

AYUSH GUPTA

ayushg@iimidr.ac.in

RESEARCH INTERESTS

Dual-channel supply chain, Strategic inventory, Forward contract, Digitization of operations, Sustainable operations, Technology adoption, Maintenance management, Humanitarian logistics, Game theory.

TEACHING INTERESTS

Operations Research, Operations and Supply Chain Management, Operations Strategy, Game Theory

PROFESSIONAL EXPERIENCE

- | | |
|---|---------------------------|
| • Indian Institute of Management Indore,
Assistant Professor, Operations Management and Quantitative Techniques | Mar 2025-Current |
| • Indian Institute of Management Calcutta,
Assistant Professor, Operations Management Group | Dec 2024-Mar 2025 |
| • PriceWaterhouseCoopers (PwC India)
Consultant, Supply Chain Management | July 2023-Dec 2024 |

EDUCATION

- | | |
|---|------------------|
| • Indian Institute of Management Ahmedabad,
Ph.D., Operations and Decision Sciences
Title: Strategic Interactions in Vertical Supply Chains: on the Role of Encroachment and Advance Purchasing
Committee: Sachin Jayaswal (chair), Benny Martin, Ankur Sinha
– CGPA: 3.48/4.33 | 2018-2023 |
| • Delhi Technological University, India
B.Tech, Production and Industrial Engineering
– Gold medalist
– GPA: 80.48% | 2013-2017 |

HONORS AND AWARDS

- | | |
|---|-------------------|
| • Nagesh Murthy-POMS Emerging Economies Doctoral Student Award,
Production and Operations Management Society, USA | 2022 |
| • Industrial Finance Corporation of India (IFCI) Award for Best Thesis Proposal,
IIM Ahmedabad | 2022 |
| • Best Paper Award at XXV annual international conference of Society of Operations Management,
IIM Indore | 2022 |
| • Vice chancellor's Gold Medal for securing the First position in B.Tech,
Delhi Technological University | 2017 |
| • Multiple University-Merit Scholarships during under-graduation,
Delhi Technological University | 2015, 2016 |

Journal Publications

- Gupta, A., Jayaswal, S., Mantin, B. (2024) "Who Benefits from Supplier Encroachment in the Presence of Manufacturing Cost Learning?" *Production and Operations Management*, **33(8)**, 1700-1718
- Singh, R. K., & Gupta, A. (2020). Framework for sustainable maintenance system: ISM–fuzzy MICMAC and TOPSIS approach. *Annals of Operations Research*, 290(1), 643-676.
- Singh, R. K., Gupta, A., & Gunasekaran, A. (2018). Analysing the interaction of factors for resilient humanitarian supply chain. *International Journal of Production Research*, 56(21), 6809-6827.
- Gupta, A., Singh, R.K., Kamble, S., Mishra, R. (2022). Knowledge management in industry 4.0 Environment for sustainable competitive advantage: a strategic framework. *Knowledge Management Research & Practice*, 20(6), 878-892.
- Singh, R.K., Gupta, A., Kumar, A. and Khan, T.A. (2016). Ranking of barriers for effective maintenance by using TOPSIS approach. *Journal of Quality in Maintenance Engineering*, 22 (1), 18-34.

Research in Progress

- Gupta, A., Mantin, B., Jayaswal, S. "Strategic Inventory and Forward Contracts in Vertical Supply Chain" (Manuscript under Preperation for submission to **Manufacturing and Service Operations Management**)
- Gupta, N., Gupta A., Jayaswal, S., Ghosh, R., "The Rise of Digital Platforms and the Impact of Direct Procurement on Farmer Welfare" (Manuscript under Preparation for submission to **Production and Operations Management**)
- Gupta, A., Jayaswal, S., Mantin, B. "Advance Purchasing in Presence of P2P Platform" (Manuscript under Preparation for submission to to **Production and Operations Management**)
- Gupta, A., Mantin, B., Jayaswal, S. "Supplier Encroachment: Decentralization vs. Centralization" (**Work-in-Progress**)

