

Dennis Z. Yu, Ph.D.

Curriculum Vitae

*The David D. Reh School of Business
Clarkson University
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PROFESSIONAL ACADEMIC EXPERIENCE

Associate Dean of Graduate Programs and Research, July 2018 – present
The David D. Reh School of Business, Clarkson University

Associate Professor of Operations and Information Systems, February 2013 – present
The David D. Reh School of Business, Clarkson University

Assistant Professor of Operations and Information Systems, August 2006 – February 2013
School of Business, Clarkson University

Visiting Research Professor, June 2012 & February 2014. Department of Logistics and
Maritime Studies, Faculty of Business, The Hong Kong Polytechnic University

Teaching/Research Assistant–Lecturing sessions of Operations Management courses
(Undergraduate, MBA, EMBA), 2003 – 2005. Washington University in St. Louis

Teaching Assistant–Teaching tutorials of Operations Management and Information
Technology (Undergraduate), 2000 – 2001. The Hong Kong Polytechnic University

EDUCATION

Ph.D. in Operations and Manufacturing Management, 2006
Olin Business School, Washington University in St. Louis

M.S. in Business Administration, 2004
Olin Business School, Washington University in St. Louis

Ph.D. in Operations Research, 2002
Department of Management, The Hong Kong Polytechnic University

B.E. in Mechanical Engineering, 1996
School of Energy & Power Engineering, Xi'an Jiaotong University, China

RESEARCH

Refereed Publications

Peng, Y., Liu, S., and **Yu, D. Z.**, “An Improved Car-Following Model with Consideration of Multiple Preceding and Following Vehicles in a Driver’s View”. *Physica A: Statistical Mechanics and its Applications*, vol. 538, 2020.

Yu, D. Z., Sun, D., and Cheong, T., “Impact of Supply Chain Power and Drop-Shipping on a Manufacturer’s Optimal Distribution Channel Strategy”. *European Journal of Operational Research*, vol. 259, no. 2, pp. 554-563, 2017.

Yu, D. Z. and Xiang, C., “A Manufacturer’s Production and Pricing Strategies with a Salvage Channel”. *International Journal of Production Research*, vol. 55, no. 2, pp. 347-357, 2017.

Yu, D. Z., Zhao, X., and Sun, D., “Optimal Pricing and Capacity Investment for Delay-Sensitive Demand”. *IEEE Transactions on Engineering Management*, vol. 60, no. 1, pp. 124-136, 2013.

Yu, D. Z., “Product Variety and Vertical Differentiation in a Batch Production System”. *International Journal of Production Economics*, vol. 138, no. 2, pp. 314-328, 2012.

Mahapatra, S., **Yu, D. Z.**, and Mahmoodi, F., “Impact of the Pull and Push-Pull Policies on the Performance of a Three-Stage Supply Chain”. *International Journal of Production Research*, vol. 50, no. 16, pp. 4699-4717, 2012.

Chayet, S., Kouvelis, P., and **Yu, D. Z.**, “Product Variety and Capacity Investments in Congested Production Systems”. *Manufacturing & Service Operations Management*, vol. 13, no. 3, pp. 390–403, 2011.

Yu, D. Z., Tang, S., and Niederhoff, J., “On the Benefits of Operational Flexibility in a Distribution Network with Transshipment”. *Omega – The International Journal of Management Science*, vol. 39, no. 3, pp. 350-361, 2011.

Kouvelis, P., Chambers, C., and **Yu, D. Z.**, “Manufacturing Operations Manuscripts Published in the First 52 Issues of POM: Review, Trends, and Opportunities”. *Production and Operations Management*, vol. 14, no. 4, pp. 450-467, 2005.

Yan, H., **Yu, Z.**, and Cheng, T. C. E., “A Strategic Model for Supply Chain Design with Logical Constraints: Formulation and Solution”. *Computers and Operations Research*, vol. 30, no. 14, pp. 2135-2155, 2003.

Yu, Z., Yan, H., and Cheng, T. C. E., “Modeling the Benefits of Information Sharing-Based Partnerships in a Two-Level Supply Chain”. *Journal of the Operational Research Society*, vol. 53, no. 4, pp. 436-446, 2002.

