

Vishal Ahuja

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Academic Employment	SOUTHERN METHODIST UNIVERSITY, DALLAS TX ASSISTANT PROFESSOR, COX SCHOOL OF BUSINESS	Aug 2014-present
	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER, DALLAS TX ADJUNCT ASSISTANT PROFESSOR OF CLINICAL SCIENCES AND INTERNAL MEDICINE	Sep 2015-present
	THE UNIVERSITY OF CHICAGO, CHICAGO IL National Institute on Aging (NIA) Postdoctoral Fellow	Oct 2013-Jul 2014
Education	THE UNIVERSITY OF CHICAGO, BOOTH SCHOOL OF BUSINESS, CHICAGO IL PhD, Business Administration (Operations Management)	2013
	• <i>Thesis: Determining Optimal Treatments for Patients: Clinical Trials and Beyond</i> MBA	2013
	UNIVERSITY OF TORONTO, TORONTO, ONTARIO M.A.Sc., Chemical Engineering and Applied Chemistry	2001
	PANJAB UNIVERSITY, CHANDIGARH, INDIA B.E. (<i>Honors</i>), Chemical Engineering	1997
Academic Affiliations	<ul style="list-style-type: none">• Department of Veterans Affairs, North Texas Health Care System• The Center for Translational and Policy Research of Chronic Diseases, University of Chicago	
Research Interests	<i>Application:</i> Healthcare policy (primary), Energy policy <i>Methods:</i> Data Analytics; Optimization; Bayesian Statistics; Econometrics	
Publications	Ahuja, V. and J. R. Birge. "Response-Adaptive Designs for Clinical Trials: Simultaneous Learning from Multiple Patients." <i>European Journal of Operational Research</i> . 248 (2016) 619-633. <ul style="list-style-type: none">• <i>Winner, INFORMS Pierskalla Award for the Best Paper in Healthcare, 2012</i>• <i>Semifinalist, INFORMS Innovation in Analytics Award, 2012</i>• <i>Finalist, Lee Lusted Prize, Society for Medical Decision Making (SMDM), 2012</i> Ahuja, V and C.-H. Chou "Novel Therapeutics for Diabetes: Uptake, Usage Trends, and Comparative Effectiveness." <i>Current Diabetes Reports</i> . ¹ 2016, 16 (6), 1-10 Ahuja, V., M.-W. Sohn, J. R. Birge, C. Syverson, E. Budiman-Mak, N. Emanuele, J. M. Cooper, and E. S. Huang. "Geographic Variation in Rosiglitazone use Surrounding FDA Warnings in the Department of Veterans Affairs." <i>J Manag Care Spec Pharm</i> . ² 2015;21(12):1214-34.	
Working Papers /Under review	Ahuja, V., Alvarez, C. A., J. R. Birge, and C. Syverson. "Enhancing Regulatory and Clinical Decision-Making for Optimal Postmarket Drug Use." <i>Under Review</i> . <ul style="list-style-type: none">• <i>Finalist, POMS College of Healthcare Operations Management Best Paper Competition, 2016</i>	

¹ 2018 Impact Factor= 3.387

² 2017 Impact Factor= 2.46

Ahuja, V., Alvarez, C., and B. R. Staats. "Maintaining Continuity in Service: An Empirical Examination of Primary Care Physicians." 2018. *Under 2nd round review at Manufacturing & Service Operations Management.*

Ahuja, V. and J. R. Birge. "Approximation methods for Markov Decision Processes with Application to Clinical Trial Design." 2018. *R&R at INFORMS Journal on Computing.*
• *Runner-up, POMS College of Healthcare Operations Management Best Paper Competition, 2018*

Bountali, O., S. Cetinkya, and V. Ahuja. "On the Impact of Treatment Restrictions for the Indigent Suffering from a Chronic Disease: The Case of Compassionate Dialysis" 2018. *Under Review.*

Iveniuk J., L. Waite, V. Ahuja, C.-H. Chou and E. S. Huang. "Relationship quality and diabetes in older couples." 2017. *Working Paper.*

Research in Progress

Ahuja, V., Y. Alan, and M. Arikan. "The Role of Government Regulations on Operational Performance: Evidence from the Wright Amendment Repeal."

Ahuja, V. Y. Alan, and R.C. Savaskan-Ebert. "A Model of Interplay between Regulations, Speed, and Quality in New Drug Development."

Ahuja, V., M. E. Bowen, and M. Hahsler. "An analytics-driven approach to developing (individualized) optimal screening guidelines for diabetes patients."

