

Xiaojia Guo

CONTACT INFORMATION

UCL School of Management
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EDUCATION

UCL School of Management, University College London, UK

2014 - present Ph.D. in Management Science and Operations (expected graduation: Jun. 2020)
2013 - 2014 M.S. in Management Science and Innovation
2011 - 2012 M.S. in Statistics

Darden School of Business, University of Virginia, US

2015 Visiting Scholar in Quantitative Analysis

Ocean University of China, China

2007 - 2011 B.S. in Physical Oceanography

RESEARCH INTERESTS

Business analytics, probabilistic forecasting, machine learning, combining forecasts and data-driven operations.

PUBLICATIONS

Under Review

Guo, X., Grushka-Cockayne, Y. and De Reyck, B. [Forecasting Airport Transfer Passenger Flow Using Real-Time Data and Machine Learning](#). Conditional Accepted at *Manufacturing & Service Operations Management*

- Finalist in 2019 M&SOM Practice-Based Paper Competition.

Guo, X., Grushka-Cockayne, Y. and De Reyck, B. London Heathrow Airport Uses Real-Time Analytics for Improving Operations. Conditional Accepted at *INFORMS Journal on Applied Analytics* (formerly *Interfaces*).

- Finalist in 2019 Daniel H. Wagner Prize for Excellence in Operations Research Practice.

Guo, X., Lichtendahl Jr, K.C. and Grushka-Cockayne, Y. [An Exponential Smoothing Model with A Life Cycle Trend](#). Under major revision at *Operations Research*.

- Winner in 2018 INFORMS Decision Analysis Society Best Student Paper Award.

- Finalist in 2019 POMS-JD.com Best Data-Driven Research Paper Competition.

Work in Progress

Lichtendahl Jr, K.C., **Guo, X.** and Tassone, E. Bayesian Ensembles of Unlabeled Forecasts.

Guo, X., Grushka-Cockayne, Y. and De Reyck, B. Forecasting Project Delays with Contextual Task Information and Machine Learning.

Guo, X. and Lichtendahl Jr, K.C. Quantile Regression with a Strictly Convex Objective.

Lichtendahl Jr, K.C. and **Guo, X.** A Generalized Additive Model as the Activation Function in a Neural Network.

Other Publications

De Reyck, B., **Guo, X.**, Grushka-Cockayne, Y., Lichtendahl Jr, K.C., Garside, A., Garside, T., Coss, N. and Tasker, F., 2016. [APOC Business Process Reengineering Big Data Study](#). *Eurocontrol Technical Report*.

TEACHING EXPERIENCE

UCL School of Management

- 2017 - 2020 Instructor for Data Analytics II, undergraduate core course
Evaluation: 4.1/5 in 2017, 4.3/5 in 2018, 4.5/5 in 2019
Guest lecturer for Big Data Analytics, master elective course
- 2015 - 2017 Teaching assistant for Mathematical Foundations of Management III, undergraduate core course

London Business School

- 2014 - 2018 Workshop teacher and teaching assistant for Project Management, MBA elective

INVITED TALKS

An Exponential Smoothing Model with a Life Cycle Trend

- 2020 Robert H. Smith School of Business, University of Maryland; Department of Industrial Engineering & Decision Analytics, Hong Kong University of Science and Technology
- 2019 Miami Herbert Business School, University of Miami; Rotterdam School of Management, Erasmus University; Carroll School of Management, Boston College; School of Management and Economics, The Chinese University of Hong Kong (Shenzhen); POMS Annual Meeting; Trans-Atlantic Doctoral Conference, London Business School
- 2018 INFORMS Annual Meeting, Phoenix

Forecasting Project Delays with Contextual Task Information and Machine Learning

- 2019 INFORMS Annual Meeting; European Technology and Operations Management Conference, London Business School

Forecasting Airport Transfer Passenger Flow Using Real-Time Data and Machine Learning

- 2019 INFORMS Annual Meeting; MSOM Conference
- 2018 INFORMS Annual Meeting; European Technology and Operations Management Conference, INSEAD
- 2016 INFORMS Annual Meeting, Nashville

London Heathrow Airport Uses Real-Time Analytics for Improving Operations

- 2019 INFORMS Annual Meeting

Bayesian Ensembles of Unlabeled Forecasts

- 2019 INFORMS Advances in Decision Analysis, Milan

HONORS AND AWARDS

- 2019 Finalist in 2019 Daniel H. Wagner Prize for Excellence in Operations Research Practice
- 2019 Finalist in 2019 M&SOM Practice-Based Paper Competition
- 2019 Finalist in 2019 POMS-JD.com Best Data-Driven Research Paper Competition
- 2018 Winner in 2018 INFORMS Decision Analysis Society Best Student Paper Award
- 2018 Winner in 2018 INFORMS Aviation Application Best Student Presentation Award
- 2014 UCL School of Management Scholarship
- 2013 University College London Oversea Research Scholarship

INDUSTRY PROJECTS	2019	Artificial Intelligent in Project Management (Consultant to High Speed 2 and nPlan, UK)
	2018	The Agile Revolution to Sales (Consultant to Heresy, UK)
	2017	Forecasting Customer Out-of-service Curves after Storms (Consultant to PPL Electric Utilities, US)
	2016	Single European Sky Air Traffic Management Research Project WP6.3.1: Machine Learning Techniques for Airport Passenger Flow Management (Consultant to Eurocontrol and London Heathrow Airport, UK)
PROFESSIONAL SERVICE		Reviewer for Operations Research, Management Science, M&SOM, Decision Analysis (among others)
		Session chair for INFORMS Annual Meeting, 2019, 2020, EURO, 2019
		Reviewer for the INFORMS Decision Analysis Society Best Student Paper Award, 2020