**Saurabh Bansal**

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**Academic Positions**

* The Pennsylvania State University, Smeal College of Business. University Park, PA.
* Professor of Supply Chain Management, July 2023 – present
* Faculty of Operations Research, August 2011 – present.
* Faculty Affiliate, Center for Supply Chain Research, August 2010 – present.
* Faculty Affiliate, Laboratory for Economics, Management and Auctions, August 2010 – present.
* Associate Professor of Supply Chain Management, July 2018 – June 2023
* Assistant Professor of Supply Chain Management August 2010 – June 2018.
* Faculty Affiliate, Center for Climate Change Risk Management, August 2013 – 2019.

**Education**

* Ph.D. Risk Analysis and Decision Making, The University of Texas at Austin, 2010.
* B.S. Industrial Engineering, Indian Institute of Technology, 2002.

**Honors and Awards (Research)**

* Finalist, INFORMS Case Competition, 2023.
* Finalist, NFORMS Decision Analysis Practice Award. 2023.
* Winner, INFORMS Decision Analysis Society Publication Award. 2022.
* Winner, INFORMS Decision Analysis Practice Award. 2021.
* Winner, INFORMS Wagner Prize for the practice of Operations Research and Management Science, 2020.
* Winner, INFORMS Case Competition, 2019.
* Finalist, Biennial Applied Research Competition organized by Production and Operations Management Society, 2016.
* Penn State ICS Seed Grant for Immersive Analytics, 2016.
* Finalist, INFORMS Decision Analysis Society Practice Award, 2015.
* Research coauthor of Ph.D. student Asa Palley, Duke University, Honorable Mention, Society of Judgment and Decision Making Student Research Competition, 2015.
* Center for Supply Chain Research Grant, The Pennsylvania State University, 2015.
* Smeal Small Research Grant, The Pennsylvania State University, 2012, 2015, 2018.
* Emerging Scholar’s Program, Production and Operations Management Society, 2013.
* Supply Chain Management Center Research Grant, The University of Texas at Austin, 2009.
* The University of Texas Continuing Fellowship, The University of Texas at Austin, 2009.
* Dean’s Fellowship, The University of Texas at Austin, 2006-2008.
* Bonham Fund Scholarship, The University of Texas at Austin, 2006.
* William Cooper Fellowship, The University of Texas at Austin, 2005.

**Honors and Awards (Teaching and Service)**

* Best Core MBA Professor. 2022.
* Best Supply Chain Elective Professor in the MBA program. 2018, 2021.
* 40 Under 40 Business School Professors 2020 by Poets and Quants.
* Outstanding Editor Award. 2019. *Production and Operations Management*.
* Dilwyn Paiste III Fellow for Teaching Excellence, The Pennsylvania State University, 2012.
* Nominated, Fred Moore Award for Teaching Excellence, The University of Texas at Austin, 2008.

