

## Xiaosong (David) Peng

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### **EDUCATION**

- **Doctor of Philosophy in Business Administration**  
 University of Minnesota  
 Major Field: Operations and Management Science  
 Support Field: Management Information Systems
- **Master of Information Systems Management**  
 Carnegie Mellon University
- **B.S. in Business Administration**  
 Beijing Institute of Technology

### **ACADEMIC APPOINTMENT**

- **Dean's Chair Professorship and Department Chair** 08/2020-present  
 College of Business  
 Lehigh University
- **Associate Professor (with tenure)** 09/2015-06/2020  
**Assistant Professor** 09/2012-08/2015  
 Department of Information and Decision Sciences  
 C.T. Bauer College of Business  
 University of Houston
- **Assistant Professor** 8/2007-08/2012  
 Department of Information and Operations Management  
 Mays Business School  
 Texas A&M University
- Visiting Professor** 06/2019-present  
 Dongwu Business School  
 Soochow University

### **RESEARCH AND TEACHING INTERESTS**

- **Operations and Supply Chain Strategy**  
 Service operations strategy  
 Healthcare supply chain management  
 Strategic sourcing  
 Coordination of healthcare value chain
- **Impact of Technologies on Operations and Supply Chains**  
 Information technology impact upon OM/SCM (e.g., RFID, enterprise systems, EHR)  
 Health IT interoperability

- **Empirical/Econometric Analysis of Operations and Supply Chains**  
Empirical/econometric analysis of transactional data and panel data from manufacturing and service systems
- **Empirical Research Methods**

## AWARDS, GRANTS AND FELLOWSHIP

### Research Awards and Grants

- Association of Supply Chain Management Research Grant (\$94,500) 2019-2022  
Topic: Healthcare supply chain integration
- Academy of Management OM division Best Student Paper Finalist, PhD Advisor 2019
- Decision Science Institute Annual Conference Best Inter-Disciplinary Paper Award 2017
- Ministry of Education of China Research Award 2015
- Decision Science Institute Annual Conference Best Paper Award Finalist 2015
- Lucile and Leroy Melcher Excellence in Research Award 2014  
C.T. Bauer College of Business, University of Houston
- Chan Hahn Best Paper Award Finalist, Academy of Management 2006, 2014
- University of Houston small research Grant 2013
- Honorable Mention, Council of Supply Chain Management Professional (CSCMP) conference paper competition 2010
- Center for Management Information Systems Summer research grant 2009  
Texas A&M University
- Honorable mention, Elwood S. Buffa Dissertation Award Competition 2008  
Decision Sciences Institute (Ranked in the top 3 among the 20 submitted dissertations)
- Emerging scholar program, Production and Operations Management Society 2008
- Juran Fellowship, Juran Center for Leadership in Quality 2005, 2006  
University of Minnesota

### Service/Editorial Awards

- Decision Science Institute Achievement Recognition 2017
- Academy of Management Conference OM Division Best Reviewer Award 2014, 2016
- Journal of Operations Management Associate Editor Service Award 2015
- Production and Operations Management Society Best Reviewer Award 2015
- Journal of Operations Management Best Associate Editor Award 2014
- Journal of Operations Management Best Reviewer Award 2011

