Rouba Ibrahim

Contact Information	School of Management at University College London One Canada Square London E14 5AB, U.K. <i>E-mail:</i> rouba.ibrahim@ucl.ac.uk <i>Web:</i> http://www.roubaibrahim.com		
Academic Positions	UniversityCollege London, School of Management2012–2016Assistant Professor2016–2020Associate Professor2020–Professor2021-Head, Operations & Technology Group		
Education	American University of Beirut2002B.S., Mathematics		
	Stony Brook University2004M.S., Applied Mathematics and Statistics		
	Columbia University2010Ph.D., Operations Research		
Research Interests	Methodology: Queueing theory; stochastic modelling; data analytics. Application areas: Service operations; healthcare; sharing economy.		
Journal Publications	 Ibrahim, R. and W. Whitt. Real-Time Delay Estimation Based on Delay History. Manufacturing and Service Operations Management, 11(3), 2009, pp. 397–415. 		
	2. Ibrahim, R. and W. Whitt. Real-Time Delay Estimation in Overloaded Multiserver Queues with Abandonment. <i>Management Science</i> , 55(10), 2009, pp. 1729–1742.		
	 Ibrahim, R. and W. Whitt. Real-Time Delay Estimation Based on Delay History with Time-Varying Arrivals. Production and Operations Management, 20(5), 2011, pp. 654–667. 		
	 Ibrahim, R. and W. Whitt. Wait-Time Predictors for Customer Service Systems with Time-Varying Demand and Capacity. <i>Operations Research</i>, 59(5), 2011, pp. 1106– 1118. 		
	 Ibrahim, R. and P. L'Ecuyer. Forecasting Call Center Arrivals: Fixed-Effects, Mixed-Effects, and Bivariate Models. <i>Manufacturing and Service Operations Management</i>, 15(1), 2013, pp. 72–85. 		
	 Ibrahim, R., L'Ecuyer, P., Shen, H. and M. Thiongane. Inter-Dependent, Heterogeneous, and Time-Varying Service-Time Distributions in Call Centers. <i>The European Journal of Operational Research</i>, 250(2), 2016, pp. 480–492. 		
	 Ibrahim, R., Kucukyazici, B., Verter, V., Gendreau, M. and M. Bolstein. Designing Individualized Treatment: An Application to Anticoagulation Therapy. <i>Production</i> and Operations Management, 25(5), 2016, pp. 902–918. 		

- Ibrahim, R., Ye, H., L'Ecuyer, P. and H. Shen. Modeling and Forecasting Call Center Arrivals: A Literature Survey and a Case Study. *The International Journal of Forecasting*, 32(3), 2016, pp. 865–874.
- Ibrahim, R., Armony, M. and A. Bassamboo. Does the Past Predict the Future? The Case of Delay Announcements in Service Systems. *Management Science*, 63(6), 2017, pp. 1762–1780.
- 10. Ibrahim, R. Managing Queueing Systems where Capacity is Random and Customers are Impatient. *Production and Operations Management*, 27(2), 2018, pp. 207–383.
 - Honorable mention, 2015 Informs JFIG paper competition
- Ibrahim, R. Sharing Delay Information in Service Systems: A Literature Survey. Queueing Systems, 89(1-2), 2018, pp. 49–79.
- Ibrahim, R. and S. Kim. Is Expert Input Valuable? The Case of Predicting Surgery Duration. Seoul Journal of Business, 25(2), 2019, pp. 1–34.
- Dong, J. and R. Ibrahim. Managing Supply in the On-Demand Economy: Flexible Workers, Full-Time Employees, or Both? *Operations Research*, 68(4), 2020, pp. 965– 1284.
- Bassamboo, A. and R. Ibrahim. A General Framework to Compare Announcement Accuracy: Static vs. LES-based Announcement. *Management Science*, 67(7), 2021, pp. 3985–4642.
- Ibrahim, R., Kim, S. and J. Tong. Eliciting Human Judgment for Prediction Algorithms. *Management Science*, 67(4), 2021, pp. 1993-2656.
- Dong, J. and R. Ibrahim. On the SRPT Scheduling Discipline in Many-Server Queues with Impatient Customers. *Management Science*, 67(12), 2021, pp. 7291-7950.
- Ibrahim, R. Personalized Scheduling in Service Systems. Queuing Systems: 100 Views on Queueing (SI), 100, 2022, pp. 445–447.
- Momesso, T., B. Gokpinar, R. Ibrahim, and A. Boyle. The Effect of Removing the Four-Hour Access Standard in the ED: A Retrospective Observational Study. *Emer*gency Medicine Journal, 40, 2023, pp. 630-635.
- 19. Estrada, A., Ibrahim, R. and D. Zhan. On Customer (Dis)honesty in Priority Queues: The Role of Lying Aversion. *Management Science*, forthcoming.
 - Second place, 2021 Behavioral Operations Management Best Working paper
 - Finalist, 2021 Service Science IBM Best Student Paper (A. Estrada)

