

## Aman Gupta

Assistant Professor/ Program Chair  
Logistics and Supply Chain Management  
College of Business

Embry-Riddle Aeronautical University – Worldwide, Daytona Beach, FL 32114

Phone: 502-475-4426

Email: [aman.gupta@erau.edu](mailto:aman.gupta@erau.edu)

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### EDUCATION

- PhD, Industrial Engineering (Operations Research), University of Louisville, Louisville, KY, **2007**.
- MS, Industrial Engineering (Production Systems), State University of New York, Buffalo, NY, **2003**.
- BE, Mechanical Engineering, Thapar Institute of Engineering and Technology, India, **2000**.

### RESEARCH INTERESTS

- Supply Chain Management
- Warehousing and Distribution
- Healthcare Operations Management
- Reverse Logistics
- Service Quality Management
- Queuing Networks

### PEER-REVIEWED PUBLICATIONS

1. S. S. Heragu and **A. Gupta**, (2013). CONWIP: Closed or Semi-Open Queuing Network?, accepted by *International Journal of Operational Research*.
2. M. Arif, **A. Gupta**, and A. Williams, (2013). Customer Service in Aviation Industry – An Exploratory Analysis of UAE Airports, *Journal of Air Transport Management*, 32, 1-7.
3. **A. Gupta**, G. W. Evans and S. S. Heragu, (2013). Simulation and Optimization Modeling for Drive-Through Mass Vaccination – A Generalized Approach, *Simulation Modelling Practice and Theory*, 37, 99-106.
4. **A. Gupta**, M. Arif, and A. Williams, (2013). Measuring Customer Service – a case study of Dubai International Airport, *Journal of Airport Management*, 7(4), 355-367.
5. **A. Gupta**, R. Mau and T. Richardson (2013). Assessment of an Online Management Science Class, under review with *Journal of Further and Higher Education*.
6. M. Arif and **A. Gupta** (2013). Assessing the Usability for Arabic Language Websites, under review with *International Journal of Technology and Human Interaction*.

7. M. Arif and **A. Gupta** (2013). Understanding Knowledge Sharing in Jordanian Construction Industry, under review with *The Learning Organization*.
8. **A. Gupta**, M. Arif, and A. Williams (2013). Assessing Customer Service in Airports – Cases from the UAE, under review with *Journal of Destination Marketing & Management*.
9. **A. Gupta** and G. W. Evans, (2009). A Goal Programming Model for the Operation of Closed-Loop Supply Chains, *Engineering Optimization*, 41(8), 713-735.

#### **WORKING PAPERS**

1. **A. Gupta** and M. Arif. Technology Transfer between India and UK in Construction Sector – An Exploratory Study. Target Journal: *The Journal of Technology Transfer*
2. **A. Gupta** and M. Arif. Assessing Knowledge Sharing in Jordanian Construction Industry. Target Journal: *Construction Innovation: Information, Process, Management*
3. **A. Gupta** and M. Arif. Knowledge Sharing in Construction: A Case from Jordanian Construction Industry. Target Journal: *International Journal of Knowledge Management*
4. M. Arif and **A. Gupta**. Knowledge Sharing in Construction: Cases from Jordanian Construction Industry. Target Journal: *The Electronic Journal of Knowledge Management*

#### **CONFERENCE PROCEEDINGS AND PRESENTATIONS**

1. R. Mau and **A. Gupta**, Supply Chain Risk Management Associated with Financial Flow. Presented at 2013 EURO-INFORMS Joint International Meeting.
2. **A. Gupta** and S. S. Heragu, Extension and Application of a Mathematical Model for Product Allocation and Warehouse Design” Proceedings of 2013 Industrial and Systems Engineering Research Conference.
3. R. Mau and **A. Gupta**, Supply Chain Risk Management Associated with Financial Flow. Presented at 2013 Industrial and Systems Engineering Research Conference.
4. **A. Gupta** and S. S. Heragu, Mathematical modeling approach for product allocation and warehouse design, Presented at INFORMS Annual Conference, 2012.
5. R. Kelley, **A. Gupta**, A. Kumar, and S. S. Heragu, Using UICDS to Share Data in the Real-time Decision Support System for Pandemic Response, HealthCare Systems Engineering Workshop, CyberC-2011, Beijing, China.

