales Forecasting Models: An Application to the Automobile Sector, OR56, 9-11 Sep 2014, London, UK.
- Demand Forecasting by Cross-Sectional Aggregation, 26th European Conference on Operation Research (Euro-Informs MMXIII), 1-4 July 2013, Rome, Italy.
- Demand Forecasting by Temporal Aggregation, IFAC Conference on Manufacturing Modeling, Management and Control (MIM), 19-21 June 2013, Saint Petersburg, Russia. The Impact of Temporal Aggregation on Demand Forecasting, 17th International Working Seminar on Production Economics, 20-24 February 2012, Innsbruck, Austria.

Invited talks and seminars

- ► Invited seminar, Centre for Marketing Analytics and Forecasting, Lancaster University, UK, February 2022, On performance of temporal aggregation in time series forecasting.
- Invited seminar, Kedge Business School, France, December 2021, Demand forecasting in supply chains- aggregation and hierarchical approaches.
- > Invited seminar, NHS Wales Modelling Collaborative, Online, June 2021, Value of forecasting in healthcare planning

Workshop delivery

Since January 2018, I have delivered 16 workshops in 9 countries and trained over 500 people on time series forecasting.

- 1. Instructor, Data analytics & forecasting in R, Salahaddin University, Iraq, August 2017.
- 2. Instructor, *Data analytics & forecasting in R*, Ecole Nationale des Sciences et Technologies Avancées de Borj Cédria, Tunisia, January 2018.
- 3. Instructor, Data analytics & forecasting in R, Dakar Ecole de Management, Senegal, May 2018.
- 4. Instructor, *Data analytics & forecasting in R*, Charmo University, Iraq, October 2018.

- 5. Instructor, Data analytics & forecasting in R, University of Ankara, Turkey, January 2019.
- 6. Instructor, Data analytics & forecasting in R, Institute of Human Virology, Nigeria, April 2019.
- 7. Instructor, Data analytics & forecasting in R, Makerere University Business School, Uganda, April 2019.
- 8. Instructor, Time series forecasting in R, Binus University, Indonesia, August 2019.
- 9. Instructor, Time series forecasting in R, Caucasus University, Georgia, December 2019.
- 10. Workshop leader, *Time series forecasting in R*, NHS-R community, UK, February 2020.
- 11. Workshop leader, Time series forecasting in R, NHS-R community, UK, June 2020.
- 12. Workshop leader, Time series forecasting in R, NHS-R community, UK, October 2020.
- 13. Instructor, Time series forecasting in R, NHS Midlands and Lancashire Commissioning Support Unit UK, June 2021.
- 14. Instructor, *Time series forecasting in R*, NHS Midlands and Lancashire Commissioning Support Unit UK, November 2021.
- 15. Instructor, *Time series forecasting in R*, NHS Midlands and Lancashire Commissioning Support Unit UK, February 2022.
- 16. Workshop leader, Forecasting with Multiple Seasonality, NHS-R community, UK, November 2020.

Teaching

- In every year since 2018, student evaluations for "Business Data Analytics" and "Forecasting" have given an average rating for my teaching above 4.47 out of 5.
- In 2017, I received highly commended in the "Innovation in teaching and learning" award from Cardiff Business School.
- MS.c. in Logistics and Operations Management, Cardiff University
 - Forecasting: Forecasting & decision making, Time series graphics, Exponential Smoothing, ARIMA, Regression, Residual diagnostics, accuracy evaluation
 - > Business Data Analytics: Data wrangling, visualisation, transformation & communication

Executive Education, Diploma in Planning, National Health Service, Cardiff University

Healthcare Planning Evidence and Analytics: Data collection, Explanatory Data Analysis, transformation, visualisation, predictive modeling, Regression, Correlation, Artificial Intelligence and Machine Learning, Barriers & Enablers of model implementation

MS.c. in ISLI Global Supply Chain Management, Kedge Business School, France

Inventory Management: Supply chain and inventory management, Inventory management concepts, inventory control policy, Economic Order Quantity, Inventory Management Under Uncertain Environment

MS.c. in Business Analytics, University of Exeter

> Data Visualisation in R: Tidy data, data transformation, data visualisation, ggplot2

Conference organization

- ► Organising Committee, Forecasting for Social Good workshop, 2022.
- > Program Committee, Social media analysis for humanitarian and development challenges, GoodIT, 2022.
- ► Organising Committee, Forecasting for Social Good workshop, 2021.
- ▶ Program committee, UseR!2021 conference, 2021.
- ► Invited session, International Symposium of Forecasting, 2019.
- Organising Committee, Forecasting for Social Good workshop, 2018.
- ► Forecasting stream organiser, OR59 Annual Conference, 2017.
- ► Invites Session, International Symposium of Forecasting, 2017.
- ► Forecasting stream organiser, OR58 Annual Conference, 2016.
- ► Invites Session, INCOM2015, 2015.

Special issue editorships

- > Forecasting for Social Good, International Journal of Forecasting, 2021-2022, with Michael Porter and Zied Babai.
- ► Forecasting for Social Good, International Journal of Forecasting, 2019-2020, with Michael Porter and Tao Hong.

Reviewing assignments

I have provide review service for many peer reviewed journal including: Computers & Operations Research, European Journal of Operational Research, IMA Journal of Management Mathematics, International Journal of Forecasting, International Journal of Production Economics, International Journal of Production Research, Journal of the Operations Research Society, OMEGA: International Journal of Management Science, Production and Operations Management, Supply Chain Management: An International Journal, Networks and Spatial Economics, Journal of Humanitarian Logistics and Supply Chain Management, Health Systems.

Research evaluations

► The Austrian Science Fund, Austria, 2021 - 2022

External Academic Appointments

► University of Exceter, UK, 2021- Present, External examiner for the M.Sc. in Business Analytics.