

Işık Biçer - Curriculum Vitae

CONTACT INFORMATION	111 Ian MacDonald Blvd, SSB S337, North York, ON M3J 1P3, Canada Website: Supply Chain Analytics Lab, ORCID, LinkedIn.	Tel: 1-647-2150174 E-mail: bicer@schulich.yorku.ca
EDUCATION	<i>PhD in Economics</i> <i>Specialization:</i> Operations Research University of Lausanne, Faculty of Business and Economics, Switzerland	2010–2014
	<i>MSc in Industrial Engineering</i> Bogazici University, Turkey	2007–2010
	<i>BSc Double Major in Industrial and Mechanical Engineering</i> Middle East Technical University, Turkey	2001–2006
ACADEMIC EMPLOYMENT	<i>Associate Professor (with tenure) of Operations Management</i> Schulich School of Business, York University, Canada	2023–Cont.
	<i>Assistant Professor of Operations Management</i> Schulich School of Business, York University, Canada	2019–2023
	<i>Assistant Professor of Supply Chain Management</i> Rotterdam School of Management, Erasmus University, The Netherlands	2017–2019
	<i>Visiting Professor of Business Analytics</i> University of Lausanne, Faculty of Business and Economics, Switzerland	2018
	<i>Post-doctoral Researcher</i> Swiss Federal Institute of Technology (EPFL), College of Technology Management, Switzerland	2014–2016
	<i>Doctoral Assistant</i> University of Lausanne, Faculty of Business and Economics, Switzerland	2010–2014
INDUSTRY EMPLOYMENT	<i>Business Intelligence and Risk Management Analyst</i> Fortis Bank, Turkey	2007–2010
	<i>Supply Chain Analyst</i> Pfizer Pharmaceuticals, Turkey	2006–2007
BOOKS	Biçer, I. (2025) Re-imagining Supply Chain Management: Uncovering the Hidden Trade-offs in the Digital Age, Cambridge University Press, ISBN: 978-1-009-61918-9.	
	Biçer, I. (2023) Supply Chain Analytics: An Uncertainty Modeling Approach, Springer Nature, ISBN: 978-3-031-30349-4.	
JOURNAL ARTICLES	Biçer, I. (2022) Securing the Upside of Digital Transformation before Implementation: Keeping it Simple, Explicit, and Customer-Centric, <i>California Management Review</i> , <i>Frontier Insights</i> .	

Biçer, I., Tarakci, M., Kuzu, A. (2022) Using Uncertainty Modeling to Better Predict Demand, *Harvard Business Review*, Available at: <https://hbr.org/2022/01/using-uncertainty-modeling-to-better-predict-demand>.

Biçer, I., Lucker, F., Boyaci, T. (2022) Beyond Retail Stores: Managing Product Proliferation along the Supply Chain. *Production and Operations Management*, 31(3), 1135–1156.

Kırcı, M., Biçer, I., Seifert, R. W. (2019) Optimal replenishment cycle for perishable items facing demand uncertainty in a two-echelon inventory system. *International Journal of Production Research*, 57(4), 1250–1264.

Lucker, F., Seifert, R. W., Biçer, I. (2019) Roles of inventory and reserve capacity in mitigating supply chain disruption risk. *International Journal of Production Research*, 57(4), 1238–1249.

Biçer, I., Hagspiel, V., De Treville, S. (2018) Valuing supply-chain responsiveness under demand jumps. *Journal of Operations Management*, 61, 46–67.

Biçer, I., Seifert, R. W. (2017) Investments in lead-time reduction: How to finance and how to implement. *Foundations and Trends in Technology, Information and Operations Management*, 11(1–2), 32–45 (Special Issue Eds: Panos Kouvelis, Ling Dong, and Danko Turcic).

Biçer, I., Seifert, R. W. (2017) Optimal dynamic order scheduling under capacity constraints given demand-forecast evolution. *Production and Operations Management*, 26(12), 2266–2286.

Biçer, I., Hagspiel, V. (2016) Valuing quantity flexibility under supply chain disintermediation risk. *International Journal of Production Economics*, 180, 1–15.

Seifert, R. W., Tancrez, J. S., Bicer, I. (2016) Dynamic product portfolio management with product life cycle considerations. *International Journal of Production Economics*, 171(1), 71–83.

Biçer, I. (2015) Dual sourcing under heavy-tailed demand: An extreme-value theory approach. *International Journal of Production Research*, 53(16), 4979–4992.

De Treville, S., Bicer, I., Chavez-Demoulin, V., Hagspiel, V., Schurhoff, N., Tasserit, C., and Wager, S. (2014) Valuing lead time. *Journal of Operations Management*, 32(6), 337–346.

Avanzi, B., Bicer, I., De Treville, S., and Trigeorgis, L. (2013) Real options at the interface of finance and operations: Exploiting embedded supply-chain real options to gain competitiveness. *The European Journal of Finance*, 19(7–8), 760–778.