6. **A. Gupta** and G. W. Evans, Simulation Modeling and Analysis for Drive-Through Mass Vaccination- A Generalized Approach, Invited talk by Society of Health Systems at 4th Annual Mayo Clinic Conference on Systems Engineering and Operations Research in Health Care.
7. **A. Gupta** and S. S. Heragu, Semi-Open Queuing Network Approach to Model CONWIP Systems, INFORMS 2011 Midwest Regional Conference.
8. G. W. Evans, **A. Gupta**, S. S. Heragu, J. Wiggers, and T. v. d. Kracht, Simulation Modeling Approach for Drive-Through Mass Vaccination Clinic, INFORMS 2011 Midwest Regional Conference.
9. **A. Gupta** and S. S. Heragu, Real-Time Decision Support System for Healthcare, Proceedings of 2011 Industrial Engineering Research Conference.
10. J. Wiggers, T. v. d. Kracht, **A. Gupta**, and S. S. Heragu, Design and Analysis of a Simulation Model for Drive-Through Mass Vaccination, Proceedings of 2011 Industrial Engineering Research Conference.
11. T. Rao, S. S. Heragu, G. W. Evans and **A. Gupta**, Realtime Inventory Management in Healthcare – A Survey, Presented at 2011 Industrial Engineering Research Conference.
12. **A. Gupta** and S. S. Heragu, CONWIP: Closed or Semi-Open Queuing Network, Proceedings of 2011 Industrial Engineering Research Conference.
13. **A. Gupta**, R. Kelley, S. S. Heragu, A. Kumar, G. W. Evans, Y. Sun, and M. Johnson , Facility location model for medical supplies distribution from Receive, Stage, Storage (RSS) site(s) to Points of Dispense (POD) sites, Poster presentation at 2011 Public Health Preparedness Summit.
14. **A. Gupta**, S. S. Heragu, and T. Rao, Real-Time Decision Support System for Healthcare and Public Health Sectors Protection – Gaps Identified in HPH and ESS Sectors and the Proposed Research Work, Poster presentation at 2011 Health and Humanitarian Logistics conference organized by GATech.
15. Y. Sun, G. W. Evans, S. S. Heragu, L. Bai and **A. Gupta**, and Michael Johnson: The Kentucky SNS Logistics Network Design: Location and Assignment, Presented at 2010 Modeling for Public Health Action conference organized by CDC.
16. **A. Gupta**, (2009), Presented a study titled “Warehouse Slotting – A Survey” at International Conference on Value Chain Sustainability (ICOVACS) held at University of Louisville, 2009.
17. G. W. Evans, G. W. DePuy, and **A. Gupta**, Simulation and Optimization Methodologies to Determine Distribution System Inventory Policies, Proceedings of 2007 Industrial Engineering Research Conference.

18. **A. Gupta** and G. W. Evans, Presented a poster on the effects of increasing E-waste and the significance of Closed-Loop Supply Chains on Engineers Day at Speed School, University of Louisville 2006.
19. **A. Gupta** and G. W. Evans, Optimization Modeling for the Design and Operation of Closed-Loop Supply Chains, Proceedings of 2006 Industrial Engineering Research Conference.
20. **A. Gupta**, G. W. Evans, and S. M. Alexander, Optimization Modeling for the Design and Operation of Closed-Loop Supply Chains, Presented at INFORMS Annual Conference, 2005.
21. **A. Gupta** and B. Ram, Integrating Human Performance into Discrete-Event Simulation Models for Manufacturing: A Survey, Proceedings of 14<sup>th</sup> International Conference on Flexible Automation and Intelligent Manufacturing, # FAIM04-109, 2004.
22. F. Shin, B. Ram, **A. Gupta**, X. Yu, and R. Menassa, A decision tool for assembly line breakdown action, Proceedings of 36<sup>th</sup> Conference on Winter Simulation, 2004.