## RESEARCH AND SCHOLARSHIP

### Journal articles

1. Ding, X., Peng, D.X., Heim, G. (2019). Service Mix, Market Competition, and Cost Efficiency: A Longitudinal Study of U.S. Hospitals, Accepted, *Journal of Operations Management*
2. Peng, D.X., Yuan, Y., Feng, B., Ding, X., Heim, G. (2019). Impacts of Hospital Complexity on Experiential Quality: Mitigating Role of Information Technology, Accepted, *Decision Sciences*
  - Research with Bauer College of Business PhD student Yuan Ye
3. Liu, W., Shi, Chen, Peng, D.X. (2019), The Effects of Mergers and Acquisitions Announcements on Shareholder Value in the Logistics Industry, Accepted, *International Journal of Shipping and Transport Logistics*
4. Lu, G., Ding, X., Peng, D.X., Addressing Endogeneity in OM Research: A Literature Review and Practical Guide, (2018), *Journal of Operations Management*
5. Peng, D. X., Lu, G., (2017). "Exploring the Impact of Delivery Performance on Customer Transaction Volume and Unit Price: Evidence from an Assembly Manufacturing Supply Chain", *Production and Operations Management*, 26(5), 880-902
  - Research with Mays Business School PhD student Guanyi Lu
6. Perdikaki, O., Peng, D.X., Heim, G.R. (2015). "Impact of Customer Traffic and Service Process Outsourcing Levels on e-Retailer Performance", *Production and Operations Management*, 24(11), 1794-1811
7. Bregman, R., Peng, D.X., Chin, W. (2015) "The Effect of Controversial Global Sourcing Practices on the Ethical Judgments and Intentions of U.S. Consumers", *Journal of Operations Management*. (36) 229-243
8. Peng, D. X., Heim, G.R., Mallick, D. (2014). "Collaborative Product Development: The Effect of Project Complexity on the Use of Information Technology Tools and New Product Development Practices." *Production and Operations Management*, 23(8), 1421-1438.
9. Chuang, H. H.-C., Lu, G., Peng, D.X., Heim, G.R. (2014). "Impact of Value-Added Service Features in E-Retailing Processes: An Econometric Analysis of Website Functions." *Decision Sciences*, 45(6), 1159-1186
  - Research with Mays Business School PhD students Howard Chun Chuang and Guanyi Lu
10. Heim, G. R., Peng, D.X., Jayanthi, S. (2014). "Longitudinal Analysis of Inhibitors of Manufacturer Delivery Performance." *Decision Sciences*, 45(6), 1117-1158
11. Koufteros, X., Peng, D.X., Lu, G., Peters, R. (2013). "The Impact of Organizational Structural Design on Internal and External Integration: An Empirical Assessment and a Cross-Regional Examination." *Journal of Organization Design*.
  - Research with Mays Business School PhD student Guanyi Lu
12. Peng, D. X., Verghese, A., Shah, R., Schroeder, R. (2013). "The Relationships between External Integration and Plant Improvement and Innovation Capabilities: The Moderation Effect of Product Clockspeed." *Journal of Supply Chain Management*, 49(3), 3-24.
  - Research with Mays Business School PhD student Anto Verghese

13. Peng, D. X., Lai, F. (2012). "Using Partial Least Squares in Operations Management Research: A Practical Guideline and Summary of Past Research." *Journal of Operations Management*, 30(6), 467-480.
14. Heim, G. R., Mallick, D., Peng, D.X. (2012). "Antecedents and Consequences of New Product Development Practices and Software Tools: An Exploratory Study." *IEEE Transactions on Engineering Management*, 59(3), 428-442.
15. Teixeira, R., Koufteros, X., Peng, D.X. (2012). "Organizational Structure, Integration, and Manufacturing Performance: A Conceptual Model and Propositions." *Journal of Operations and Supply Chain Management*, 5(1), 69-81.
16. Peng, D. X., Liu, G., Heim, G.R. (2011). "Impacts of Information Technology on Mass Customization Capability of Manufacturing Plants." *International Journal of Operations & Production Management*, 31(10), 1022 - 1047.
17. Peng, D. X., Schroeder, R.G, Shah, R. (2011). "Competitive Priorities, Plant Improvement and Innovation Capabilities, and Operational Performance: A Test of Two Forms of Fit." *International Journal of Operations & Production Management*, 31(5), 484 - 510.
18. Schroeder, R. G., Shah, R., Peng, D.X. (2010). "The Cumulative Capability ‘Sand Cone’ Model Revisited: A New Perspective for Manufacturing Strategy." *International Journal of Production Research*, 49(16), 4879-4901.
19. Heim, G. R., Peng, D.X. (2010). "The Impact of Information Technology Use on Plant Structure, Practices, and Performance: An Exploratory Study." *Journal of Operations Management*, 28(2), 144-162.
20. Heim, G. R., Wentworth Jr, W.R., Peng, D.X. (2009). "The Value to the Customer of RFID in Service Applications." *Decision Sciences*, 40(3), 477-512.
21. Peng, D. X., Schroeder, R.G., Shah, R. (2008). "Linking Routines to Operations Capabilities: A New Perspective." *Journal of Operations Management*, 26(6), 730-748.

### Conference proceedings

1. Peng, D.X., Chen, Y., Ye, Y. (2019) “Does Hospital Acquisition Lead to Quality Improvements? The Roles of Geographical Proximity and Service Line Similarity” **Best Conference Paper Proceedings**, *Academy of Management Conference*, Boston, MA
2. Fan, L., Zhao, M., Peng, D.X. (2019) “Differentiating Hospital Transfer Types: Varied Impacts on LOS and Destination Choices”, **Best Conference Paper Proceedings**, *Academy of Management Conference*, Boston, MA
3. Bregman, R., Peng, D.X., Chin, W (2014) “An Evaluation of U.S. Consumer Perceptions of Controversial Global Sourcing Practices” **Best Conference Paper Proceedings**, *Academy of Management Conference*, Philadelphia, PA

