

Shivam Gupta

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EDUCATION

- 2016 Ph.D. in Management Science
University of Texas at Dallas, USA
- 2011 Master of Technology in Civil Engineering
Indian Institute of Technology Kanpur, India
- 2007 Bachelor of Technology in Civil Engineering
Indian Institute of Technology Kanpur, India

EXPERIENCE

Academic Experience

- 2018–current: Assistant Professor, College of Business, University of Nebraska-Lincoln, USA.
- 2016–2018: Assistant Professor, McCoy College of Business, Texas State University, USA.

Professional Experience

- 2007–2008: Assistant Project Manager, Jones Lang LaSalle Meghraj Consultants, India.

RESEARCH

Articles in Refereed Journals

- [J1] **2023**. Shivam Gupta, Saurabh Bansal, Milind Dawande, Ganesh Janakiraman. [Trust-and-Evaluate: A Dynamic Non-Monetary Mechanism for Internal Capital Allocation](#). To appear in **Management Science**.
- [J2] **2023**. Shivam Gupta, Anupam Agrawal, Jennifer K. Ryan. [Agile Contracting: Managing Incentives under Uncertain Needs](#). **Production and Operations Management** 32(3) 972–988. <http://doi.org/10.1111/poms.13909>
- [J3] **2023**. Shivam Gupta, Wei Chen, Milind Dawande, Ganesh Janakiraman. [Three Years, Two Papers, One Course-Off: Optimal Non-Monetary Reward Policies](#). **Management Science** 69(5) 2852–2869. <https://doi.org/10.1287/mnsc.2022.4482>
- [J4] **2022**. Shivam Gupta, Saurabh Bansal. [Optimal Market Integration Decisions by Policy Makers: Modeling and Analysis of Agriculture Market Data](#). **Operations Research** 70(1) 352-362. <https://doi.org/10.1287/opre.2021.2191>

- [J5] **2021**. Shivam Gupta, Shouqiang Wang, Milind Dawande, Ganesh Janakiraman. [Procurement with Cost and Non-Cost Attributes: Cost-Sharing Mechanisms](#). **Operations Research** 69(5) 1349–1367. <https://doi.org/10.1287/opre.2020.2060>
- [J6] **2017**. Shivam Gupta, Milind Dawande, Ganesh Janakiraman, Ashutosh Sarkar. [Distressed Selling by Farmers: Model, Analysis, and Use in Policy-Making](#). **Production and Operations Management** 26(10) 1803–1818. <https://doi.org/10.1111/poms.12726>
- First Place in the INFORMS Public Sector OR Best Paper Competition 2015.
 - Finalist in the POMS SCM Student Paper Competition 2016.
- [J7] **2016**. Shivam Gupta. [On a Modification of the VCG Mechanism and Its Optimality](#). **Operations Research Letters**¹ 44(3) 415–418. <https://doi.org/10.1016/j.orl.2016.04.003>
- [J8] **2015**. Shivam Gupta, Wei Chen, Milind Dawande, Ganesh Janakiraman. [Optimal Descending Mechanisms for Constrained Procurement](#). **Production and Operations Management** 24(12) 1955–1965. <https://doi.org/10.1111/poms.12385>
- [J9] **2013**. Kalyanmoy Deb, Shivam Gupta, Joydeep Dutta, Bhoomija Ranjan. [Solving Dual Problems Using a Coevolutionary Optimization Algorithm](#). **Journal of Global Optimization** 57(3) 891–933. <https://doi.org/10.1007/s10898-012-9981-5>
- [J10] **2011**. Kalyanmoy Deb, Shivam Gupta. [Understanding Knee-points in Bi-criteria Problems and Their Implications as Preferred Solution Principles](#). **Engineering Optimization** 43(11) 1175–1204. <https://doi.org/10.1080/0305215X.2010.548863>

Under Review/Revision

- [W1] Like Bu, Shivam Gupta, Milind Dawande, Ganesh Janakiraman. [Combating Overbilling in Outsourced Projects: A Dynamic Auditing Mechanism](#). Under review in **Management Science**.

¹The journal *Operations Research Letters* is rated as “A” journal (the second-highest category) in the Australian Business Deans Council (ABDC) list (see <https://abdc.edu.au/abdc-journal-quality-list>). Further, *Journal of Global Optimization* and *Engineering Optimization* are rated as “A” journal (the second-highest category) and “B” journal, respectively, in the Australian Mathematical Society’s list of Applied Maths journals (see https://austms.org.au/Rankings/0103_AustMS_final_ranked.html).