#### **NON REFEREED CONTRIBUTIONS**

1. Contributed an article titled "Risk in Aerospace Supply Chains" to Aerospace Industry Report 2012, an annual publication by Center for Aviation and Aerospace Leadership (CAAL), Embry Riddle Aeronautical University.
2. Completed the report titled "Comparison of logistics infrastructure provided by the Louisville Metropolitan Statistical Area (MSA) with those of ten MSAs considered being potential "competitors" to Louisville in attracting companies to the area" to Greater Louisville Inc. in June 2012.
3. Contributed a chapter on benefits of simulation modelling for planning a mass vaccination clinic in a manual developed by the School of Public Health and Information Sciences to assist local health departments.
4. Contributed an article on simulation modelling for drive-through mass vaccination clinics in the April 2011 bulletin of Canadian Operational Research Society.

#### **GRANT APPLICATIONS**

1. Faculty Research Development Fund FY14: [Approved in Sep 2013, \$2100]
2. ERAU Faculty Internal Research Grants 2013-2014: [PI, Approved in April 2013, \$11,940]  
Title: Green Supply Chain Assessment Model for Aviation and Aerospace Manufacturing Industry
3. 2013 Embry Riddle Worldwide Research Award: [Co-PI, Not Approved]  
Title: Developing a Customer Oriented Course Delivery Model

4. Faculty Development Funding from Embry-Riddle Aeronautical University, [Approved in Nov 2012, \$7500]
5. National Cooperative Highway Research Program, Transportation Research Board [PI, Not approved]  
Title: Guidebook for Selecting and Implementing Sustainable Highway Construction Practices
6. 2012 Embry Riddle Worldwide Research Award: [PI, Approved in June 2012, Amount: \$5895]  
Title: Supply Chain Risk Management associated with financial flow in Aviation and Aerospace Industry
7. Greater Louisville Inc., The Metro Chamber of Commerce: [PI, Approved in October 2011, Amount: \$12000]  
Title: Comparison of logistics infrastructure provided by the Louisville Metropolitan Statistical Area (MSA) with those of ten MSAs considered being potential "competitors" to Louisville in attracting companies to the area.
8. Transportation Research Board [PI, Not approved]  
Title: A Guide for Public Transportation Pandemic Planning and Response.

### **SCHOLARLY ACTIVITIES**

- Session chair for the sessions titled "Warehousing and Distribution" and "Supply Chain Risk Management" under the Supply Chain and Logistics track at the *2013 Industrial and Systems Engineering Research Conference*.
- Session chair for the sessions titled "Real Time Decision Support System for Health Care" and "Performance Measurement in HealthCare Systems" under the Health Care Systems Engineering Track at the *2011 Industrial Engineering Research Conference*.
- Organized the International Workshop on Healthcare Systems Engineering in conjunction with *CyberC 2011* as a program co-chair to be held in Beijing, China in October, 2011.
- Referee for *Applied Mathematical Modelling, European Journal of Operational Research, Information Sciences, Journal of Robotics and Computer Integrated Manufacturing, Computers & Operations Research, Computers & Industrial Engineering, Transportation Research Part E, European Journal of Industrial Engineering, Asia-Pacific Journal of Operational Research, Applied Soft Computing, Proceedings of IERC, and Proceedings of Winter Simulation Conference*.

- Assessor for the *General Education Assessment Project* at the University of Louisville. The project evaluates the effectiveness of the general education curriculum and recommends changes for its improvement, as required by SACS accreditation principles (2005, 2006, and 2010).

## **AWARDS & HONORS**

- Awarded the “Outstanding Accomplishments in Research” award by Embry-Riddle Aeronautical University – Worldwide at the Worldwide Conference held on Aug 26-29, 2013.
- ISERC 2013 New Faculty Colloquium Participant, San Juan, Puerto Rico, 2013.
- Awarded the postdoctoral research award by Logistics and Distribution Institute at the University of Louisville, Nov 2012.
- Awarded “Best Dissertation of the Year 2007” by the Department of Industrial Engineering at University of Louisville.
- Awarded 2<sup>nd</sup> prize for the poster presented on the effects of increasing E-waste and significance of closed-loop supply chains on Engineers Day at Speed School, University of Louisville, 2006.
- Awarded the Research Fellowship for Doctoral Research by the Logistics and Distribution Institute (LODI) at University of Louisville, 2005-2006.