WORKING
PAPERS

Schneider, P., Biçer, Trade Credit and Non-payment Risk under Financial Distress. (Status: Under Review).

Logothetis, D., Biçer, I., Kayalli-Elalem, Y., and Seifert, R. W., Optimal policies for a price-setting newsvendor with multiple products and a joint capacity constraint (Status: Revise & Resubmit).

- THESES Bicer, I. (2014) Modeling and mitigation of supply-demand mismatches, Doctoral Thesis, University of Lausanne, Faculty of Business and Economics.
Supervisor: Prof. Suzanne De Treville
- Bicer, I. (2010) Improvements of Column Generation Methods to Solve Large Scale Aircrew Scheduling Problems, Master Thesis, Bogazici University, Industrial Engineering Department.
Supervisor: Prof. Taner Bilgiç
- IN PROCEEDINGS Bicer, I. and Seifert, R. W. (2015) Coherent Measures of Customer Service Level. *The EurOMA Annual Meeting*, Neuchatel, Switzerland.
- Bicer, I. (2012) Pricing indirect behavioral effects in a supply chain: From the perspective of “Contracts as Reference Points.” *The German Operational Research (GOR) Annual Conference*, Hannover, Germany, 549–554.
- Bicer, I. and Bilgic, T. (2010) Improvements in solving resource-constrained shortest path problems in the column generation context. *The IEEE IE&EM Annual Conference*, Xiamen, China, 655–659.
- Bicer, I., Sevis, D., and Bilgic, T. (2010) Bayesian credit scoring model with integration of expert knowledge and customer data. *The European Operational Research Society (EURO) Annual Workshop*, Izmir, Turkey, 324–329.
- PUBLIC PRESS Seifert, R. W., Kayalli-Elalem, Y., Biçer, I. (2022) Take the circular route to curbing over-production, *I by IMD*,
<https://iby.imd.org/supply-chain/take-the-circular-route-to-curbing-over-production/>.
- Interview with Zen Terrelonge. (2018) How KFC’s delivery nightmare showed that logistics can be franchises’ weakest link, *Elite Franchise Magazine*.
- Bicer, I. (2018) Lessons from KFC’s chicken shortage: Responsiveness versus cost efficiency. *RSM Discovery* (Reprinted by Het Logistiek in Dutch).
- Seifert, R.W., Bicer, I. (2015) Setting up supply chain strategies for innovative products. *IMD Tomorrow’s Challenges* (Reprinted by Forbes India).
- UNPUBLISHED Biçer, I., Ensing, Y., Delnooz, J. Demand Analytics at Kraft Heinz: Combining Statistical and Judgmental Forecasts (Case Study prepared for Generalized Least Squares training).
- Biçer, I., Johnston, D., Kristal, M., and Şenkon, A. Rethinking Retail Inventory Performance and Financial Risk
- Biçer, I., Becker-Peth, M., Seifert, R. W. How do Supply Chain Investments Impact on Return on Equity in the Retail Industry?

TEACHING EXPERIENCE	<i>OMIS 5201–Digitizing Supply Chain Operations</i>	2024, 2025
	Schulich School of Business, MBA in Technology Leadership	
	<i>MMAI 5200–Algorithms for Business Analysis</i>	2020, 2021, 2022, 2023, 2024, 2025
	Schulich School of Business, Master of Management in Artificial Intelligence	
	<i>MBAN 5110–Predictive Modeling</i>	2022, 2023, 2024
	Schulich School of Business, Master of Business Analytics	
	<i>OMIS 6000–Models & Applications In Operational Research</i>	2023
	Schulich School of Business, Master of Business Analytics	
	<i>OMIS 3020–Predictive Analytics</i>	2020, 2021, 2022, 2023, 2024, 2025
	Schulich School of Business, Bachelor in Business Administration	
<i>MGMT 1050–Business Analytics 1</i>	2020	
Schulich School of Business, Bachelor in Business Administration		
<i>OMIS 5210–Operations Management</i>	2020	
Schulich School of Business, Master of Business Administration		
<i>BMME069–Supply Chain Simulation</i>	2017–2019	
Rotterdam School of Management, Master in Supply Chain Management		
<i>Supply Chain Analytics</i>	2018	
University of Lausanne, Master in Management		
<i>Mathematical Models in Supply Chain Management (Co-instructor)</i>	2014, 2016	
Swiss Federal Institute of Technology (EPFL), PhD in Technology Management		
HONORS AND AWARDS	Associate Editor, <i>Decision Sciences Journals</i>	2023-Cont.
	Reviewer Award, <i>Journal of Operations Management</i> ,	2020
	Honorarium for the contribution to the Special Issue by Boeing Center of Supply Chain Innovation, Olin Business School, University of Washington, 2017	
	Recognition for contributing to the development of the CDF tool at the OpLab of the University of Lausanne:	
	<ul style="list-style-type: none"> • US Department of Commerce: https://acetool.commerce.gov/cost-risk-topic/inventory • Public release by the White House: http://www.whitehouse.gov/the-press-office/2014/10/03/fact-sheet-president-obama-announces-new-manufacturing-innovation-instit) 	
	Full PhD Scholarship at the University of Lausanne (\approx 250K CHF)	2010–2014
	Performance award for achievements in the implementation of the Hyperion Reporting Studio at the Fortis Bank, 2009	
	Completion of the double-major studies at the Middle East Technical University, 2006	
	Ranked 93 rd in the Turkish Graduation Record Examination (ALES) among 130K entrants, 2006	
	Ranked 513 th in the Turkish University Entrance Examination (OSS) among 1.3 Million students, 2000	