Invited Research Seminars at Universities

Three Years, Two Papers, One Course-Off: Optimal Non-Monetary Reward Policies

- School of Business, University of Kansas (2022)

Procurement with Cost and Non-Cost Attributes: Cost-Sharing Mechanisms

- College of Business, University of Nebraska Lincoln (2017)
- Fox School of Business, Temple University (2017)

Distressed Selling by Farmers: Model, Analysis and Use in Policy-Making

- School of Business, University of Pittsburgh (2016)
- McCoy College of Business, Texas State University (2016)
- Coles College of Business, Kennesaw State University (2016)
- Black School of Business, Penn State Behrend (2016)
- Gies College of Business, University of Illinois at Urbana-Champaign (2015)
- Indian School of Business (2015)

Peer-Reviewed or Invited Conference Presentations

Trust-and-Evaluate: A Dynamic Non-Monetary Mechanism for Internal Capital Allocation

- 2023 INFORMS Annual Meeting
- 2023 POMS Annual Meeting
- 2022 INFORMS Annual Meeting

Three Years, Two Papers, One Course-Off: Optimal Non-Monetary Reward Policies

- 2021 INFORMS Annual Meeting
- 2021 MSOM Annual Meeting

Agile Contracting: Managing Incentives under Uncertain Needs

- 2023 POMS Annual Meeting
- 2022 POMS Annual Meeting
- 2021 POMS Annual Meeting

Optimal Market Integration Decisions by Policy Makers: Modeling and Analysis of Agriculture Market Data

- 2023 POMS Annual Meeting
- 2022 POMS Annual Meeting
- 2019 INFORMS Annual Meeting

Procurement with Cost and Non-Cost Attributes: Cost-Sharing Mechanisms

- 2021 POMS Annual Meeting
- 2019 POMS Annual Meeting
- 2018 MSOM Annual Meeting (Special Interest Group, Supply Chain Management)
- 2018 INFORMS Annual Meeting
- 2018 POMS Annual Meeting
- 2018 DSI Annual Meeting
- 2017 INFORMS Annual Meeting
- 2017 POMS Annual Meeting

Distressed Selling by Farmers: Model, Analysis, and Use in Policy-Making

- 2019 Water for Food Global Conference
- 2017 POMS Annual Meeting
- 2016 POMS Annual Meeting
- 2016 INFORMS Annual Meeting
- 2015 INFORMS Annual Meeting
- 2015 ISB-POMS Annual Workshop

Optimal Descending Mechanisms for Constrained Procurement

- 2015 INFORMS Annual Meeting
- 2014 MSOM Annual Meeting
- 2013 INFORMS Annual Meeting

Non Peer-Reviewed or Contributed Conference Presentations

On a Modification of the VCG Mechanism and Its Optimality

- 2014 INFORMS Annual Meeting

Understanding Knee-points in Bi-criteria Problems and Their Implications as Preferred Solution Principles:

- 2010 Swarm, Evolutionary, and Memetic Computing Conference

TEACHING EXPERIENCE

Teaching at University of Nebraska Lincoln

- SCMA 350 *Business Analytics/Information Analysis* (undergraduate, in-person): 10 sections in total
 - *Semesters:* Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022.
- SCMA 855 *Prescriptive Analytics* (Graduate/MBA, online): 5 sections in total
 - *Semesters:* Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023

Teaching at Texas State University

- QMST 2333 *Business Statistics* (undergraduate, in-person): 7 sections in total
 - *Semesters*: Fall 2016, Spring 2017, Fall 2017, Spring 2018.
- BA 5353 *Understanding and Analyzing Organizational Problems* (MBA, hybrid): 5 sections in total
 - *Semesters*: Fall 2017, Spring 2018.

