**Claudia R. Rosales**

Eli Broad College of Business

Michigan State University

350 N Business Complex

East Lansing, MI, 48824

Office: 517-432-6327

Fax: 517-432-1112

Email: Rosales@broad.msu.edu

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* CURRENT STATUS

Assistant Professor, Supply Chain Management Department, Eli Broad College of Business, Michigan State University

* RESEARCH INTERESTS
* Health care operations
* Supply chain risk management
* Inventory models and transshipment
* Optimization and simulation modeling
* Logistics, cross-docking, retail operations
* PUBLICATIONS
* “*Procurement Decisions and Information Sharing under Multi-tier Disruption Risk in a Supply Chain*” Yoon, J., Talluri, S., and Rosales, C. *International Journal of Production Research,* forthcoming
* *“Dual sourcing and joint replenishment of hospital supplies”* Rosales, C., Magazine, M., and Rao, U. *IEEE Transactions on Engineering Management,* forthcoming*.*
* “*The impact of distribution channel decisions and repeated stockouts on manufacturer and retailer performance*” Rosales, C., Whipple, J., and Blackhurst, J. *IEEE Transactions on Engineering Management* 99(2018): 1-13*.*
* Rosales, Claudia, Judy Whipple, and Jennifer Blackhurst. “The Impact of Out Of Stocks and Supply Chain Design on Manufacturers: Insights from an Agent-Based Model” *Transportation Journal* 57, no. 2 (2018): 137-162. (***Received the Best Paper of the year Award in Transportation Journal, 2018***)
* Yoon, Jiho, Claudia Rosales, and Srinivas Talluri. "Inter-firm partnerships–strategic alliances in the pharmaceutical industry." *International Journal of Production Research* 56 no.1-2 (2018): 862-881.
* Rosales, Claudia R., Michael Magazine, and Uday Rao. "The 2Bin System for Controlling Medical Supplies at Point-of-Use." *European Journal of Operational Research* 243, no. 1 (2015): 271-280.
* Rosales, Claudia R., Michael Magazine, and Uday Rao. "Point‐of‐Use Hybrid Inventory Policy for Hospitals." *Decision Sciences* 45, no. 5 (2014): 913-937. (***Received the Best Paper of the year Award in Decision Sciences Journal, 2014***)
* Rosales, Claudia R., Uday S. Rao, and David F. Rogers. "Retailer Transshipment versus Central Depot Allocation for Supply Network Design." *Decision Sciences* 44, no. 2 (2013): 329-356.
* Rosales, Claudia R., Michael J. Fry, and Rajesh Radhakrishnan. "Transfreight reduces costs and balances workload at Georgetown crossdock." *Interfaces (as of 2019, the INFORMS Journal on Applied Analytics)”* 39, no. 4 (2009): 316-328.
* WORKING PAPERS
* “*In the Operating Room: Drivers of Waste and its Implication for Patient Outcomes and Perceived Disruption*” Dreyfus, D., Nair, A., Rosales, C.
* “*Complexity and financial performance: A detailed study in the context of the automotive component industry*” De Campos, H., Narayanan, S., Rosales, C.
* “*Managing Inventories of Physician Preferred and General Medical Supplies: A critical examination of in-stock versus consignment stock policies”.* Nair, A., Rosales, C.
* EDUCATION
* Ph.D., Operations Management, Spring 2011

College of Business, University of Cincinnati.