Refereed Proceedings and Book Chapters

- Ibrahim, R. and W. Whitt. Real-Time Delay Estimation in Call Centers. Proceedings of the 40th Winter Simulation Conference, 2008, pp. 2876–2883.
- Ibrahim, R. and W. Whitt. Delay Predictors for Customer Service Systems with Time-Varying Parameters. *Proceedings of the Winter Simulation Conference*, 2010, pp. 2375–2386.
- Ibrahim, R., L'Ecuyer, P., Regnard, N. and H. Shen. On the Modeling and Forecasting of Call Center Arrivals. *Proceedings of the Winter Simulation Conference*, 2012, pp. 23–35.

 Ibrahim, R. On Queues with a Random Capacity: Theory and Application. In: Hu M. (eds) *Sharing Economy*, Springer Series in Supply Chain Management, 6, 2019, pp. 279-316.

Under Review

- 24. Afeche, P., Hu, J., Ibrahim, R. and V. Sarhangian. The Effects of Information Granularity on Abandonment and Congestion in Non-Stationary Priority Queues. Reject & Resubmit at *Management Science*.
- 25. Dong, J. and R. Ibrahim. Shortest-Job-First Scheduling in Many-Server Queues with Impatient Customers and Noisy Service-Time Estimates. Major revision at *Operations Research*.
- 26. Tuncalp, F., Ibrahim, R., Kim, S-H., and J. Tong. When Should Doctors and Patients Use Shared Decision-Making Under Bounded Rationality?
- 27. Estrada, A., Ibrahim, R. and M. Kremer. Persuasive Communication in Operations.

PROFESSIONAL	• Associate ed	
Activities	2017 -	Management Science (Stochastic Models and Simulation)
	2018-2024	Operations Research (Stochastic Models; Operations and Supply Chain Management)
	2018 - 2024	IISE Transactions (Stochastic Modelling)
	2019 - 2024	Manufacturing and Service Operations Management
	2022-	Queueing Systems
	• Area editor 2024–	Operations Research (Operations and Supply Chain Management)
	• Guest editor 2023	Queueing Systems: SI on Queues in Operations Management
	• Organizing of 2015	committees 9th Young European Queueing Theorists workshop, Eurandom, Eind- hoven, The Netherlands (with Fabio Cecchi and Florian Simatos)
	2016	Applied Probability Society cluster, INFORMS, Nashville, USA (with David Goldberg)
	2018	StochMod, conference of the EURO working group on stochastic modeling, Lancaster, U.K. (with Peter Jacko)
	2018	Service Management SIG workshop, MSOM, University of Texas at Dallas, USA (with Ming Hu)
	2020	MSOM Service Operations Track, INFORMS, Maryland, USA (with Jing Dong)
	2022	Service Management SIG workshop, MSOM, TU Munich, Germany (with Jing Dong)
	2022-2023	SNAPP seminar series (with Chang-Han Rhee, Seva Shneer, Kuang Xu, and Yuan Zhong)

2023	Applied Probability Society conference (Nancy, France)
2024	Stochastic Networks conference (Stockholm, Sweden)
2024-2026	European Technology & Operations Management (TOM) seminar series (with Anna Saez de Tejada Cuenca, Spyros Zoumpoulis, and Alex Yang)

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• Professional society roles

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2015-2017	Applied Probability	Society council	(member)

2019-2020 MSOM Society (secretary/ treasurer)

- 2023-2025 INFORMS publications committee (member)
- 2023-2025 Service Management Special Interest Group Chair for the MSOM Society

• Ad-hoc referee

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Operations Research, Management Science (Distinguished service award 2014, 2018), Manufacturing and Service Operations Management (Meritorious service award 2017), Production and Operations Management, etc.