## **PROFESSIONAL EXPERIENCE**

- Assistant Professor/Program Chair - Logistics and Supply Chain Management, College of Business, Embry-Riddle Aeronautical University – Worldwide, Dec 2011 – Present.  
Courses: Purchasing for Logistics and Supply Chain Managers, Transportation Management, Integrated Logistics Management, Supply Chain Management, Global Logistics and Supply Chain Management, Operations Management, Project Management, Logistics and Supply Chain Management Capstone, Management Science, Probability and Statistics, Discrete Optimization, Analysis of Decision Making, and Business Research Methods.
- Postdoctoral Associate, Department of Industrial Engineering at University of Louisville, Louisville, KY, May 2010 – Nov 2011.  
Project: Real-Time Decision Support System for HealthCare and Public Health and Emergency Services Sectors Protection. PI- Dr. Sunderesh S. Heragu.
- Adjunct Professor, College of Business, University of Louisville, Louisville, KY.  
Course: Operations Management (MGMT 401) - Fall 2011.

- Research Assistant, Logistics and Distribution Institute (LODI) at University of Louisville, Louisville, KY, August 2005 – June 2006.  
Teaching and Research Assistant, Department of Industrial Engineering at University of Louisville, Louisville, KY, August 2004 – July 2005.  
Teaching and Research Assistant, Department of Industrial Engineering at North Carolina A&T State University, Greensboro, NC, August 2003 – July 2004.
- Industrial Engineer, IDS Engineering Inc., Louisville KY Sep 2007-May 2010
- Inventory Quality Project Manager, TMSi Logistics, Jeffersonville IN Jul 2006-Aug 2007
- Industrial Engineer, Swaraj Tractors, India Jul 2000-Jun 2001
- Industrial Engineering Intern, Swaraj Combine Division, India Jan 1999-Jun 1999

### **TEACHING EXPERIENCE**

<b>Summary of Course Evaluations at the College of Business at Embry-Riddle Aeronautical University - Worldwide</b>			
<b>Course Name</b>	<b>Term</b>	<b>Student Count</b>	<b>Evaluation (Out of 5)</b>
LGMT 536: Purchasing for Logistics & SCM	Jan 2012	10	4.20
LGMT 634: Analysis of Decision Making for Logistics & SCM	Mar 2012	9	4.96
LGMT 634: Analysis of Decision Making for Logistics & SCM	May 2012	17	4.69
LGMT 636: Transportation Management	May 2012	22	4.57
LGMT 682: Integrated Logistics Management	Aug 2012	20	4.91
LGMT 691: Logistics & SCM Capstone	Aug 2012	5	4.80
LGMT 683: Supply Chain Management	Oct 2012	19	4.87
LGMT 691: Logistics & SCM Capstone	Jan 2013	12	4.52
LGMT 685: Global Logistics & SCM	Mar 2013	19	4.88
MBAA 522: Business Research Methods	Mar 2013	17	4.51
LGMT 691: Logistics & SCM Capstone	May 2013	13	4.87
LGMT 691: Logistics & SCM Capstone	Aug 2013	10	4.9
LGMT 682: Integrated Logistics Management	Oct 2013	4	
LGMT 683: Supply Chain Management	Jan 2014		

## **Course Evaluations at the College of Business at University of Louisville**

MGMT 401: Operations Management, Fall 2011, Number of Students: 51, Evaluation: 3.92/5

### **PROFESSIONAL AFFILIATIONS**

- American Society of Transportation and Logistics (AST&L)
- Institute for Supply Management (ISM)
- Institute of Industrial Engineers (IIE)
- Institute of Operations Research and the Management Sciences (INFORMS)

### **SERVICE RESPONSIBILITIES**

- Senator, Worldwide Faculty Senate, Feb 2013 – Present
- Member, Curriculum Management Application project, Mar 2013 - Present
- Member, UG Curriculum Committee, July 2013 – Present
- Scholarly Commons Ad Hoc Faculty Advisory Committee, Jan 2013 - Present
- Member, Senate technology committee, Nov 2012 – Present
- Member, Center for Aviation and Aerospace Leadership, Jan 2012 - Present