

# Dorothee Honhon

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## Education

**Ph.D. in Operations Management, Stern School of Business, New York University** (2001-2006)

- Ph.D. thesis: "Essays on Assortment Planning with Consumer-driven Substitution, and Large scale Dynamic Programming". Advisors: Vishal Gaur & Sridhar Seshadri

**Bachelor's and Master's degree in Management Engineering, University of Liege, Belgium** (1995-2000)

## Positions Held

**Associate Dean for Sustainability & Societal Impact** (January 2024 – now)  
Naveen Jindal School of Management, University of Texas at Dallas.

**Associate Dean for Diversity, Equity and Inclusion** (August 2022 – December 2023)  
Naveen Jindal School of Management, University of Texas at Dallas.

**Professor in Operations Management** (August 2022 – Now)  
Naveen Jindal School of Management, University of Texas at Dallas.

**Associate Professor in Operations Management** (September 2015 – August 2022)  
Naveen Jindal School of Management, University of Texas at Dallas.

**Assistant Professor in Operations Management** (July 2013- August 2015)  
Naveen Jindal School of Management, University of Texas at Dallas.

**Assistant Professor in Operations Management** (August 2011 – July 2013)  
School of Industrial Engineering, Technische Universiteit Eindhoven

**Assistant Professor in Operations Management** (September 2006 – 2011)  
McCombs School of Business, University of Texas at Austin

**Visiting faculty** (Summers 2018, 2019)  
INSEAD, Fontainebleau campus

**Visiting faculty** (Summer 2017)  
MIT-Zaragoza Logistics Center, Spain.

**Visiting faculty** (Summer 2016)  
 Université de Montréal, CIRRELT, Canada  
**Visiting faculty** (Summer 2014)  
 Indian School of Business, India  
**Visiting Professor** (Summer 2008)  
 MIT-Zaragoza Logistics Center, Spain.

## Research Publications

- Gaur and **Honhon**, Assortment Planning and Inventory Decisions Under a Locational Consumer Choice Model, *Management Science*, 2006, 52(10), 1528-43. [\[DOI\]](#)
- **Honhon** and Seshadri, Admission control with incomplete information to a finite buffer queue, *Probability in the Engineering and the Information Sciences*, 2007, 21, 19-46.
- **Honhon**, Gaur and Seshadri, Assortment Planning and Inventory Decisions under stock-out based substitution, *Operations Research*, 2010, 58(5), 1364 – 1379. [\[DOI\]](#)
- Pan and **Honhon**, Assortment planning with vertically differentiated products, *Production and Operations Management*, 2012, 21(2), 253-275. This paper was awarded the **Wickham Skinner best paper published in Production and Operations Management for 2012** award. [\[DOI\]](#)
- **Honhon**, Gaur and Seshadri, A Multi-Supplier Sourcing Problem with a Preference Ordering of Suppliers, *Production and Operations Management* 2012, 21(6), 1028-1041. [\[DOI\]](#)
- **Honhon**, Jonnalagedda and Pan. Optimal Algorithms for Assortment Selection under Ranking-based Consumer Choice Models, *Manufacturing & Service Operations Management*, 2012, 14(2), 279-289. [\[DOI\]](#)
- Ulu, **Honhon** and Alptekinoglu, Learning Consumer Tastes through Dynamic Assortments, *Operations Research*, 2012, 60(4), 833-849. [\[DOI\]](#)
- **Honhon** and Seshadri, Fixed versus Random Proportions Demand Models for Assortment Planning, *Manufacturing & Service Operations Management*, 2013, 15(3), 378-386. [\[DOI\]](#)
- Franceschetti, **Honhon**, van Woensel, Bektas and Laporte, The Time-Dependent Pollution-Routing Problem. *Transportation Research Part B*, 2013, 56, 265-293. [\[DOI\]](#)
- Ehrenthal, **Honhon** and Van Woensel, The Value of Accounting for Demand Seasonality in Retail Inventory Management, *European Journal of Operational Research*, 2014, 238, 527-539. [\[DOI\]](#)
- Franceschetti, **Honhon**, Laporte, Van Woensel & Fransoo. Strategic Fleet Management for City Logistics. *Transportation Research Part B*. 2017. 95 (January), 19-40. [\[DOI\]](#)
- Franceschetti, Demir, **Honhon**, Van Woensel, G. Laporte and Stobbe. A metaheuristic algorithm for the time-dependent pollution-routing problem. *European Journal of Operational Research*. 2017. 259 (3), 972-991. [\[DOI\]](#)
- **Honhon** and Pan, Improving Profits by Bundling Vertically Differentiated Products. *Production and Operations Management*, 2017, 26(8), pp 1481-1497. [\[DOI\]](#)
- Franceschetti, **Honhon**, Van Woensel & Laporte, T. A shortest-path algorithm for the Departure Time and Speed Optimization Problem. *Transportation Science*. 2018, Vol. 52, No. 4, pp 739-1034. [\[DOI\]](#)
- Hyndman and **Honhon**, Flexibility in Long-Term Relationships: An Experimental Study. *Manufacturing & Service Operations Management*, 2019, 22 (2), pp 223-428. [\[DOI\]](#)
- Ge, **Honhon**, Fransoo, Zhao. Supplying to mom and pop: Traditional retail channel selection in megacities. *Manufacturing & Service Operations Management*, 2020. [\[DOI\]](#)
- Hyndman and **Honhon**. Flexibility and Reputation in Repeated Prisoner's Dilemma Games. *Management Science*, 2020, 66 (11), pp 4998-5014. [\[DOI\]](#)