**Research Publications**

* Gupta, S., Bansal, S., Dawande, G., Janakiraman, G. 2024. Trust-and-Evaluate: A Dynamic Non-Monetary Mechanism for Internal Capital Allocation. Forthcoming at *Management Science*.
* Gao, Y., Bansal, S., Guide D. 2023. OEM-servicizing with a multi-usecycle product: Model analysis and insights. *Production and Operations Management*. 32(12): 4021:4048
* Chen, W., He, Y., Bansal, S. 2023. Dynamic pricing when customers develop habit or satiation. *Operations Research*. 71(6): 1925:2396
* Bansal, S., Muthulingam, S. 2022. Can Precise Numbers Boost Energy Efficiency? *Production and Operations Management*. 31: 3264 – 3287
* Mutha, A., Bansal, S., Guide, D. 2022. Servicizing Demands of a Company: The Need for Inter-Functional Coordination. *Journal of Operations Management.* 68: 408 – 420
* Bansal S., Sabbaghi M., Sharma R., 2022 Should an Analyst Share Calibration Information with Experts? *Behavioral Decision Analysis,* Springer.
* Bansal S., Nagarajan M., 2022 Portfolio Management Issues in the Commercial Seed Industry: A Modeling Framework and Industry Implementation. *Agricultural Supply Chain Management Research: Operations and Analytics in Planting, Selling, and Government Interventions,* Springer Series in Supply Chain Management.
* Gupta S., Bansal S., 2022. Optimal Market-Integration Decisions by Policymakers: Modeling and Analysis of Agriculture Market Data. *Operations Research*. 70(1): 352 – 362
* Bansal, S., Nagarajan, M., 2022. A Monge sequence approach to solve game theoretic problems. *Operations Research*. 70(2): 805 – 814
* Mani, V., Thomas, D., Bansal, S*.* 2022.Estimating product substitution and basket abandonment effects in retail stores: Implications for assortment planning*. Management Science*. 68(7): 5002 – 5024
* Bansal S., Gutierrez G., Nagarajan M.,2021. Theory-driven Practical Approach to Integrate R&D and Production Planning for Portfolio Management in Agribusiness. *INFORMS Journal on Applied Analytics.* 51(5):332 – 346
* Bansal, S., Mutha, A., Guide, D. 2021. Managing the inter-functional tension between accounting- and financial-profits in remanufacturing multiple-usecycle products. *Production and Operations Management*. 30 (9), 2993 – 3014
* Mutha A., Bansal S., Guide V., 2021. Case Article: Managing Demand Uncertainty in Closed-Loop Remanufacturing. *INFORMS Transactions on Education*. 23(1): 8-12
* Bansal S., Lougee R., 2021. Introduction to the second edition of INFORMS Editor's Cut on Agribusiness. INFORMS.
* Bansal, S., Dyer, J. 2020. Planning for end-user substitution in agribusiness. *Operations Research*. 68(4): 1000 – 1019
* Bansal, S., Gutierrez, G. 2020. Estimating uncertainties using judgmental forecasts with expert-heterogeneity. *Operations Research*. 68(2): 309 – 654
* Bansal, S., Lowe, T., Jones, P., 2020. Case article: Suncrest AgriBusiness: Exploiting the Flexibility of Backup Capacity. *INFORMS Transactions on Education*. 23(1): 27-31
* Bansal, S., Panchmanova, D., 2019. Editorial for the Special Issue on Nonconvex Optimization. *The Engineering Economist*.
* Oprean D., Simpson M., Miller R., Keller K., Bansal S., Klippel A. K., 2019. Human Interpretation of Trade-Off Diagrams in Multi-Objective Problems: Implications for Developing Interactive Decision Support Systems. *HICSS*, pp. 1 – 10.
* Mutha, A., Bansal, S., Guide, D. 2019. Selling Assortments of Used Products to Third-Party Remanufacturers. *Production and Operations Management*. 28(7): 1792 – 1817
* Bansal, S., Rosokha, Y. 2018. Impact of compound and reduced risk specification on valuation of projects with multiple risks. *Decision Analysis*. 15(1): 27 – 46.
* Bansal, S., Dyer, J. S. 2017. Multivariate partial-expectation results for exact solutions of two-stage problems. *Operations Research*. 65(6): 1526 – 1534.
* Bansal, S., Gutierrez, J. G., Keiser, J. 2017. Using experts’ noisy quantile judgments to quantify risks: theory and application to agribusiness. *Operations Research.* 65(5): 1115 – 1130.
* Bansal, S., Nagarajan, M. 2017. Product portfolio management with production flexibility in agribusiness. *Operations Research.* 65(4): 914 – 930.
* Bansal, S., Gutierrez, J. G., Keiser, J. 2016. Quantifying uncertainties and risks using managerial judgments in a dynamic new product development environment. *Production and Operations Management.* 25(12):2010 – 2013.
* Mutha, A., Bansal, S., Guide, D. 2016. Managing demand uncertainty through core acquisition in remanufacturing. *Production and Operations Management*. 25(8):1449 – 1464.
* Transchel, S., Bansal, S., Deb, M. 2016. Managing production of high-tech products with high production quality variability. *International Journal of Production Research*. 54(6):1689 – 1707.
* Bansal, S., Moritz, B. 2015. Perceived versus actual value of product substitution flexibility: An experimental investigation. *Journal of Operations Management*, 38: 56 – 70.
* Bansal, S., Transchel, S. 2014. Managing supply risk for vertically differentiated co-products. *Production and Operations Management*, 23(9): 1577 – 1598.
* Bansal, S., Dyer, J. S. 2014. Updating inventories of substitutable resources in response to forecast updates. *Production and Operations Management,* 23(3): 477 – 488.