Yu, Z., Yan, H., and Cheng, T. C. E., “Benefits of Information Sharing with Supply Chain Partnerships”. *Industrial Management & Data Systems*, vol. 101, no. 3, pp. 114-119, 2001.

Book Chapters

Chayet, S., Kouvelis, P., and **Yu, D. Z.**, “Product Design, Pricing, and Capacity Investment in a Congested Production System”. *Operations Management Models with Consumer-Driven Demand* (Eds. C. S. Tang and S. Netessine), pp. 229-251, Springer 2009.

Papers under Review

Olsen, M., Sun, D., and **Yu, D. Z.**, “New Product Launch Timing with Uncertain Failure in a Competitive Environment”. Under review at *Production and Operations Management*. (The authors contributed equally and are listed in alphabetical order.)

Hu, S., **Yu, D. Z.**, and Fu, K., “Optimal Warehousing Capacity Allocation for an Online Platform Competing with Retailers”. Revised and resubmitted at *European Journal of Operational Research*.

Working Papers

“Time-dependent Multicriteria Shortest Path Problem in Urban Multimodal Transportation Network with Timetable”, with Yong Peng and Ting Zhao.

“The cumulative Swap-Body Vehicle Routing Problem with Multiple Use of Vehicles”, with Yong Peng and Yuanjun Li.

“Queuing Analysis and Optimization of a Two Gas Station Series”, with Guangcan Xu and Maozeng Xu.

“Product Positioning and Capacity Choices of a Monopolist Facing Uncertain Demand”, with Panos Kouvelis and Sergio Chayet.

“On the Study of Supplier Selection and Allocation Model Considering Reserved Capacity to deal with supply disruption”, with Farzad Mahmoodi and Alex Ruiz Torres.

“Incentives and Reverse Logistics Channels in a Closed-Loop Supply Chain with Remanufacturing”, with Chester Xiang.

“Evaluating the Impact of Pricing and Demand Uncertainty on Optimal Investment Strategies for Flexible Resources”, with Chester Xiang.

“On the Product Design, Production Capacity, and Pricing Choices of Competing Newsvendors”, with Panos Kouvelis and Betul Lus.

“Heuristics for the Stochastic Scheduling of Multi-Product Systems with Both Setup Times and Costs”, with Tava Olsen.

“From Clicks to Bricks and Back again: Virtual and Real Inventory and on-site preview”, with Julie Niederhoff, and Almula Camdereli.

CONFERENCE PAPERS

“On the Study of Pricing and Capacity Allocation Decisions of an Online Platform”, *30th Annual Conference of POMS*, Washington DC, May 2019.

“New Product Launch with Uncertain Failure in a Competitive Environment”, *29th Annual Conference of POMS*, Houston, May 2018.

“A Supplier Selection and Capacity Allocation Model with Supply Disruption Risk”, *28th Annual Conference of POMS*, Seattle, May 2017.

“Impact of Modularity on Product Returns in Supply Chain Sustainability Management”, *27th Annual Conference of POMS*, Orlando, May 2016.

“Inventory and Price Decisions with a Salvage Channel”, *26th Annual Conference of POMS*, Washington DC, May 2015.

“Logistics Provider’s Capacity Decision When Facing Uncertain Demand with Seasonality”, *25th Annual Conference of POMS*, Atlanta, May 2014.

“When Should an Online Retailer Choose Drop-shipping?” *INFORMS Annual Meeting*, Minneapolis, October 2013.

“The Impact of Supply Chain Power Structure on Drop Shipping”, *4th Workshop on Information-Intensive Services*, University of Rochester, May 2013.

“From Clicks to Bricks and Back Again”, *24th Annual Conference of POMS*, Denver, May 2013.

“Capacity and Pricing Strategies in a Competitive Environment with Vertical Differentiation”, *24th Annual Conference of POMS*, Denver, May 2013.

“Impacts of Reverse Logistics Channel Structure on Optimal Incentive Scheme”, *DSI Annual Meeting*, San Francisco, November 2012.

“From Clicks to Bricks and Back Again”, *INFORMS Annual Meeting*, Phoenix, October 2012.

“From Clicks to Bricks and Back Again: Combining online and in-store inventory availability”, *7th Behavioral Research in Operations Management*, Washington DC, June 2012.