4. Ding, X., Peng, D. X. (2013). "Technology Implementation, Experience and Hospital Focus – A Longitudinal Analysis of Electronic Medical Records in Acute Care Hospitals", *Production and Operations Management Annual Meeting*, Denver, CO
5. Peng, D.X., Heim, G.R. (2012). Supply Chain Complexity and Delivery Performance for Assemble to Order and Make to Stock Items", *The Proceedings for the North American Research Symposium on Purchasing and Supply Chain Management*, Phoenix, AZ
6. Peng, D. X., Jayanthi, S., Heim, G. (2010) "Drivers of Delivery for Build-to-Stock Items in a Multi-Product Manufacturing Environment", **Best Paper Finalist**, *Council of Supply Chain Management Professionals Global Conference*, San Diego, CA
7. Teixeira, R., Koufteros, X. Peng, D.X. (2008) "The Relationship between Organizational Structure and Integration: the Effects on Manufacturing Performance", *Decision Science Conferences*, Baltimore, MD
8. Peng, D. X., Schroeder, R., and Shah, R. (2006) "Exploitation and Exploration in the Manufacturing Plant: the Definitions and Measurement", **Best Conference Paper Proceedings**, *Academy of Management Conference*, Atlanta, GA

### **Book Chapters**

1. Bregman, R., Peng, D.X., 2015. An Analysis of the Effects of Global Sourcing Practices on Ethical Consumption in the United States, in Warkentin, M. (Eds.) *Trends and Research in the Decision Sciences: Best Papers from the 2015 Annual Conference* (FT Press Analytics)

### **Research Report**

1. Peng, D.X., Heim, G.R., Supply Management Integration into Demand Management: Current State and Future Developments. Research conducted for *Center for Advanced Procurement Strategy (CAPS) Research*

### **Research Papers under Review**

1. Ding, X., Peng, D.X., Electronic Medical Records and Hospital Performance – A Longitudinal Analysis of U.S. Acute-Care Hospitals, conditional acceptance, *Decision Sciences*
2. Fan, L., Zhao, M., Peng, D.X. Differentiating Interhospital Transfer Types: Varied Impacts and Diverging Destination Choice Strategies, invited or revision at *Production and Operations Management*
  - Research with Bauer College of Business PhD students Raymond Lei Fan
3. Forero, S., Johnson, N., Peng, D.X. When Emotion Gets in the Way: An Experimental Analysis of Demand-Chasing in the Newsvendor, under review at *Management Science*
4. Peng, D.X., Flynn, B., Narayanan, A., Fan, R., Impact of Supply Chain Integration on Hospital Performance: The Role of Focus, under review at *Decision Sciences*
  - Research with Bauer College of Business PhD student Raymond Lei Fan
5. Peng, D.X., Yuan, Y., Ding, X., Chandrasekaran, A., Uncover the Black Box of Slack-Performance Relationship: A Unit Level Investigation of the Impacts of Nurse Slack on Quality and Cost, under review at *Journal of Operations Management*

6. Cheng, Y., Peng, D.X., Ye, Y., Do Acquisitions Improve Hospital Operating Performance? The Roles of Geographic proximity and Service Line Similarity, Under review at *Production and Operations Management*

- a. Research with Bauer College of Business PhD student Yuqiao Chen

### **Research Papers in Progress**

1. Jayanthi, S., Peng, D. X., Heim, G. Strategy Implementation Dynamics in Manufacturing Supply Chains, to be submitted to *Management Science*
2. Yuan, Y., Peng, D.X., Narayanan, A., An Empirical Investigation of Governance Choices in Service Outsourcing, to be submitted to *Journal of Operations Management*
3. Lu, G., Peng, D.X., Du. R. D. Can consistency improve performance? The effect of work schedule regularity on cashier productivity, first draft completed
4. Fan, L., Peng, D.X., Zhao, M. Impacts of Electronic Health Record Interoperability on Inter-hospital Transfer
5. Verghese, A., Peng, D.X., Narayanan, A., Examining the Antecedents and Consequences of “The Speed to Recall” on Recall Completion, first draft completed
6. Peng, D.X., Heim, G.R., The Effects of Supply Chain Complexity, Product Complexity, and Customer Purchase Volume on Delivery Performance: An Order-Level Analysis”, (Revising based on reviewer feedback)
7. Peng, D.X., Heim, G.R., Choobineh, J. “Social Networking Services, E-Retailer Site Traffic, and Web Sales: An Empirical Analysis” (Revising based on reviewer feedback)
8. Ma, X., Peng, D.X., Optimizing Simultaneous Prediction of Behavior Risk and Customer Value in Online Gamblers: A Deep-Learning Approach, data analysis underway

### **SERVICE ACTIVITIES**

#### **Service to the Profession/Academic Discipline**

##### *Editorial positions*

- Special issue co-editor, *Journal of Operations Management* 2019-2020  
Topic: Technology Management
- Senior Editor, *Production and Operations Management* 2017-pres.
- Associate Editor, *Journal of Operations Management* 2011-pres.
- Associate Editor, *Decision Sciences Journal* 2014-pres.
- Associate Editor, *Journal of Supply Chain Management* 2016-pres.
- Special Issue Senior Editor, *Production and Operations Management* 2015
- Editorial Review Board, *Production and Operations Management* 2017-pres.
- Editorial Review Board, *Journal of Operations Management* 2009-pres.