- Ge, **Honhon**, Fransoo, Zhao. Manufacturer Competition in the Nanostore Retail Channel. *European Journal of Operational Research*, 2020, 286 (1), pp 360-374. [\[DOI\]](#)
- **Honhon**, Pan and Jonnalagedda, Heuristics for the assortment planning problem under Ranking-based Consumer Choice Models. *OR Letters*. 2020, 48 (3), pp 309-316. [\[DOI\]](#)
- Akkas and **Honhon**. Shipment Policies for Products with Fixed Shelf Lives: Impact on Profits and Waste. *Manufacturing & Service Operations Management*, 2021, 24(3). [\[DOI\]](#)
- Bixler and **Honhon**. Exploring the Connections Between Backrooms, Inventory Record Inaccuracies, and Waste, *Sustainability*, 2021, 13(17). [\[DOI\]](#)
- Wu and **Honhon**. Don't Waste that Free Lettuce! Impact of BOGOF Promotions on Waste. Forthcoming in *Production and Operations Management*. [\[DOI\]](#)
- Akkas and **Honhon**. Determining Maximum Shipping Age Requirements for Shelf Life and Food Waste Management. Forthcoming in *Production and Operations Management*.

## Completed Research Papers

- Vorotynseva and **Honhon**. Can managers plan assortments? An experimental study. Revise and resubmit at *Manufacturing & Service Operations Management*.
- Atan, **Honhon** and Pan. Displaying and discounting perishables: impact on retail profits and waste. Reject and Resubmit at *Management Science*.
- Kirci, **Honhon** and Muharremoglu. Do You Lose When You Sell Loose? Impact of Unpackaged Sales on Profit and Waste.
- Kadiyala, Ulu and **Honhon**. Blackwell Sufficiency of Assortments. Submitted to *Management Science*
- DeHoratius, Gurerk, **Honhon** & Hyndman. Understanding the behavioral drivers of execution failures in retail supply chains: an experimental study using virtual reality. Submitted to *Production and Operations Management*
- Ge, Fransoo, **Honhon** and Zhao. Selling to nanostores, Reject and Resubmit at *Management Science*.
- Feng, **Honhon** & Ye. Online Assortment Optimization when Consumers Refine their Search. Revise and Resubmit at *Production and Operations Management*.

## Working Papers

- Dynamic assortment planning when consumers are variety-seeking, with Ismail Kirci, Sridhar Seshadri and Sumit Kunnumkal
- Assortment planning when consumers buy n-packs, with Ying Cao.
- The impact of online sales on perishable product waste in grocery retail, with Parisa Shahsavand.
- Why you should not believe expiration dates, with Parisa Shahsavand and Iva Rashkova.