“Impact of Supply Chain Power Structure on Drop Shipping Option for an E-tailer”, *23rd Annual Conference of POMS*, Chicago, April 2012.

“The Effects of Salvage Channel Structure on Pricing and Capacity Investment Strategies”, *DSI Annual Meeting*, Boston, November 2011.

“Incentives and Reverse Logistics Channels with Remanufacturing”, *INFORMS Annual Meeting*, Charlotte, November 2011.

“Price and Capacity Competition in a Differentiated Products Duopoly under Demand Uncertainty”, *22nd Annual Conference of POMS*, Reno, April 2011.

“Incentives and Reverse Logistics Channels with Remanufacturing”, *INFORMS Annual Meeting*, Austin, November 2010.

“The Effects of Salvage Channel Structure on Pricing and Capacity Investment Strategies”, *21st Annual Conference of POMS*, Vancouver, May 2010.

“Performance Impact of Push, Pull, and Push-Pull Operations Policy Under Demand and Lead time Uncertainty in a Multi-Stage Supply Chain”, *21st Annual Conference of POMS*, Vancouver, May 2010.

“Impact of Different Operational Strategies on the Performance of a Multi-Stage Supply Chain”, *DSI Annual Meeting*, New Orleans, November 2009.

“Vertical Differentiation and Capacity Planning when the Market's Potential and Size are Uncertain”, *INFORMS Annual Meeting*, San Diego, October 2009.

“Capacity Investment Strategy with a Salvage Channel”, *INFORMS Annual Meeting*, San Diego, October 2009.

“Impacts of Pricing and Demand Uncertainty on Optimal Investment Strategies for Flexible Resources”, *Twentieth Annual Conference of POMS*, Orlando, May 2009.

“Impact of Push, Pull and Push-Pull Operations Strategies on the Performance of a Multi-Stage Supply Chain”, *DSI Annual Meeting*, Baltimore, November 2008.

“The Role of Flexibility on Product Line Design for Congested Production Systems”, *INFORMS Annual Meeting*, Washington DC, October 2008.

“Product Line Design and Capacity Planning under Demand Uncertainty”, *INFORMS Annual Meeting*, Washington DC, October 2008.

“Optimal Expected Delay Pricing and Capacity Investment in a Service System”, *Nineteenth Annual Conference of POMS*, San Diego, May 2008.

“Product Variety and Congested Production Systems: Capacity Investments and Vertical Differentiation”, *INFORMS Annual Meeting*, Seattle, November 2007.

“Product Line Design: Variety, Mass Customization and Economies of Scale”, *INFORMS International Meeting*, Puerto Rico, July 2007.

“Product Line Design and Production System: Variety, Capacity Investment, and Risk Pooling”, *Eighteenth Annual Conference of POMS*, Dallas, May 2007.

“Product Line Design: Variety, Mass Customization and Economies of Scale”, *INFORMS Annual Meeting*, Pittsburgh, November 2006.

“Product Line, Pricing, and Capacity Choices of a Monopolist Facing Uncertain Demand”, *MSOM Conference*, Atlanta, June 2006.

“Optimal Decisions on Product Differentiation, Capacity Setting and Pricing with Customer Demand Uncertainty”, *DSI Annual Meeting*, San Francisco, November 2005.

“Optimal Capacity Setting and Product Differentiation with Customer Demand Uncertainty”, *INFORMS Annual Meeting*, San Francisco, November 2005.

“On the Study of Operational Flexibility in a Supply Chain with Transshipment”, *Sixteenth Annual Conference of POMS*, Chicago, April 2005.

“On Benefits of Flexibility in a Supply Chain with Transshipment”, *INFORMS Annual Meeting*, Denver, November 2004.

“Coordinating Supply Chain Partners with Supplier’s Reliability”, *The 3rd Asia Pacific Conference on IE & MS*, Hong Kong, December 2000.

“Modeling Information Sharing-Based Supply Chain Partnership”, *INFORMS Annual Meeting*, Philadelphia, November 1999.

“Including Logical Constraints in Supply Chain Design Model for BOM Formulation”, *International Conference on Global Supply Chain Management: Into the 21st Century*, Hong Kong, August 1999.