Proceedings / Other Publications

Ahuja, V., J. R. Birge J., and Ryan C. (2014). "Approximation Methods for Determining Optimal Allocations in Response Adaptive Clinical Trials." In *Proceedings of the 3rd International Conference on Operations Research and Enterprise Systems, Angers, Loire Valley, France, March 6-8, 2014, pages 460-465.*

Ahuja, V. and J. R. Birge. "Designing Fully Adaptive Clinical Trials." *Proceedings of the 7th INFORMS Workshop on Data Mining and Health Informatics (DM-HI 2012) H. Yang, D. Zeng, O. E. Kundakcioglu, eds.*

Ahuja, V., Z. Tan, K. M. Weishar, and D. W. Reeve. "Oxygen Delignification as Affected by Novel Transition Metal Catalysts." *Pulp & Paper Canada*, p. 40, 103:7 (2002).

Research Funding

• PI (with Sila Cetinkya). "Improving Quality and Efficiency at Parkland Hospital: Addressing Congestion in the Delivery of Care to Uninsured Patients." Interdisciplinary Seed Funding, Lyle School of Engineering and Cox School of Business, SMU, \$20,000, 2016.

Honors and Awards

Semi-finalist, POMS College of Healthcare Operations Mgmt Best Paper Award	2018
Finalist, POMS College of Healthcare Operations Mgmt Best Paper Award	2016
NIA Postdoctoral Fellowship, The University of Chicago	2013-14
Katherine Dusak Miller PhD Fellowship, The University of Chicago	2011-2013
Winner, INFORMS Pierskalla Award for the Best Paper in Healthcare	2012
Semifinalist, INFORMS Innovation in Analytics Award	2012
Finalist, Lee Lusted Prize, Society for Medical Decision Making (SMDM)	2012
Nominated to attend Future Academic Colloquium, INFORMS	2012
Invited to present at Healthcare SIG, MSOM, Columbia University, NYC	2012
Doctoral Fellowship, The University of Chicago Booth School of Business	2008-2012
Performance award for exceptional service to the executive MBA program	2011
Summer Research Award, The University of Chicago Booth School of Business	2009
<i>Power of You</i> Gold Award, Procter & Gamble	2007

Invited Talks

Academic Institutions

- 2018: George Washington University School of Business, University of Maryland (Smith), Georgetown (McDonough), SMU Tower Center for Political Studies, University of Houston Engineering (scheduled), SMU Statistics (scheduled)
- 2017: Singapore University of Technology and Design, University of Chicago (Booth)
- 2014: UT Austin (McCombs), London Business School, University of Toronto (Rotman), University of North Carolina (Kenan-Flagler), Southern Methodist University, (Cox), Yale University (School of Management), University of Illinois at Urbana-Champaign (College of Business), McGill University (Desautels), INSEAD, University of Pennsylvania (Wharton)
- 2013: Cornell University (Johnson)
- 2011: University of Chicago (Booth)

Organizations

- 2018: Expert Panelists, FDA and The Duke-Margolis Center for Health Policy workshop on *Assessing the Public Health Impact of Prescription Drug Postmarketing Safety Labeling Changes*

Conferences

- 2018: POMS (Houston, TX), INFORMS (Phoenix AZ, scheduled)
- 2017: POMS (Seattle WA), INFORMS Healthcare conference (Rotterdam), INFORMS (Houston TX)
- 2016: INFORMS (Nashville TN), POMS (Orlando, FL), DSI (Austin TX)
- 2015: INFORMS (Philadelphia PA), "Patient-Centric HealthCare Management" Conference at Indiana University, INFORMS Healthcare (Nashville TN), POMS (Washington D.C.)
- 2014: ISB-POMS (Hyderabad, India), INFORMS (San Francisco, CA)
- 2013: INFORMS (Minneapolis MN), MSOM (INSEAD, France), POMS (Denver CO)
- 2012: SMDM Conference (Phoenix AZ), INFORMS (Phoenix, AZ), MSOM (Columbia University, NY), Trans Atlantic Doctoral Conference (London Business School)
- 2011: Informs Healthcare (Montreal ,Canada)
- 2010: INFORMS (Austin, TX)

**Service /
Professional
Activities**

Southern Methodist University

- Faculty Recruitment Committee, 2016-present
- Co-organizer, ITOM Department seminar series, 2015-18
- HIMSS-ITOM Scholarship Faculty Committee, 2014, 2016-present

Profession

- Cluster co-chair for "Health Operations Management" (approx. 15 sessions), Informs Healthcare Conference (Rotterdam), 2017
- Minitrack co-chair for "IT-Enabled Healthcare Coordination," HICSS 2017
- Session Chair, INFORMS (2015-), INFORMS Healthcare (2013-), POMS (2014, 2016-), INFORMS Computing Society Conference (2017)
- Panelist, Business Analytics Research, DSI (2016)
- Co-chair, INFORMS Pierskalla Award Competition (2013)

Ad-hoc Reviewer for:

- *OM/OR journals*: Operations Research, Management Science, M&SOM, POMS, European Journal of Operational Research, Annals of Operations Research, IIE Transactions, INFORMS Journal on Computing
- *Clinical journals*: Journal of Managed Care Pharmacy
- *Grants*: National Science Foundation (2015)
- Members of: INFORMS, POMS, DSI
- Licensed Professional Engineer in the province of Ontario, Canada (2005-present)

Media Mentions	<p>Inside the Alleged Pharma Scheme at Dallas' Medoc Health Services, <i>D CEO Magazine</i>, September 2018.</p> <p>Thought Leaders Corner, How Can Analytics Help Promote Population Health? <i>Population Health News</i>, September 2018.</p> <p>Gatekeepers Hold Key to Lower Costs in Health Care, <i>Cox School of Business News Room</i>, October 2017.</p> <p>New Research Says Discouraging Continuity Of Care Could Be A Mistake, <i>D CEO Magazine</i>, June 2018.</p> <p>Big Data: Using Data Analytics to Enhance Drug Safety, <i>Cox School of Business News Room</i>, September 2015.</p> <p>Why doctors ignore drug warnings, <i>Chicago Booth Review</i>, February 2015.</p> <p>A Class Act, <i>India Today</i>, September 9, 2013 issue.</p> <p>The Personal MBA, <i>Mail Today</i>, September 3, 2013.</p> <p>New Research Could Lead To Shorter And Cheaper Drug Trials, <i>Press Release</i>, University of Chicago Booth School of Business, July 2013.</p> <ul style="list-style-type: none"> • <i>Press release picked up by several media outlets</i> <p>How Math Can Improve Drug Trials and Save Lives, <i>Capital Ideas</i>, Summer 2013 edition.</p> <ul style="list-style-type: none"> • <i>Featured in Chicago Booth Magazine, Fall 2013 edition</i> <p>Three Faculty Members Honored For Operations Research, <i>Chicago Booth Magazine</i>, Winter 2013 edition.</p>
Teaching Experience	<p>SOUTHERN METHODIST UNIVERSITY, COX SCHOOL OF BUSINESS, DALLAS TX</p> <p>ITOM 6203: OPERATIONS MANAGEMENT (MBA CORE) 2014-</p> <ul style="list-style-type: none"> • <i>Rating (out of 7.0): 6.39, 5.40, 5.83, 6.49, 6.38, 6.40, 6.52, 5.78, 6.10, 6.44</i> <p>ITOM 6224: MANAGING SERVICE OPERATIONS (MBA ELECTIVE) 2015-</p> <ul style="list-style-type: none"> • <i>Rating (out of 7.0): 6.67, 6.39</i> <p>THE UNIVERSITY OF CHICAGO, BOOTH SCHOOL OF BUSINESS, CHICAGO IL</p> <p>Teaching Assistant for Operations Management (core), MBA and Executive 2009-2012</p> <ul style="list-style-type: none"> • <i>Rating 4.7/5.0 (n ~ 90), Executive</i> <p>"Management Labs", MBA elective 2008</p> <p>UNIVERSITY OF TORONTO, TORONTO, ONTARIO</p> <p>Teaching Assistant for several undergraduate engineering courses 1999-2001</p>
Industry Experience	<p>PROCTER & GAMBLE INC., TORONTO, ONTARIO</p> <p><i>IT Project Manager</i> 2005-2008</p> <ul style="list-style-type: none"> • Led the implementation of a \$1 MM financial reporting system that enabled customer sales teams worldwide to drive sustainable and profitable growth. • Managed several key projects (\$100,000-\$1 MM) as a part of SAP ERP software upgrade. <p>ERCO WORLDWIDE, TORONTO, ONTARIO</p> <p><i>Project Engineer</i> 2002-2004</p> <ul style="list-style-type: none"> • Spearheaded the R&D of a novel air pollution technology for reducing harmful stack emissions from coal-fired plants • Conducted feasibility studies, competitive technology review, design of experiments, and cost model design.

CELESTICA INC., TORONTO, ONTARIO

Associate Manufacturing Engineer

2001

- Single-handedly managed the production, quality and timely delivery of over \$2 million worth of electronic assemblies per week.

INDIAN INSTITUTE OF TECHNOLOGY & GE PLASTICS, NEW DELHI, INDIA

Research Associate

1997-1998

- Conducted R&D on the design of thermoformed products based on engineering plastics
- Launched a novel commercial polycarbonate signage product, at half the production cost.

Miscellaneous

Computing: Matlab, SAS, Stata, Ampl, CPLEX, SAP, Data Warehousing, MS Access

Citizenship: Canadian Citizen; US Permanent Resident

Languages: English (fluent), Hindi (native)

Volunteering: Mentoring Engineering students at University of Toronto (2015-), On leadership team of Asian Diversity Network at P&G (2007-08)

References

Available upon request