## Other Publications

- Why I Love Grocery Shopping, POMS Chronicle, 2008, 15(2), 12.

## Research Interests

- Sustainable supply chains, Waste Management, Assortment Planning, Stochastic Inventory Management, Retail Operations Management.

## Research grants

- McCombs Research Excellence Grant (2011) for the project entitled “Utilizing Multiple Information Sources: How do individuals resolve cost vs precision trade-off?” (with co-investigators Canan Ulu

and Kyle Hyndman). Grant amount: 6,075 USD.

## Research Presentations

- UC Berkeley (February 2023)
- University of North Carolina, Chapel Hill (October 2023)
- University of Connecticut (October 2023)
- European Working Group on Retail Operations, Stockholm (September 2023)
- HEC Liege, Belgium (May 2023)
- European Working Group on Retail Operations, Istanbul (October 2022)
- MSOM Conference Munich (June 2022)
- TUM School of Management (June 2021)
- NEOMA Business School, France (May 2021)
- Baruch College (March 2021)
- Georgetown University (March 2020)
- University of Illinois at Chicago (February 2020)
- University of Luxembourg (January 2020)
- INFORMS Annual Meeting, Seattle (November 2019)
- Indiana University (October 2019)
- MSOM Conference Singapore (June 2019)
- COER Conference, Harvard Business School (May 2019)
- European Working Group on Retail Operations, Mallorca (April 2019)
- Emory University (April 2019)
- Cornell University (March 2019)
- Georgia Institute of Technology (March 2019)
- University of Illinois at Urbana-Champaign (January 2019)
- INCAE, Costa Rica (November 2018)
- INFORMS Annual Meeting, Phoenix (November 2018)
- Workshop “Future of Retail Operations”, Heilbronn Germany (October 2018)
- European Working Group on Retail Operations, Eindhoven (May 2018)
- POMS Annual conference, Houston (May 2018)
- North Carolina State University (March 2018)
- Duke University, Fuqua School of Business (November 2017)
- INFORMS Annual Meeting, Houston (October 2017)
- Dartmouth College, Tuck School of Business (October 2017)
- Kedge Business School, Bordeaux, France (July 2017)
- POMS Annual conference, Seattle (May 2017)
- INFORMS Annual Meeting, Nashville (November 2016)
- International INFORMS conference, Hawaii (June 2016)
- POMS Annual conference, Orlando (May 2016)
- Boston University, Questrom School of Business (March 2016)
- University of Florida, Warrington School of Business (March 2016)
- University of Utah, David Eccles School of Business (December 2015)
- INFORMS Annual Meeting, Philadelphia (November 2015)
- Singapore Management University, Operations Management Summer Camp (August 2015)
- EBS Business School, Wiesbaden, Germany (July 2015)

- COER Conference, Harvard Business School (June 2015)
- POMS Annual conference, Washington DC (May 2015)
- University of Southern California (April 2015)
- Fashion Operations Conference, IESE Business School, Barcelona, Spain (March 2015)
- INFORMS Annual Meeting, San Francisco (November 2014)
- POMS Annual conference, Atlanta (May 2014)
- INFORMS Annual Meeting, Minneapolis (October 2013)
- Tsinghua University, Beijing (September 2013)
- Marketing Science conference, Istanbul (July 2013)
- POMS annual conference, Denver (May 2013)
- London Business School (April 2013)
- IESE, Barcelona (April 2013)
- University of Texas at Dallas (April 2013)
- POMS annual conference, Chicago (May 2012)
- INSEAD, Fontainebleau, France (February 2012)
- INFORMS annual conference, Charlotte (November 2011)
- 6<sup>th</sup> Annual Behavioral Operations conference, INSEAD Fontainebleau (June 2011)
- POMS annual conference, Reno (May 2011)
- INFORMS Annual meeting, Austin (November 2010)
- George Washington University (September 2010)
- TU/e Eindhoven University of Technology (August 2010)
- ALIO-INFORMS Joint International Meeting, Buenos Aires (June 2010)
- POMS annual conference, Vancouver (May 2010)
- INFORMS Annual Meeting, San Diego (October 2009)
- CORS-INFORMS international meeting, Toronto (June 2009)
- POMS annual conference, Orlando (May 2009)
- University of Texas at Dallas (February 2009)
- Indiana University (January 2009)
- INFORMS Annual Meeting, Washington DC (October 2008)
- INFORMS Annual Meeting, Seattle (November 2007)
- Southern Methodist University (August 2007)
- International INFORMS, Puerto Rico (2007)
- University of Michigan, Cornell, UCLA, UNC, University of Texas at Austin, INSEAD, University of Utah, University of Alberta, Universitat Pompeu Fabra, University of Melbourne, University of Ottawa, Zaragoza Logistics Center (January – March 2006)
- INFORMS Annual meeting, San Francisco (2005)
- MSOM Annual meeting, Eindhoven (2005)
- INFORMS Annual meeting, Denver (2004)

