# Vishal Gupta

http://faculty.marshall.usc.edu/Vishal-Gupta/


CONTACT INFORMATION

Marshall School of Business
3670 Trousdale Parkway, BR 401 G
Los Angeles, CA 90089

guptavis@usc.edu
Google Scholar
YouTube


RESEARCH INTERESTS

Data-driven optimization in settings with scarce data or high-dimensional uncertainty. Applications in prescriptive analytics, causal inference, and AI.

EMPLOYMENT

**Marshall School of Business**, Los Asngeles, CA
*Associate Professor (w. tenure) of Data Sciences and Operations* **2021 - Present**
*Assistant Professor of Data Sciences and Operations* 2014 - 2021

**Analytics Operations Engineering, Inc.**, Boston, MA **Summer 2011**
*Summer Associate*

**Barclays Capital**, New York, NY **2005 - 2009**
*New York Head of Commodities Tactical Modeling* 2008 - 2009
*Manager*, Quantitative Analytics Commodities Modeling Group 2007 - 2008
*Analyst*, Quantitative Analytics Commodities Modeling Group 2005 - 2007

EDUCATION

**Massachusetts Institute of Technology**, Cambridge, MA **2009 - 2014**
Ph.D. in Operations Research
- Thesis: Data-Driven Models for Uncertainty and Behavior
- Advisor: Prof. Dimitris Bertsimas

**University of Cambridge**, Cambridge, England **2004 - 2005**
Part III Mathematics Tripos
- Graduated with "Distinction"
- Essay: Hedging Financial Derivatives as a Differential Game

**Yale University**, New Haven, CT **2000 - 2004**
B.A. in Mathematics and Philosophy
- Graduated with Honors, Magna Cum Laude
- Phi Beta Kappa

HONORS / AWARDS

**Daniel H. Wagner Prize for Excellence in the Practice of Advanced Analytics and Operations Research, Finalist** **2021**
Awarded for paper "Interpretable OR for High-Stakes Decision-Making: Designing the Greek COVID-19 Testing System."
The Wagner Prize recognizes strong mathematics applied to practical problems and is awarded to a paper demonstrating strong analytical content, good writing, and verifiable success in practice. One of 4 finalists.

**Pierskalla Best Paper Competition Finalist** **2021**
Awarded by the Health Applications Society of INFORMS for the paper "Deploying an Artificial Intelligence System for COVID-19 Testing at the Greek Border," (*with H. Bastani, K. Drakopoulos, J. Vlachogiannis, C.*

*Hadjicristodoulou, P. Lagiou, G. Magiorkinis, D. Paraskevis, S. Tsiodras).* INFORMS selects 3-5 finalists each year to recognize research excellence in the field of health care management science.

**Public Sector Operations Research Best Paper Award, Finalist** **2021**
Awarded by the Public Sector Operations Research Society of INFORMS for the paper "Deploying an Artificial Intelligence System for COVID-19 Testing at the Greek Border," (*with H. Bastani, K. Drakopoulos, J. Vlachogiannis, C. Hadjicristodoulou, P. Lagiou, G. Magiorkinis, D. Paraskevis, S. Tsiodras).* INFORMS selects 4 papers judged to the best quality across all disciplines and application areas represented within public sector operations research.

**Post-Pandemic Supply-Chain and Healthcare Management Best Paper Competition Finalist** **2021**
Awarded for the paper "Deploying an Artificial Intelligence System for COVID-19 Testing at the Greek Border" by the Post-Pandemic Supply-Chain and Healthcare conference. One of 6 finalists.

**Dr. Jagdish Sheth Impact of Research on Practice Award** **2021**
Awarded to a USC Marshall faculty each year whose research has meaningfully changed the practice of business, regulators, or society at large. Award criteria include documented evidence of substantive real-world impact, the breadth of that impact, and the degree of adoption by key stakeholders. Awarded in 2021 for our on-going collaboration with the Greek Government in their management of the COVID-19 pandemic.

**Deans Award for Research Excellence** **2020**
Awarded to two faculty members at USC Marshall whose research meets the highest aspirations of the Marshall School and USC. Criteria for award include an exceptional publishing record, recognized scholarship outside the university, and significant research impact across their respective fields.

**Management Science Meritorious Service Award** **2018, 2019, 2020**
Awarded to a select group of reviewers for consistently writing "timely, unbiased, and thoughtful" referee reports.

**Pierskalla Best Paper Competition Finalist** **2018**
Awarded by the Health Applications Society of INFORMS for the paper "Maximizing Intervention Effectiveness" (*with B.R. Han, S.H. Kim and H. Paek).* INFORMS selects 3-5 finalists each year to recognize research excellence in the field of health care management science.