Invited Talks At Academic	2009	University of Montreal, The George Washington University (School of Business), University of British Columbia (Sauder)
INSTITUTIONS	2010	University of Michigan (Ross), University of Rochester (Simon)
	2012	University of Alberta (School of Business), University of Groningen (Faculty of Economics and Business), Erasmus University (Rotterdam School of Management), Vrije Universiteit Amsterdam (Mathematics), Delft University (Applied Mathematics), London Business School, City University London (Cass), University College London (Management Science & Innovation)
	2013	Vrije Universiteit Amsterdam (Mathematics)
	2014	Eindhoven University of Technology (YEQT Workshop)
	2016	Durham University (Business School), Frankfurt School of Finance and Management, Oxford University (Said), London Business School, North- western University (Kellogg), University of Manchester (Mathematics)
	2017	Lancaster University (Management School), University of Edinburgh (Mathematics), Columbia University (IEOR, Applied Proability Day), University of Chicago (Booth), Indiana University (Kelley), University of Illinois at Urbana Champaign (College of Business), University of North Carolina at Chapel Hill (Kenan-Flagler, discussant at MSOM Service SIG)
	2018	MIT (Sloan), University of Texas at Austin (OR & IE), University of Southern California (Marshall), Stanford (GSB)
	2019	Imperial College London (Business School)
	2020	Birkbeck, University of London (Maths & Stats)
	2021	University of Toronto (Rotman), University of Luxembourg (Economics & Management), CUNY (Baruch College), European TOM Seminar Series, Indiana University (Kelley, discussant at MSOM Service SIG)
	2022	Chinese University of Hong Kong (DSE), VU Amsterdam (Mathematics), University of Western Ontario (Ivey), Cornell University (Stochastic Net- works conference), UCLA (Anderson), Johns Hopkins University (Carey), Data-Driven Queueing Challenges II (multi-continent online workshop).
	2023	University of Bath (School of Management), University of Bristol (Mathematics), Imperial College London (Business School), Oxford (Said), Durham (Business school).

	2024 (invited)	INSEAD (TOM), Carnegie Mellon University (Tepper), Royal Statistical Society (workshop on Queues and Applications), London Business School (London Operations Day).		
Keynote Presentations	2023 2024 2024	CORS Virtual Micro-Event, Canadian Operations Research Society. Dutch conference on the Mathematics of Operations Research, Soester- berg, The Netherlands. New2OR Conference, London, U.K.		
TEACHING	Stony Brook University Precalculus (undergraduate)			
	Columbia University Probability (undergraduate)			
	University College London Mathematical Foundations of Management (undergraduate) Stochastic Modelling (Ph.D.)			
	London Business School (as Guest Lecturer) Operations Management (MBA, core course)			
SUPERVISION	Doctoral students Arturo Estrada (2018 -) Tomas Momesso (2020 -)			
	- 、	l students 20 -), joint with Philipp Afeche and Vahid Sarhangian p (2021 -), joint with Song-Hee Kim and Jordan Tong		
Patents	"Method for predicting call waiting times." 2012. US Patent 8,311,208 (with P. Tendick).			
Internal Service (at UCL)	2012–2013 2013 2015–2020 2016 2018 2020	Coordinator of the Management Science program (Mathematics track) Departmental representative for Integrated Engineering Program (IEP) Internal examiner, PhD of Ioannis Fragkos Seminar series organizer OM area reading group organizer Internal examiner, PhD of Ryan Palmer Internal examiner, PhD of Xiaojia Guo		
Previous Positions	2007 2009 2010–2011 2010 2011	Deutsche Bank, summer associate, Global Markets Avaya Research Labs, research scientist, Data Analysis department Bell Canada, consultant University of Montreal, postdoctoral fellow (with P. L'Ecuyer) McGill University, postdoctoral fellow (NSERC CREATE Program)		