##### *Ad hoc reviewer*

- International Journal of Production and Operations Management

- International Journal of Production Economics
- IEEE Transactions of Engineering Managements
- Service Sciences

### **Service to University of Houston**

- |   |                        |
|---|------------------------|
| ▪ Supply Chain Management PhD program coordinator                             | 2019-present           |
| ▪ Bauer Healthcare Initiative Task Force                                      | 2019-Present           |
| ▪ University of Houston Faculty Senator Library Committee                     | 2019                   |
| ▪ Bauer College of Business Healthcare Initiatives                            | 2019                   |
| ▪ Bauer Executive Doctor of Business Administration Task Force                | 2019                   |
| ▪ Graduate Curriculum Committee, Bauer College of Business                    | September 2018 – pres. |
| ▪ Graduate Grievance Committee, Bauer College of Business                     | 2019                   |
| ▪ PhD students recruiting and placement task force, Bauer College of Business | 2019                   |
| ▪ University of Houston Faculty Senator Undergraduate Committee               | 2015-2016              |
| ▪ Departmental faculty recruiting committee                                   | 2015, 2018, 2019       |

### **Services to professional societies**

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|---|------------|
| ▪ POMS China Conference Program Committee   | 2019       |
| ▪ POMS national conference track chair  | 2018       |
| ▪ POMS PITM College mini-conference Organizing Committee member   | 2017       |
| ▪ Shoochow University International Research Workshop, Program Co-chair                                   | 2017-2019  |
| ▪ Decision Science Institute Best Paper Award Coordinator   | 2016-2018  |
| ▪ Decision Science Institute Marketing Committee  | 2016-2018  |
| ▪ Secretary, Academy of Management Operations Management Division   | 2015-2017  |
| ▪ Decision Sciences Institute Publication Committee   | 2014-2016  |
| ▪ Decision Sciences Institute Annual Conference track chair   | 2014, 2015 |
| ▪ POMS conference (2016) invited session organizer  | 2015       |
| ▪ Scientific Program Committee, PLS user conference   | 2015       |
| ▪ <i>Decision Science Journal</i> Editor Search Committee   | 2014       |
| ▪ Panel discussant in new faculty development consortium<br>Decision Sciences Institute Annual Conference | 2013       |
| ▪ Member of Chan Hahn Best Paper Award selection committee<br>Academy of Management                       | 2013, 2014 |
| ▪ Judge for Elwood S. Buffa Doctoral Dissertation Competition<br>Decision Science Institute               | 2013, 2014 |
| ▪ Panel discussant in doctoral student consortium<br>Decision Science National Conference                 | 2011, 2014 |
| ▪ Program committee member, Asia Pacific Decision Science Conference                                      | 2010       |

- Faculty development workshop coordinator, Asia Pacific Decision Science Conference 2009
- Juran Fellowship Awards Judge, Juran Center for Leadership in Quality 2009
- Session chair
  - Academy of Management Conference 2007, 2014, 2015, 2019
  - POMS conference 2009
  - Decision Science Conference 2008
  - POMS International Conference 2007
- Ad hoc reviewer
  - Academy of Management Conference 2005-2007, 2014
  - Decision Sciences Conference 2005-2009, 2014
  - Council of Supply Chain Management Professional Conference 2009

## **TEACHING**

### **University of Houston**

- Supply Chain Strategy (MS in SCM major course, MBA elective) 2018-2019
- Empirical Research in Operations and Supply Chain Management (Doctoral seminar) 2013- 2015
- Strategic Supply Management (MBA Elective) 2014-2017
- Strategic Supply Management (Undergraduate SCM major course) 2013-2017

### **Texas A&M University**

- Introduction to Supply Chain Management (Undergraduate Business core course) 2007-2012
- Purchasing & Strategic Sourcing (Undergraduate SCM major core course) 2006-2007

## **PHD STUDENT ADVISED**

### **University of Houston**

- Yuan Ye (Committee chair), placement: California State University
- Chongyu Lu (Committee member), placement: Pace University
- Yuqiao Cheng (Committee chair), Placement: Dongbei University of Finance and Economics
- Lei (Raymond) Fang (Committee co-chair)
- Santiago Forero (Committee co-chair)
- Irene Nahm (Committee member)

### **Texas A&M University**

- Guanyi Lu (Committee member), placement, Oregon State University, now at Florida State University
- Anto Verghese (Committee member), placement, University of Wisconsin, Whitewater