Thesis: *Technology Enabled Hybrid Inventory Control Policies in Hospitals*

Advisors: Dr. Michael Magazine and Dr. Uday Rao

* Master of Science in Quantitative Analysis, Fall 2007

Department of Quantitative Analysis and Operations Management,

College of Business, University of Cincinnati,

Master Thesis: *Optimal Inbound Trailer Allocation at a Crossdock – Optimizing*

*Operations and Balancing Workload*

* Bachelor of Science in Chemical and Industrial Engineering, Nov. 1999

Universidad Rafael Landivar, Guatemala City, Guatemala,

* TEACHING EXPERIENCE

**Michigan State University - Broad College of Business**

* SCM - 372 – *Manufacturing Planning and Control* –Fall 2018
* SCM - 372 – *Manufacturing Planning and Control* –Fall 2017
* SCM - 372 – *Manufacturing Planning and Control* –Fall 2016
* SCM - 372 – *Manufacturing Planning and Control* –Fall 2015
* SCM – 475 – *Decision Modeling in Supply Chain*  *-* Fall 2014
* SCM - 372 – *Manufacturing Planning and Control* –Spring 2014
* SCM - 475 – *Decision Modeling in Supply Chain* - Spring 2014
* SCM - 475 – *Decision Modeling in Supply Chain* - Fall 2013
* SCM - 475 – *Decision Modeling in Supply Chain* - Spring 2013
* SCM - 475 – *Decision Modeling in Supply Chain* - Fall 2012
* SCM - 475 – *Decision Modeling in Supply Chain* - Spring 2012
* SCM - 475 – *Decision Modeling in Supply Chain* - Fall 2011
* SCM - 475 – *Decision Modeling in Supply Chain* - Spring 2011
* SCM - 475 – *Decision Modeling in Supply Chain* - Fall 2010

**University of Cincinnati – Lindner College of Business**

* OM – 480 – *Project Management* – Winter 2009
* OM – 480 – *Project Management* – Spring 2009
* OM – 476 – *Operations Planning and Scheduling* – Fall 2007
* OM – 476 – *Operations Planning and Scheduling* – Summer 2007
* OM – 481 – *Supply Chain Management* – Fall 2006
* QA – 241 – *Business Statistics I* – Fall 2005
* QA – 241 – *Business Statistics I* – Summer 2005
* QA – 241 – *Business Statistics I* – Fall 2004
* QA – 241 – *Business Statistics I* – Summer 2004
* Teaching Assistant for QA – 375 – *Introduction to Quantitative Analysis* – Spring 2007, Winter 2007, Spring 2006, Winter 2006, Spring 2005, Winter 2005.
* PRESENTATIONS
* Sustainable Practices in Purchasing/Waste Reduction, Michigan Ambulatory Surgery Association (MASA) Quarterly Meeting, June 6, 2019, Kellogg Center, East Lansing
* Panel Moderator: Successful Approaches for Effective Supply Chain Management, Michigan Medical Device Summit, MSU Secchia Center, Grand Rapids, MI, May 22, 2019
* “Managing Medical Supplies – A Critical Examination of in-stock vs. Consignment Stock Policies” Production and Operations Management Society (POMS) annual meeting, Washington, D.C., May 5, 2019
* Managing Inventories of Physician Preferred and General Medical Supplies: An examination of in-stock vs. consignment stock policies –Michigan Association of Healthcare Resource and Materials Management (MAHRMM), Kellogg Center, East Lansing, September 27, 2018
* “Managing Physician Preferred vs. General Medical Supplies” - Invited Speaker at Michigan Ambulatory Surgery Association (MASA) Membership Meeting – Kellogg Center, East Lansing, December 15, 2017.
* “NPD in the Pharmaceutical Industry” Decision Sciences Annual meeting 2017, Washington, D.C., November 19, 2017. (invited session)
* “Managing Physician Preferred vs. General Medical Supplies” Decision Sciences Annual meeting 2017, Washington, D.C., November 19, 2017. (invited session)
* “Managing Physician Preferred vs. General Medical Supplies - The Use of Consignment Inventory”, 2017 INFORMS annual meeting, Houston, TX, October 23, 2017 (invited session)
* “Unplanned Costs: Physician preference cards” 2016 Decision Sciences Institute Annual Meeting, Nov. 20, 2016
* Optimal sourcing strategy and upstream information sharing under multi-tier disruption risk, Nov. 21, 2016