## Honors and Awards

- Honorable mention for the 2023 MSOM Society Best AE Award – Management Science
- Winner of **OWLIE Award for Jindal Faculty of the Year** (Graduate) (2021)
- Finalist for OWLIE Award for Jindal Faculty of the Year (Graduate) (2020)
- INFORMS Forum Moving Spirit Award (2020)
- Naveen Jindal School of Management Outstanding Graduate Teaching Award (2017-18) – a \$1000

prize

- Finalist for OWLIE Award for Jindal Faculty Idol (2018)
- INFORMS Volunteer Service Award at the Meritorious level (2017)
- M&SOM Meritorious Service Award (2014)
- Obtained Dutch teaching certification Basiskwalificatie Onderwijs (BKO) in June 2013.
- Wickham Skinner **best paper published in Production and Operations Management** during 2012 Award for the paper entitled “Assortment Planning for Vertically Differentiated Products” co-authored with Xiajun Amy Pan, presented at the 24<sup>th</sup> annual POM conference, May 3-6, 2013.
- Presented in the “Best of WORMS” session at INFORMS (2011): “Three women in OR/MS present their highly influential work published in INFORMS journals in 2010.”
- Trammell/CBA Foundation Teaching Award for Assistant Professors (2011) – a \$2,500 prize
- University of Texas Regents’ Outstanding Teaching Award for Assistant Professors (2010) – a \$25,000 prize
- M&SOM Meritorious Service Award (2009)
- Stern Award for Ph.D. Teaching Excellence, New York University (2005) – a \$1,000 prize
- Taggart and Stern Fellowship, New York University (2005-2006)
- Stern Fellowship, New York University (2001-2005)
- Fonds E.G. de Barsy (Fellowship), Fonds National de la Recherche Scientifique, Belgium (2001–2002)
- Dexia Prize for best undergraduate thesis, University of Liege, Belgium. (2000)

## Refereeing

- Department Editor for Outreach at *Manufacturing and Service Operations Management* (2024-now)
- Associate editor at *Management Science* (2014-now)
- Senior Editor at *Production and Operations Management* (2018-now)
- Associate editor at *Manufacturing and Service Operations Management* (2021-now)
- Editor for Special issue on “Waste Minimization: Strategies for the Reduction and Prevention of all Forms of Waste” at the journal *Sustainability* (2020-now)
- Recognized reviewer status achieved at the *European Journal of Operations Research* and *OR Letters* journals
- Associate editor at *4OR, a Quarterly Journal of Operations Research* (2017-now)
- Guest editor for Feature Cluster (Special Issue) of *European Journal of Operational Research* on “Digitalization and omni-channel retailing” (2018-19)
- Associate editor for Special Issue of *Naval Research Logistics* on “Analytics and Operations of Online Retailing” (2018-19)
- Ad hoc refereeing: *Management Science*, *Operations Research*, *Manufacturing and Service Operations Management*, *Operations Research Letters*, *Naval Research Logistics*, *Production and Operations Management*, *European Journal of Operational Research*, *IEEE Transactions on Engineering Management*, *Decision Sciences*, *Annals of Operations Research*, *INFORMS Journal on Computing*, *Journal of the Operational Research Society* (2006-now)