**Teaching Cases**

* Mutha A., Bansal S., Guide V., 2023. ReCellular Inc: Managing Demand Uncertainty in Closed-Loop Remanufacturing. *INFORMS Transactions on Education*. 24(1): 8-12
* Bansal, S., Lowe, T., Jones, P., 2020. Suncrest AgriBusiness: Exploiting the Flexibility of Backup Capacity. *INFORMS Transactions on Education*. 23(1): 32-34
* Bansal, S., Lowe, T., Jones, P., 2017. Suncrest Agribusiness Company: Optimizing Seed Production. Ivey Publishing.

**Technical Reports**

* Bansal, S., 2019. How much do farmers value consistency in biomass production? A survey and results. Report for the *Federal Aviation Administration*.
* Bansal, S., G. Gutierrez. 2019. Optimal Aggregation of Individual Judgmental Forecasts to Support Decision Making in a R&D Program. Report for the *Federal Aviation Administration*.
* Bansal, S., T. Wang. 2019. Using Subjective Probability Distributions to Support Supply Chain Decisions for Innovative Agribusiness Products. Report for the *Federal Aviation Administration*.

**Invited Seminars**

University of Houston, 2023; University of Florida, 2023; The University of Texas at Austin, 2019; Texas A&M University, 2017; IBM TJ Watson Center, 2017; George Washington University, 2015; Indian School of Business, 2014; University of Virginia, Darden School of Business, 2014; University of Texas at Dallas, 2013; University of Minnesota, 2013; IBM TJ Watson Center, 2013; Southern Methodist University, 2012; Syracuse University, 2012; University of Oregon, 2009; The Pennsylvania State University, 2009.

**Invited Presentations in Conferences**

* INFORMS. 2006,2008, 2009, 2011-2019
* Production and Operations Management (POMS). 2011, 2013, 2014, 2015, 2016.
* Advances in Decision Analysis (ADA). 2014.
* Manufacturing and Service Operations Management (MSOM). 2013.

**Invited Panelist in Conferences**

* Institute for Operations Research and Management Sciences (INFORMS). Panel on Teaching. 2018.
* Decision Sciences Institute: Panel on “Advice to Assistant Professors for Managing Career”. 2018.
* Industry Studies Association: Panel on publishing practice based work in academic journals. 2022.

**Funded Research (Selected)**

* Principal Investigator, Risk-informed Alternative Jet Fuel (AJF) Supply Chain Analysis, Multi-year research program to develop biofuel supply chains for jet fuel from biomass

Sponsor: *Federal Aviation Administration*,

* Affiliated Investigator, Northeast Woody/Warm-season Biomass Consortium (NewBio), Multi-year research program to develop biofuel supply chains.

Sponsor: *United States Department of Agriculture*

* Affiliated Investigator, Consortium for Cultivating Human And Naturally reGenerative Enterprises (C-Change), Multi-year research program to develop biofuel supply chains.

Sponsor: *United States Department of Agriculture*

 **Teaching Experience**

* **The Pennsylvania State University** (on a scale of 1 to 7)
	+ BA 810 (MBA): Core Supply Chain and Operations Management
		- 2022. 2023: Median 7:00
	+ BA 810-310 (Executive MBA): Core Supply Chain and Operations Management
		- 2022, 2023: Median 7:00
	+ SCM 530 (Online Masters): Supply Chain Modeling
		- 2017 - 2021: Average Evaluation: 6.43 to 6.86
	+ SCM 570 (MBA): Supply Chain Modeling
		- Spring 2015-2022: Average Evaluation: 6.55 to 7.00
	+ SCM 421 (BBA): Supply Chain Modeling and Analytics
		- Spring 2011-2016: Average Evaluation: 6.66 to 7.00.
	+ SC&IS 545 (Ph.D.): Monte Carlo Simulations
		- Spring 2012: Average Evaluation: 6.59.
	+ SCM 421H (BBA): Supply Chain Modeling Honors
		- Spring 2012: Average Evaluation: 6.85.