Teaching at University of Texas at Dallas

- OPRE 3360 *Managerial Methods in Decision Making Under Uncertainty* (undergraduate, in-person): 2 sections in total
 - *Semesters*: Fall 2014, Summer 2016
- OPRE 3310 *Operations Management* (undergraduate, in-person): 1 section in total
 - *Semesters*: Spring 2016

Membership in Thesis Committees

- Dissertation Committee Member, Yinshi (Agnes) Gao, PhD Student of Business Administration, Pennsylvania State University (Graduation: May 2023; Dissertation Title: A Dissertation in O.E.M. Servicing Operations)

Teaching Recognitions

- Awarded the MBA Distance Teaching Award, University of Nebraska Lincoln (2021)
- Nominated for College of Business' Distinguished Teaching Award, University of Nebraska Lincoln (2022)
- Nominated for College of Business' Distinguished Teaching Award, University of Nebraska Lincoln (2021)
- Nominated for College of Business' Distinguished Teaching Award, University of Nebraska Lincoln (2020)

SERVICE

Service to the Supply Chain Management and Analytics (SCMA) Department

- Coordinator, SCMA Guest Seminar Series (2021–22, 2022–23, 2023–24)
- Member, Faculty Search Committee, Assistant Professor of Practice position (2022–23)
- Member, Faculty Search Committee, Assistant Professor of Practice position (2019–20)

- Member, Faculty Search Committee, Tenure-track Assistant Professor position (2018–19)
- Member, Committee for Developing Supply Chain Workshops for High-School Students (2021)

Service to the College of Business

- Panelist, “How to Survive the Job Search for PhD Students”, College of Business, University of Nebraska Lincoln (2019)

Service to the Profession

- Member of the Editorial Review Board at Decision Sciences Journal (since May 2023)
- Invited Referee for Academic Journal (at least 47 reviews submitted from 2018–present²):
 - Manufacturing and Service Operations Management; Production and Operations Management; Operations Research; Management Science; Journal of Operations Management; Decision Sciences; European Journal of Operational Research; Decision Analysis; Journal of Scheduling; Transportation Research Part E: Logistics and Transportation Review; Supply Chain Forum: An International Journal; IEEE Transactions on Evolutionary Computation; IEEE Transactions on Systems, Man, and Cybernetics: Systems
- Invited Referee for Academic Conference:
 - International Conference on Information Systems, Logistics and Supply Chain in 2020
 - DSI Annual Meeting in 2019
 - MSOM Annual Meeting in 2018
- Conference Organizing:
 - Track Co-Chair: POMS Annual Meeting in 2021
 - Session Chair (for at least 9 invited sessions from 2018–present):
 - * POMS Annual Meeting in 2023, 2021, 2019, and 2018
 - * INFORMS Annual Meeting in 2023 and 2019
 - * DSI Annual Meeting in 2018
 - Member, Scientific Committee, International Conference on Information Systems, Logistics and Supply Chain in 2020
 - Member, Academic Organizing Committee, MSOM Annual Meeting in 2018
- Other Professional Service:
 - Invited as one of the Panelist on “Job Market Success” for the Post-Proposal Doctoral Consortium, DSI Annual Meeting in 2018
 - External reviewer for the curriculum design of the Master of Technology Program in Transportation Infrastructure and Logistic Management at Indian Institute of Technology Patna (2023)
 - Member, Faculty Search Committee, Texas State University (2017–18)

²The reviews submitted in different rounds of revisions for any given paper are counted individually.

OTHER PROFESSIONAL ACTIVITIES/ACHIEVEMENTS

Professional Development Workshops Attended

- 2023 INFORMS Business Analytics Conference
- Designing your Online Course Workshop, University of Nebraska Lincoln (2018)
- New Faculty Development Workshop, University of Nebraska Lincoln (2018–19)
- New Faculty Development Workshop, Texas State University (2016–17)

Awards and Honors

- PhD Dissertation Showcased in UTD's Spring 2018 Management Magazine
- Received Academic Excellence Award, Indian Institute of Technology Kanpur (2010)
- Received Top 1% of 27528 Candidates Certificate in Physics Olympiad, India (2003)

Mentoring and Supporting Students

- Writing Recommendation Letters for Students Applying to Graduate and Doctoral Programs (5 letters for undergraduate students and 2 letters for graduate students from 2018–present)

Competitive Grants and Scholarships

- Faculty Development (Travel) Grant (\$7700), Texas State University (2016–2017)
- Summer Research Grant (\$10000), Texas State University (2016)
- Research Enhancement Grant (\$8000), Texas State University (2016)
- Betty and Gifford Johnson Scholarship (\$2500), University of Texas at Dallas (2015)
- Graduate Studies Scholarship, University of Texas at Dallas (2011–2016)