## Teaching Experience

- Sustainable Supply Chains (4 hour class), June 2023, to visiting MBA students to UT Dallas.
- Retail Operations (OPRE 6341), 2013-now, Graduate level, UT Dallas
- Operations Management (OPRE 6302), 2024, Executive MBA, UT Dallas
- Operations Management (OPRE 6302), 2013-now, Graduate level (MS, FT-MBA), UT Dallas

- Guest lecturer (one lecture) at North Carolina State University (March 2018)
- Inventory Management of Perishable Products to Minimize Waste, 2017, Ph.D. level, MIT-Zaragoza Logistics Center, Zaragoza, Spain
- Operations Management (core), 2011, MBA level, Indian School of Business
- Inventory Control, Ph.D. level, Eindhoven University of Technology
- Retail Operations, 2011-13, Masters level, Eindhoven University of Technology
- Microeconomics, 2011-13 Bachelor level, Eindhoven University of Technology
- Logistics and Inventory Management, 2007-11, Undergraduate level, University of Texas at Austin
- Operations Management, 2006-11, Undergraduate level, University of Texas at Austin
- Operations Practicum, 2007, MBA level, University of Texas at Austin
- Advanced Topics in Inventory Management, 2008, Ph.D. level, MIT-Zaragoza Logistics Center, Zaragoza, Spain
- Competitive Advantages from Operations, 2005, Undergraduate level, New York University

### **Ph.D. student supervision**

- Parisa Shahsavand (2021-now)
- Zhichao Feng, University of Texas Dallas (2015-2020)
- Ismail Kirci, University of Texas Dallas (2015-2018)
- Yulia Vorotyntseva, University of Texas Dallas (2015-2019)
- Ying Cao, University of Texas Dallas (2013-2017)
- Bharadwaj Kadiyala, University of Texas Dallas (2014-2017)
- Jiwen Ge, Eindhoven University of Technology (2013-2016)
- Anna Franceschetti, Eindhoven University of Technology, (2011-2015)
- Xiajun Amy Pan, University of Texas at Austin, (2007-2009): co-chair of her thesis committee
- Sreelata Jonnalagedda, University of Texas at Austin (2007-2009): member of her thesis committee

### **Service**

- Board member, INFORMS Pride forum (2023-now)
- Member of the organizing committee for the JSOM Sustainability Case competition (2023)
- Member of hiring Committee Meeting for ODEI Associate Vice President of Equity Research and Resource Centers (2022)
- Member of the promotion committee for Bin Hu (2022)
- Advisor of the JSOM Ph.D. social club (2022-now)
- Advisor of the Pride at JSOM social club (2022-now)
- Member of the UTD Steering Committee on Renewable energy (2022-now)
- Member of the UTD SEA Change committee (2022-now)
- Member of the INFORMS Professional Recognition Committee (2023-now)
- Chair of the DEI committee for the Revenue Management and Pricing section of INFORMS (2022-now)
- Member of the Search Committee Meeting for Dean, Hobson Wildenthal Honors College (Summer 2022)
- Chair of the UTD Sustainability Committee (2020-now)
- Member of UTD Senate (August 2022-now)
- Member of the JSOM Academic Advisory Committee (2019-now)

