

Joren Gijsbrechts

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EDUCATION

University of Antwerp

B.Sc. & M.Sc. Applied Economics

Antwerp, Belgium

Sep. 2009 – June 2012

KU Leuven

Ph.D. Operations Management

Leuven, Belgium

Sep. 2016 – August 2020

EXPERIENCE

Assistant Professor

Esade Business School, Ramon Llull University

Sep. 2023 – Present

Barcelona, Spain

- Teaching core Operations and Business Analytics courses.

Assistant Professor

Catolica Lisbon School of Business and Economics

Sep. 2020 – Aug. 2023

Lisbon, Portugal

- Taught core Operations and Business Analytics courses.

Visiting Scholar

MIT Sloan School of Management

Jan. 2023 – March. 2023

Cambridge, Massachusetts

- Joint Research with professor Vivek Farias.

Visiting PhD student

Kellogg School of Management

Sep. 2019 – Dec. 2019

Evanston, Illinois

- Joint Research with professor Jan A. Van Mieghem.

PUBLICATIONS

Journal Articles

- **Gijsbrechts J, Van Staden HE.** Where Did the Demand Go? Teaching Demand Censoring with the Newsvendor Challenge. *INFORMS Transactions on Education* (2024). DOI:10.1287/ited.2024.0085
- **Gijsbrechts J, Imdahl C, Boute RN, Van Mieghem J.** Optimal Robust Inventory Management with Volume Flexibility: Matching Capacity and Demand with the Lookahead Peak-Shaving Policy. *Production and Operations Management* (2023). DOI:10.1111/poms.14069
- **Gijsbrechts J, Boute RN, Disney SM, Van Mieghem JA.** Volume Flexibility at Responsive Suppliers in Reshoring Decisions: Analysis of a Dual Sourcing Inventory Model. *Production and Operations Management* (2022). DOI:10.1111/poms.13719
- **Gijsbrechts J, Boute RN, Van Mieghem JA, Zhang DJ.** Can Deep Reinforcement Learning Improve Inventory Management? Performance on Dual Sourcing, Lost Sales and Multi-Echelon Problems. *Manufacturing & Services Operations Management* 24(3):1261–1885 (2022). DOI:10.1287/msom.2021.1064
- **Boute RN, Disney SM, Gijsbrechts J, Van Mieghem JA.** Dual Sourcing and Smoothing under Non-Stationary Demand Time Series: Re-shoring with SpeedFactories. *Management Science* 68(2):1039–1057 (2021). DOI:10.1287/mnsc.2020.3951
- **De Moor B, Boute RN, Gijsbrechts J.** A reward shaping approach to improve the applicability of deep reinforcement learning to inventory management. *European Journal of Operational Research* 301(2):535–545 (2021). DOI:10.1016/j.ejor.2021.10.045
- **Boute RN, Gijsbrechts J, van Jaarsveld W, Vanvuchelen N.** Deep reinforcement learning for inventory control: A roadmap. *European Journal of Operational Research* 298(2):401–412. DOI:10.1016/j.ejor.2021.07.016
- **Yee H, Boute RN, Gijsbrechts J.** Synchromodal Planning under Stochastic Travel Times. *Computers in Industry* 125:103367 (2021). DOI:10.1016/j.compind.2020.103367
- **Vanvuchelen N, Gijsbrechts J, Boute RN.** Use of Proximal Policy Optimization for the Joint Replenishment Problem. *Computers in Industry* 119:103239 (2020). DOI:10.1016/j.compind.2020.103239

Working Papers

- **Farias V, Gijsbrechts J, Khojandi A, Peng T, Zheng A.** Speeding up Policy Simulation in Supply Chain RL. Working paper at MIT. arXiv:2406.01939
- **Bertani N, Gijsbrechts J, Godinho de Matos M, Wagner L.** Reminders in a Resource Scarce Setting: The Case of Mobile Data Consumption. Working paper at Católica Lisbon School of Business & Economics. <https://ssrn.com/abstract=4911622>
- **De Moor B, Boute RN, Gijsbrechts J.** When do Shippers Match? Managing Inventory with Capacitated Discount Opportunities. Working paper at KU Leuven.
- **Gijsbrechts J, Olivares Nadal A, Wagner L.** Replenishing a Try-Before-You-Buy Channel in Online Retail. Working paper at Esade, Ramon Llull.

Book Chapters

- **Boute RN, Gijsbrechts J, Van Mieghem JA.** Digital Lean Operations: Smart Automation and Artificial Intelligence in Financial Services. In: Babich V, Birge J, Hilary G (eds) Innovative Technology at the interface of Finance and Operations. Springer Series in Supply Chain Management, forthcoming, Springer Nature (2021).

TEACHING

Current Teaching

Full-time MBA – Business Analytics <i>Esade Business School</i>	2023–present
Full-time MBA – Supply Chain Management <i>Esade Business School</i>	2023–present
MSc Sustainability – Data Science and Operations for Sustainability <i>Esade Business School</i>	2023–present

Invited Teaching

Data-driven Decision-Making and Business Analytics – Executive-MBA <i>CLSBE, Lisbon, Portugal</i>	2022–present
Inventory Control and Machine Learning in Supply Chains <i>University of Antwerp, Belgium</i>	2019–present
Postgraduate Smart Logistics – Green Transport and Machine Learning <i>KU Leuven Kortrijk, Belgium</i>	2019–present

Past Teaching

Company Workshop for GB Foods on Data-Driven Organizations <i>Esade Business School</i>	2025
Operations Management – Executive Masters Program <i>CLSBE, Lisbon, Portugal</i>	2021–2022
Supply Chain Management - M.Sc. <i>CLSBE, Lisbon, Portugal</i>	2021–2023
Advanced Predictive Analytics - M.Sc. <i>CLSBE, Lisbon, Portugal</i>	2022–2023
Operations Analytics - M.Sc. <i>CLSBE, Lisbon, Portugal</i>	2022–2023
Introduction to Operations Management - B.Sc. <i>CLSBE, Lisbon, Portugal</i>	2020–2023

Data-driven Decision Making and Business Analytics - B.Sc. <i>CLSBE, Lisbon, Portugal</i>	2022–2023
PhD Class on Deep Reinforcement Learning in Inventory Management <i>NYU Stern School of Business, US</i>	2022
PhD Class on Deep Reinforcement Learning in Inventory Management <i>Wharton, US</i>	2022
Supply Chain Bootcamp – Impact of Machine Learning on Operations Management <i>Vlerick Business School, Belgium</i>	2019
Workshop on ML in Operations Management <i>Catholic University Milan, Italy</i>	2019