TEACHING INTEREST

Operations Research, Decision Analysis and Spreadsheet Modeling,
Operations Management, Supply Chain Management, Global Operations and Logistics,
Supply Chain Environmental Management, Sustainability, Closed-Loop Supply Chains
Service Operations and Revenue Management, Management Science,
New Product Development and Management of Technological Innovations.

TEACHING EXPERIENCE

Undergraduate and MBA Courses at Clarkson University

OM671 Supply Chain Environmental Management (MBA elective)	2019, 2021
OM602 Decision Analysis & Supply Chain Modeling (MBA core)	2007-2020
EM/ES456 Interdisciplinary Process Engineering and Design	2010-2018
EM333 Elements of Operations Research	2009-2018
OM/EM476 Management of Technology	2007-2008
OM415 Supply Chain Systems Design and Management	Fall 2006

Distance Learning (Online) MBA at Clarkson University

OM603 Decision Analysis & Supply Chain Modeling (Online MBA core)	2010-2018
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Honors Program at Clarkson University

Advisor of honors thesis, Ellyn Weston of E&M Class 2010	2008-2010
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Executive Instruction at Clarkson University

Instructor, Global Supply Chain Management Executive Seminar	2007-2018
Faculty Advisor, Rural Healthcare Leadership Development Program	2014-2016
Instructor, Hand Held Products GSCM Executive Seminar	Oct. 2007

Sessions of Courses at Washington University in St. Louis

Lecturer, Session of "Waiting Line Management Theory" in OSCM 356 Operations Management (taught by Prof. Yossi Aviv)	Oct. 2005
Lecturer, Session of "Using Minitab as a Business Forecasting Tool" in EMBA 750 Operations Management (taught by Prof. Panos Kouvelis)	Jul. 2006 Mar. 2006 Jul. 2005
Lecturer, Session of "Revenue Management" in OSCM 356 Operations Management (taught by Prof. Yossi Aviv)	Apr. 2005
Lecturer, Sessions of introducing and debriefing "Littlefield Technologies Simulation" in EMBA 750 Operations Management (taught by Prof. Panos Kouvelis)	Feb. 2004
Lecturer, Sessions of introducing and debriefing "Littlefield Technologies Simulation" in OMM 5700 Operations Management (MBA core taught by Prof. Panos Kouvelis)	Nov. 2003

Undergraduate Courses at The Hong Kong Polytechnic University

Instructor, Operations Management	Spring 2001
Instructor, Information Technology for Business	Fall 2000

UNIVERSITY SERVICES

Member, University Research Advisory Committee, from Fall 2020

Member, University Academic Space Committee, from Fall 2020
Member, University Faculty Development & Programming Committee, from Spring 2020
Member, Student Assessment of Learning Outcomes Assessment Committee, Spring 2020
Member, Clarkson University Advocates & Allies Committee, from Spring 2020
Member, University Administrative Council, from Fall 2019
Member, CUSB Strategic Planning Committee, Spring 2019 – present
Ex-Officio, CUSB Faculty Development Committee, Fall 2018 – present
Ex-Officio, CUSB Graduate Policy Committee, Fall 2018 – present
Member, CUSB Information Systems Search Committee, Fall 2019 – Spring 2020
Chair, CUSB Sourcing Search Committee, Fall 2017 – Spring 2018
Chair, CUSB Graduate Policy Committee, Summer 2017 – Summer 2018
Member, Clarkson University Tenure Committee, Fall 2015 – Spring 2018
Member, CUSB Graduate Policy Committee, Summer 2016 – Summer 2017
Member, Clarkson University Curriculum and Policy Committee, Fall 2015 – Summer 2018
Member, Clarkson University Common Experience Committee, Fall 2010 – Summer 2018
Member, CUSB Faculty Development Committee, Fall 2014 – Summer 2015
Member, CUSB Project Management and Logistics Search Committee, Fall 2013 – Spring 2014
Member, CUSB Graduate Admissions Committee, Fall 2012 – Summer 2013
Member, CUSB ESL Committee, Spring 2012 – September 2012
Member, Clarkson University Engineering and Management Program Advisory Committee, Spring 2009 – Summer 2011
Member, CUSB Graduate Policy Committee, Fall 2011 – Summer 2013
Chair, CUSB Undergraduate Policy Committee, Fall 2010 – Summer 2011
Member, CUSB Graduate Policy Committee, Fall 2008 – Summer 2010
Member, CUSB MBA Admissions Committee, Fall 2008 – Summer 2009
Member, CUSB Operations Management/Supply Chain Management Search Committee, Fall 2006 – Spring 2007
Member, CUSB Bachelor of Science in Global Supply Chain Management Curriculum Development Committee, Fall 2006 – Spring 2007

PROFESSIONAL ACTIVITIES

Doctoral Dissertation Committee

External thesis committee member, Gang Yang of IDBA at College of Business, City University of Hong Kong, 2016.