**Student Research Supervision**

* Doctoral Supervision: Member/co-supervisor on 18 dissertation committees.
* Masters Supervision: Member/co-supervisor on 8 theses
* Schreyer’s Honors Undergraduate Thesis Supervision: Supervisor on 4 theses

**Service (External to Penn State)**

* Associate Editor
	+ *INFORMS Journal on Applied Analytics* (2020 – present)
	+ *Operations Research* (2019 – present)
	+ *MS&OM* (2020 – present)
	+ *Production and Operations Management* (2017 – present)
* Editor
	+ INFORMS edited volume on Agribusiness (2016 -- present)
	+ Special Issue on Portfolio Optimization at *The Engineering Economist* (2018-2019)
	+ Special Issue on Decision Analysis applications at *The INFORMS Journal on Applied Analytics* (2020 - current)
	+ Special Issue on Circular Economy *Journal of Operations Management* (2021 - current)
* Editorial Review Board: *Decision Analysis* (2019 – present).
* Referee: *Operations Research, Management Science, Manufacturing and Service Operations Management, Production and Operations Management, Journal of Operations Management, Decision Sciences, Naval Research Logistics, IEEE Transactions on Management, IIE Transactions, IBM Journal of Management*, *Marketing Science, Decision Analysis, European Journal of Operations Research, Journal of Quality Technology, International Journal of Production Research.*
* Judge Panels
	+ INFORMS Prize for Teaching OR/MS Practice (2022-24)
	+ Clemen-Kleinmuntz Decision Analysis Best Paper Award (2021-2022, 2024)
	+ POMS Wikham Skinner Teaching Award (2020)
	+ Manuf. & Service Operations Management Society Best Student Paper Award (2018, 2020).
	+ Annual Behavioral Operations Conference (2015).
	+ INFORMS Agribusiness Analytics Competition (2017).
	+ INFORMS Business Analytics Competition (2017, 2018, 2019).
	+ Decision Analysis Practice Award Competition (2018).
* Track Chair at Academic Conferences
	+ INFORMS (Decision Analysis Track: 2017, 2018).
	+ POMS (Agribusiness Track: 2021; Practice: 2024)
	+ Decision Sciences (Practice Track: 2021)
* Session Chair for Academic Conferences
	+ INFORMS (2015, 2017, 2018).
	+ Production and Operations Management (2013, 2015, 2016).
* Service in Professional Organizations
	+ Council member, *Decision Analysis Society* at INFORMS. 2017-2018.
* External Letter writer for tenure: George Washington University, McGill University, University of Missouri at St. Louis – order randomized for anonymity.

**Service (Internal to Penn State)**

University:

* Faculty Senator (2020-2024)

Served on the following committees: Senate Council; Faculty Affairs, Committee on Research, Scholarship, and Creative Activity

* Steering Committee member for the Operations Research program (2020- present)

Smeal College of Business

* Dean search committees: Assistant Dean (2022); Dean (2024)
* Smeal Faculty Senator Communication Point Person (2021- 2024)
* Alternate representative to the University Graduate Council (2019-22)
* Smeal Promotion and Tenure Committee (PATCOM) (2021-22)
* Smeal Graduate Policy Committee (2019-2021)
* Faculty Advisory Committee (2023-2025)

Department

* Departmental advisor for Schreyer Undergraduate Honors Program (2023- present)
* Steering Committee for the Center for Supply Chain Research (2021 – present)
* Ph.D. Coordinator, SCIS (Spring 2019)
* Department Research Seminar Series (2016-2017)

**Leadership Training (Internal to Penn State)**

Penn State Emerging Academic Leader (PSEAL) program Cohort 2024.

<https://vpfa.psu.edu/penn-state-emerging-academic-leaders-pseal-2/>