* “Hospital Inventory Management New Trends in Healthcare”, 2015 Decision Sciences Institute Annual Meeting, Nov. 22nd, 2015. Invited Session
* “An ethnographic study of operating room waste” ”, 2015 Decision Sciences Institute Annual Meeting, Nov. 22nd, 2015.
* Invited to present at the “Providing better healthcare through systems engineering: seminars and discussions” at the University of Michigan Center for Healthcare Engineering and Patient Safety. October 5, 2015.
* “Managing Physicians Preferred vs. General Medical Supplies: Reduce Costs and Improve Quality of Care”. INFORMS Healthcare Conference, July 29, 2015. Invited Session on Hospital Operations
* “Optimal Sourcing Decisions and Information Sharing under Multi-tier Disruption Risk”, 2015 Production and Operations Management Annual Conference, May 10, 2015.
* “Hospital Inventory Management”, 2015 Production and Operations Management Annual Conference, May 8, 2015. Invited Session

* “Waste within the operating room”, 2014 Decision Sciences Institute’s Annual Meeting, Nov 22 2014, Tampa. FL, with Dr. Anand Nair and David Dreyfus.
* “Optimal sourcing decisions and upstream information sharing under multi-tier disruption risk in a supply chain”, 2014 Decision Sciences Institute’s Annual Meeting, Nov 22 2014, Tampa. FL, with Dr. Sri Talluri and Jiho Yoon.
* “The Impact of Demand Variability in a Centralized Healthcare Supply Chain”, INFORMS annual meeting, Minneapolis, MN, Oct 7, 2013
* “Real-Time Inventory Visibility – Is it Essential to Reduce Hospital Supply Chain Costs?”, POMS annual conference, Denver, CO, May 5th, 2013 with Dr. Michael Magazine and Dr. Uday Rao
* *“Retailer Transshipment versus Central Depot Allocation for Supply Network Design”,* INFORMS annual conference, Phoenix, AZ, October 17, 2012 with Dr. Uday Rao and Dr. David Rogers
* “*Storing and Dispensing Medical Supplies – Taking Advantage of Technology*”, Sponsored Session: Improving Efficiency in Healthcare Operations, INFORMS Annual Conference, Charlotte, NC, November 16, 2011 with Dr. Michael Magazine and Dr. Uday Rao.
* “*Dispensing and Controlling Medical Supplies at the Point-of-Use*”, Invited Session: Optimizing Resources in Healthcare Delivery Systems, INFORMS Midwest Conference, Columbus, OH, August 1, 2011 with Dr. Michael Magazine and Dr. Uday Rao.
* “*Storing and Dispensing Hospital Supplies to Nursing Wards*”, Supply Chain Research Symposium, Association for Healthcare Resource and Materials Management (AHRMM), Boston, MA, August 10, 2011 with Dr. Michael Magazine and Dr. Uday Rao.
* “*Storing and Dispensing Hospital Supplies to Nursing Wards – The RFID- enabled Two-Bin System*”, Markov Decision Processes Session, INFORMS Healthcare Conference, Montreal, Canada, June 22, 2011, with Dr. Michael Magazine and Dr. Uday Rao.
* “*Joint Inventory Replenishment Policies in Health Care: Taking Advantage of Technology*”, Healthcare Operations Management Session, Production and Operation Management Society-POMS- Annual Meeting, Vancouver, Canada, May 7-10, 2010, with Dr. Michael Magazine and Dr. Uday Rao.
* “*New inventory policies in health care: Taking advantage of technology*”,  Manufacturing and Service Operations Management Session, INFORMS Annual Meeting, San Diego, CA, October 11-14, 2009, with Dr. Michael Magazine and Dr. Uday Rao.
* *“Technology enabled hybrid inventory control policies in hospitals”*, Sponsored Session on Optimization of Inventory in Supply Chains, INFORMS Annual Meeting, Washington D.C., October 12-15, 2008, with Dr. Michael Magazine and Dr. Uday Rao.
* “*Transfreight reduces costs and balances workload at Georgetown crossdock*”, Graduate Poster Forum, University of Cincinnati, March 7, 2008.
* “*Optimal Inbound Trailer Allocation at a Crossdock – Optimizing Operations and Balancing Workload*”, Sponsored Session on Crossdocks and Warehouses, INFORMS Annual Meeting, Seattle, WA, November 4-7, 2007, with Dr. Michael Fry and Rajesh Radhakrishnan.