Editorial Services

Associate Editor, *International Journal of Logistics Economics and Globalisation*
Editorial Board Member, *International Journal of Business and Economics Research*
Editorial Board Member, *Journal of Operations and Management Research*

Review Activities

Ad Hoc Reviewer, *Management Science*
Ad Hoc Reviewer, *Operations Research*
Ad Hoc Reviewer, *Manufacturing & Service Operations Management*
Ad Hoc Reviewer, *Production and Operations Management*
Ad Hoc Reviewer, *IIE Transactions*
Ad Hoc Reviewer, *Naval Research Logistics*
Ad Hoc Reviewer, *IEEE Transactions on Engineering Management*
Ad Hoc Reviewer, *European Journal of Operational Research*
Ad Hoc Reviewer, *Decision Sciences Journal*
Ad Hoc Reviewer, *International Journal of Production Economics*
Ad Hoc Reviewer, *International Journal of Production Research*
Ad Hoc Reviewer, *Omega – The International Journal of Management Science*
Ad Hoc Reviewer, *Computers & Industrial Engineering*
Ad Hoc Reviewer, *Transportation Research Part E: Logistics and Transportation Review*
Ad Hoc Reviewer, *Journal of Modelling in Management*
Ad Hoc Reviewer, *International Journal of Logistics: Research and Applications*
Ad Hoc Reviewer, *Journal of Industrial and Management Optimization*
Ad Hoc Reviewer, *Journal of Advanced Transportation*

Professional Services

Track Chair, Marketing and Operations Management Track at the 31st Annual Conference of POMS, ONLINE, April 2021.
Session Chair, Supply Chain Management: Demand Uncertainty, Blockchain Technology & Online Retailing at the 30th Annual Conference of POMS, DC, May 2019.
Session Chair, Closed-Loop Supply Chains Track at the 27th Annual Conference of POMS, Orlando, May 2016.
Discussant, 5th Biennial Information Intensive Services Workshop, Syracuse University, September, 2015.
Session Chair, Logistics & Scheduling Track at the 25th Annual Conference of POMS, Atlanta, May 2014
Session Chair, Manufacturing Operations Track at the 24th Annual Conference of POMS, Denver, May 2013.
Session Chair, Closed Loop and Reverse Logistics Track at the 2012 Annual DSI Meeting, San Francisco, November 2012.
Session Chair, Vendor and Supply Contracts Track at the 23rd Annual Conference of POMS, Chicago, April 2012.
Session Chair, Operations Management Competition Track at the 22nd Annual Conference of POMS, Reno, April 2011.
Session Chair, Pricing Strategy and Distribution Channels Track at INFORMS Annual Meeting, San Diego, October 2009.
Session Chair, Impact of Pricing Policy Track at the 20th Annual Conference of POMS, Orlando, May 2009.

Session Chair, Modeling in Service Research Track at the *19th Annual Conference of POMS*,
San Diego, May 2008.

Discussant, *2nd Workshop on Information Intensive Services*, Univ. of Rochester, May 2008.

Session Chair, Logistics & Scheduling Track at the *25th Annual Conference of POMS*,
Atlanta, May 2014

Professional Memberships

Institute for Operations Research and Management Science (INFORMS)

Manufacturing and Service Operations Management (MSOM)

Production Operations Management Society (POMS)

Decision Sciences Institute (DSI)

AWARDS AND HONORS

Beta Gamma Sigma Honor Society	2013
INFORMS Future Academician Colloquium Fellow, San Francisco	2005
CIBER Operations Doctoral Consortium Fellow, Purdue University	2005
Doctoral Fellowship, Olin School of Business, Washington University	2001-2006
Research Scholarship, The Hong Kong Polytechnic University	1998-2001