- ▶ Chair of the JSOM student research committee (2020-22)
- ▶ Co-Chair of the Retail Operations Track for the 2021 POMS conference
- ▶ Co-Chair of the Retail Operations Track for the 2020 International POMS conference (cancelled)
- ▶ Co-Chair of the Retail Operations Track for the 2020 POMS conference (cancelled)
- ▶ Member of the JSOM Teaching Award committee (2019-now)
- ▶ Vice-President for Meetings of the MSOM Society (2019-20)
- ▶ Member of the Jury for the 2019 INFOMS poster session (2019)
- ▶ President of the College of Supply Chain Management of the POMS society (2018-20)
- ▶ Member of the Dantzig Dissertation Award committee (2018-20)
- ▶ Past President of the Women in Operations Research and Management Science (WORMS) forum of INFORMS (2019)
- ▶ Chair of the Retail Operations Track for the 2019 POMS conference
- ▶ Organizer and host of evening session of the Beer Game with the Supply Chain Leadership Council in (March and November 2019)
- ▶ Member of the JSOM Undergraduate Research committee (2018-19)
- ▶ Panelist in session on work/life balance at the INFORMS Doctoral Colloquium (November 2018)
- ▶ Co-chair of the 2018 MSOM conference planning committee
- ▶ Panelist in DocNet Recruitment Forum at JSOM (November 2018)
- ▶ Member of third year review committee for Shouqiang Wang (2018)
- ▶ Member of the Selection Committee for the POMS 2018 Wickham Skinner Early Career Research Award
- ▶ President of the Women in Operations Research and Management Science (WORMS) forum of INFORMS (2018)
- ▶ Member of the Hiring Committee for Bin Hu (2018)
- ▶ Faculty advisor for the Global Student Challenge 2017-2018
- ▶ Chair of the POMS mentoring initiative 2017-2019
- ▶ President-Elect of the College of Supply Chain Management of the POMS society (2017-18)
- ▶ President-Elect of the Women in Operations Research and Management Science (WORMS) forum of INFORMS (2017)
- ▶ Judge for the 2017 Best Student Paper award of the College of Supply Chain Management of the POMS society (2007)
- ▶ Case-writer and judge for the Fall 2016 INFORMS Operations Management Poster competition 2.0., Naveen Jindal School of Management, UT Dallas (Fall 2016)
- ▶ Judge for the 2016 INFORMS Junior Faculty Interest Group (JFIG) paper competition
- ▶ Member of the faculty recruiting committee, Operations Management, Naveen Jindal School of Management (2016-17)
- ▶ Member of the Ad Hoc Committee for granting of Tenure and Promotion to the Rank of Associate Professor for Lindsay King (2016-17)
- ▶ Member of the Ad Hoc Committee for mid-probationary review for Anyan Qi (2016-17)
- ▶ VP of Communication, College of Supply Chain Management of the POMS society (2015-now)
- ▶ Senior VP of meetings of the Women in Operations Research and Management Science (WORMS) forum of INFORMS (2016-2017) (2016-2017)
- ▶ Track chair for the 2016 POMS Annual Meeting
- ▶ Member of the JSOM Undergraduate Research Funding Scholarship committee (2015-now)
- ▶ Member of the 2015 World Conference in Havana, Cuba Steering Committee (2015 – 2016)
- ▶ Member of the University of Texas at Dallas senate (2015-2016)
- ▶ Judge for the 2015 College of Supply Chain Management Student Paper Competition (May 2015)

- Member of the Clinical Professor / Senior Lecturer recruiting committee, Operations Management, Naveen Jindal School of Management, UT Dallas (2015)
- Junior VP of meetings of the Women in Operations Research and Management Science (WORMS) forum of INFORMS (2015-2016)
- Case-writer and judge for the 2015 MBA Case competition, Naveen Jindal School of Management, UT Dallas (2015)
- Board member of the Production and Operations Management Society (2014-2016)
- Member of the Ph.D. student recruiting committee, Operations Management, Naveen Jindal School of Management (2014, 2015)
- Member of the faculty recruiting committee, Operations Management, Naveen Jindal School of Management (2013-14, 2014-15)
- Co-chairing the Production and Operations Management Society College of Supply Chain Management 2013 Best Student Paper Competition (2013-14)
- Chaired the INFORMS Future Academician Colloquium at the Annual meeting in Austin (2010)
- Member of the IROM Department's Executive Committee at the McCombs School of Business of the University of Texas at Austin (2009-11)
- Member of the faculty recruiting committee, Operations Management, McCombs School of Business, University of Texas at Austin (2006-2009)

## **Professional Affiliations**

- INFORMS, Production and Operations Management Society (POMS), College of Supply Chain Management, Manufacturing & Service Operations Management Society (M&SOM), Women in OR/MS (WORMS), Consortium for Operations Excellence in Retailing (COER), Supply Chain Thought Leaders Group (2020-Now)

## **Personal Information**

- Citizenship: Belgian and American.
- Languages: French (native language), English (fluent), Dutch (basic), Spanish (basic)
- Hobbies: running, yoga, traveling, photography, gardening.