* “*Demand Variability Impact in an Inventory System with Transshipments*”, presented at INFORMS Annual Meeting, San Francisco, CA, November 13-16 2005, with Dr. Uday Rao and Dr. David Rogers.
* PROFESSIONAL SERVICE
  + - Michigan Association for Healthcare Resource and Materials Management (MAHRMM), Education Committee, 2019
    - “Prize for the Teaching of the OR/MS Practice committee, INFORMS 2019
    - Editorial Review Board member of IEEE Transactions on Engineering Management September 1, 2017 – September 1, 2020
    - Judging Panel for the Production and Operations Management Society (POMS) Emerging Economies Doctoral Student Award, 2018.
    - Judging Panel for the Production and Operations Management Society (POMS) Best Student Paper Competition, 2018.
    - “Prize for the Teaching of the OR/MS Practice committee, INFORMS 2018
    - Excellence in Teaching Citations Selection Committee, Fall 2017
    - Session chair for DSI Annual meeting, Washington, D.C., 2017.
    - Session chair for INFORMS Annual meeting, Houston, TX 2017.
    - Review Board Member for the Best Student Paper Competition – POMS Annual Conference Spring 2017
    - Track Co-Chair for the Decision Models in Sourcing and Logistics Track - Decision Sciences Annual Conference, 2016.
    - Review Board Member for the Best Student Paper Competition – POMS Annual Conference Spring 2016
    - Invited session chair for Decision Sciences Annual Meeting 2015.
    - Reviewer for Best Student Paper Competition – POMS Conference Spring 2015.
    - Editorial Review Board for JOM especial issue on service triads – Summer 2013
    - Reviewer for Best Student Paper Competition – POMS Conference 2013.
    - POMS Annual Conference 2013 Session Chair for Invited Session on Healthcare Operations Management – Models in Healthcare. May 5th. 2013.
* STUDENT ADVISING
  + - SCM – undergraduate students honors options (Jodie Kozler, Madison Walker), Fall 2017
    - SCM – undergraduate students honors options (Jillian Bickley, Mackenzie Desautel), Fall 2015
    - Jiho Yoon – Ph.D. Graduate – Department of Supply Chain Management
    - David Dreyfus – Ph.D. Graduate – Department of Supply Chain Management
    - SROP (Summer Research Opportunity Program) Mentor – Summer 2013 (Archie Brown) & Summer 2014 (Raul Jimenez)
* GRANTS AND FELLOWSHIPS
  + - College of Business summer research grant (Summer 2015) - $20,000 – for summer research support.
    - Oakwood Health System (April 2014) (with Anand Nair, Department of Supply Chain Management, Michigan State University) - $4,000 - For supporting a doctoral student for collecting data regarding waste in the operating room. (with Anand Nair)
    - College of Business summer research grant (Summer 2014) - $9,800 – For summer research support.
* AWARDS / SCHOLARSHIPS
* Transportation Journal Best Paper of the Year Award, 2018.
* Decision Sciences Journal Best Paper of the Year Award, 2014.
* General Electric Fellowship (2003-2007) University of Cincinnati
* CORPORATE EXPERIENCE

* Summer Internship, Transfreight LLC, U.S.A. July – September 2006 - Developed a mixed integer linear program that provides the optimal allocation of trailers to docks for Transfreight’s crossdocking operations in Georgetown, KY. The optimization model was implementation in both Excel-Visual Basic and AMPL/CPLEX environments for small and large scale optimization problems.
  + - Several positions held such as Quality Assurance, Productivity Engineer, Process Engineer, and Packaging Engineer, Colgate Palmolive C.A., January 1999 – July 2003
* AFFILIATIONS
* INFORMS – The Institute for Operations Research and the Management Sciences
* DSI - Decision Sciences Institute
* POMS - Production and Operation Management Society
* Omega Rho International Honor Society
* AHRMM – Association of Healthcare Resource and Materials Management
* MAHRMM – Michigan Association of Healthcare Resource and Materials Management
* OTHER
* English (Fluent) / Spanish (Fluent)
* Computer Languages: C++, AMPL, CPLEX, Visual Basic, SAS,
* Simulation Software: ARENA, SIGMA, NetLogo