PRESENTATIONS (PAST 5 YEARS) Trade Credit and Non-payment Risk under Financial Distress,
• Tilburg University, October 2025.
• *Swiss Federal Institute of Technology - EPFL*, November 2025

Supply chain analytics with uncertainty modeling approach,
• Government of Canada: Innovation, Science and Economic Development, April 2023, Online
• *Supply Chain Research Forum*, George Weston Ltd Centre for Sustainable Supply Chains (Host: Professors M. Johnny Rungtusanatham and David Johnston), May 2022, Online
• *Kadir Has University Research Series* (Host: Prof. Mustafa Hekimoglu), April 2022, Online

Supply chain finance: A practical review and analysis, POMS Annual Conference, April 2022, Online

Rethinking retail inventory performance and financial risk,
• *CORS/INFORMS International Conference*, June 2022, Vancouver, CA
• *Annual Conference of the Harvard-Wharton Consortium for Operational Excellence in Retailing*, 2020,

Beyond retail stores: Managing product proliferation along the supply chain,
• *Annual Conference of the Harvard-Wharton Consortium for Operational Excellence in Retailing*, 2021,
• *POMS Annual Conference*, 2019, Washington DC, USA
• *Schulich School of Business*, 2018, Toronto, ON, CA
• *INFORMS Annual Conference*, 2018, Phoenix, AZ, USA

Optimal dynamic order scheduling under capacity constraints given demand-forecast evolution, *MSOM Annual Conference*, June 2017, University of North Carolina at Chapel Hill, NC, USA

The value of vertical integration under operational and financial considerations,
• *Dutch National Conference on Operations Management and Logistics*, April 2018, Soesterberg, The Netherlands
• *Supply Chain Finance & Risk Management Workshop*, May 2017, Olin Business School, University of Washington, St. Louis, USA (by invitation from the Boeing Center of Supply Chain Innovation)

Valuing supply-chain responsiveness under demand shocks, *Cass Business School Research Series* (Host: Prof. Florian Lucker), 2018, London, UK

PHD PROJECTS Yara Kayyali Elalem (EPFL)
Co-supervisor (main adviser Ralf Seifert), First placement: Investment Banking Analyst

Philipp Schneider (EPFL)
Main adviser: Daniel Kuhn. Expected graduation in 2026

Florian Lucker (EPFL)
Daily post-doctoral supervisor, First placement: Assistant Professor, Cass Business School, City, University of London

Merve Kirci (EPFL)
Daily post-doctoral supervisor, First placement: Demand Analyst, Roche Pharmaceuticals HQ, CH

	Master Thesis Supervision at RSM (alphabetically ordered)	2017–2019
	<ul style="list-style-type: none"> • Alyssa Beitsma (Consultancy: Mercer) • Vivien Boros (SCM: Kraft Heinz) • Yoran Ensing (Finance (trading): Hoogwegt International B.V.) • Grigoria Eleni Kakafika (SCM: Diageo) • Vasileios Kativos (SCM: Amgen) • Ting-An Lin (SCM: Akzo Nobel) • Naomi Lutskes (Consultancy: Boston Consulting Group) • Ata Senkon (Finance: HPE Growth) • Oceane Yu (SCM: FreislandCampina) 	
OTHER SERVICES	OMIS Area PhD Coordinator <i>Schulich School of Business</i>	2023–Cont.
	Masters Admission Committee Member <i>Schulich School of Business</i>	2021–2022.
	Student Affairs Committee Member <i>Schulich School of Business</i>	2020–2021
	Editorial Board Member, <i>Journal of Operations Management</i>	2018–2024.
	Steering Committee Member <i>Rotterdam School of Management</i> , Master in Business Analytics, Curriculum Development and Market Analysis	2018–2019
	Ad-hoc Reviewer: Operations Research, Manufacturing and Service Operations Management, Production and Operations Management, <i>Journal of Operations Management</i> .	