Conference Presentations

- **Supplier Encroachment: The Impact of Cost Learning**
 - POMS India International Conference, Mumbai, 2021
 - Annual POMS Conference, Online, 2022
 - IIM Lucknow Annual International Research Conference and Doctoral Workshop, Noida, 2022
 - Annual International Conference of the Society of Operations Management (SOM), IIM Indore, 2022
- **Forward Contracts, Inventory, and Supply Chain Efficiency**
 - POMS India International Conference, Kozhikode, 2022
 - Annual POMS Conference, Orlando, USA, 2023

TEACHING AND RESEARCH EXPERIENCE

Visiting Research Scholar

- **Luxembourg Center for Logistics and Supply Chain Management** **Dec 2021-Feb 2022**
(LCL-- MIT SCALE Network), University of Luxembourg
 - Visiting Ph.D. student

Teaching

- **Teaching Assistant, IIM Ahmedabad** **Jun 2022-Aug 2022**
 - Course: **Supply Chain Thinking: Value Creation and Adaptation**,
 - Instructor: **Prof. Shardul Phadnis**,
 - Programme: Post Graduate Programme in Management (MBA)
- **Teaching Assistant, IIM Ahmedabad** **Nov 2021-Dec 2021**
 - Course: **Operations Management-II**,
 - Instructor: **Prof. Sachin Jayaswal**,
 - Programme: Post Graduate Programme in Management (MBA)

TRAININGS AND INTERNSHIPS

- **Atos, Bezons, Île-de-France, France** **Mar 2019-May 2019**
Corporate Strategy Intern
 - Executed summer internship on evaluating the opportunity of building a critical industry/business knowledge base between France and India in digital practice.
 - Submitted final consulting report to Global Head Atos IoT Solutions.
 - Recommendations of the report were accepted and highly appreciated.
- **National Thermal Power Corporation, Badarpur, India** **Jun 2015-Jul 2015**
Summer Intern
 - Analyzed the working of the thermal power plant
 - Submitted final report on adopting sustainable practices in the thermal power plant.

SELECTED DOCTORAL LEVEL COURSEWORK

- | | |
|--|---|
| • Operations Research | • Queuing Model |
| • Game Theory in Operations Management | • Non-Linear Optimization |
| • Strategy and Innovation | • Game Theory in Supply Chains (University of Luxembourg) |
| • Structural Equation Modelling | • Real Analysis |

PROFESSIONAL AFFILIATIONS AND SERVICES

- **Member:** Production and Operations Management Society
- **Reviewer:** Benchmarking: An International Journal, Vikalpa: The Journal for Decision Makers
- **Session Chair:** Annual convention of ORSI and International conference, IIM Ahmedabad, 2019
 - Track: Health Care Management/ Service Sector

OTHER ACTIVITIES

- **Volunteer at Art of Living Foundation**
 - The Art of Living Foundation is a volunteer-based, humanitarian, and educational non-governmental organization. It offers stress-elimination tools like the Sudarshan Kriya, yoga, meditation.
- **Member of Organizing Committee "Udyog'15"** held at Delhi Technological University

SOFTWARE SKILLS

R, Mathematica, Python, LaTeX, C++

REFERENCES

Professor Sachin Jayaswal

Professor
Operations and Decision Sciences,
Indian Institute of Management Ahmedabad, India
sachin@iima.ac.in
Ph.: +91-9725107356

Professor Ankur Sinha

Associate Professor
Operations and Decision Sciences,
Indian Institute of Management Ahmedabad, India
asinha@iima.ac.in
Ph.:+91-8980040112

Professor Benny Mantin

MIT-Research Affiliate
Professor and Director
Luxemburg Center for Logistics and Supply
Chain Management-MIT SCALE network,
University of Luxembourg, Luxembourg
benny.mantin@uni.lu
Ph.:+352-661750034