**Service Science Best Paper Competition Finalist** **2018**
Awarded by the INFORMS Service Science Section for the paper "Value of Personalized Pricing" (*with A. Elmachtoub and M. Hamilton).* 8 finalists are chosen each year to recognize outstanding papers in theory, methodologies, and applications of service science.

**POMS CHOM Best Paper Competition Finalist** **2018**
Awarded by the College of Healthcare Operations Management (CHOM) for the paper "Maximizing Intervention Effectiveness" (*with B.R. Han,*

*S.H. Kim and H. Paek).* CHOM selects 3-5 finalists each year to honor outstanding papers in the field of healthcare operations management.

**Evan C. Thompson Teaching and Learning Innovation Award** **2016**
Awarded for curriculum redesign of *BUAD 425: Data-Analysis for Decision-Making*. Awarded to one Marshall faculty member per year for developing innovative course materials, implementing new learning pedagogies and demonstrating commitment to students' learning and success.

**George Nicholson Student Paper Competition Finalist** **2013**
Awarded for the paper "Data-Driven Robust Optimization," *(with D. Bertsimas and N. Kallus).* The George Nicholson Prize Committee selects approximately 8 papers each year to identify and honor outstanding papers in the field of operations research written by students.

**Best Student Paper Prize, MIT Operations Research Center** **2013**
Awarded for the paper "Robust SAA," *(with D. Bertsimas and N. Kallus).* Awarded to one student-authored paper each year in the MIT ORC PhD Program, recognizing outstanding achievement in operations research.

**MIT Teaching Certificate** **2013**
Issued at the completion of a semester-long, intensive course on best-practices for teaching in higher education.

**Honorable Mention, Hubway Data Visualization Challenge** **2013**
Open challenge to create a visualization for data comprising a half-million rides on Boston's Bike-Share network *(with H. Barrigan and A. Calmon).*

**Best Student Presentation, INFORMS Financial Services Section** **2012**
Awarded for "Fitting Investor Risk Preferences to Data."

**Nominated for Excellence in Teaching Award** **2012**
Awarded for teaching assistant role in the MBA Core Course "Data, Models and Decisions" at MIT Sloan. Selected by MBA students.

**Charles M. Vest Presidential Fellowship for Doctoral Studies** **2009 - 2010**
Awarded to three first-year graduate students at MIT across all fields to support their doctoral work.

**Paul Mellon Fellowship for Graduate Research** **2005**
Awarded to one graduating Yale senior to fully support two years of study at the University of Cambridge, UK, in the discipline of their choice.

**Timothy Dwight Masters Cup** **2004**
Awarded each year to a graduating senior who exemplifies high academic rank, scholarly achievement, and the values of Timothy Dwight College at Yale University.

GRANTS

**Optimization in the Small Data Regime** **2017 - 2021**
Role: Sole Principal Investigator Amount: $221,592
NSF Grant CMMI-1661732

**Small Data Linear Optimization** **2017 - Present**
Role: Principal Investigator Amount: $25,000
Outlier Research Grant
Institute for Outlier Research in Business (iORB), USC

PUBLICATIONS

Asterisk (*) indicates a student co-author.
*All authorship is alphabetical unless otherwise indicated.*

1. "Efficient and Targeted COVID-19 Border Testing via Reinforcement Learning," with H. Bastani, K. Drakopoulos, J. Vlachogiannis, C. Hadjicristodoulou, P. Lagiou, G. Magiorkinis, D. Paraskevis, S. Tsiodras.
***Nature*** (to appear), accepted 2021.
   - Finalist in the 2021 Pierskalla Best Paper Competition.
   - Finalist in the 2021 Public Sector Operations Research Best Paper Competition.
   - Finalist in the 2021 Post-Pandemic Supply-Chain and Healthcare Management Best Paper Competition.
   - Selected for Spotlight Presentation at the Reinforcement Learning for Real-Life Workshop (ICML 2021).

   *Notes: Authors H. Bastani, K. Drakopoulos and V. Gupta contributed equally to the work. A previous version of this work was titled: "Deploying an Artificial Intelligence System for COVID-19 Testing at the Greek Border."*

2. "Data-Pooling in Stochastic Optimization," with N. Kallus.
***Management Science*** (to appear), accepted 2020.

3. "Value of Personalized Pricing," with A. Elmachtoub and M. Hamilton*.
***Management Science*** (to appear), accepted 2020.
   - Finalist in the 2018 INFORMS Service Science Best Paper Competition.
   - Accepted to 15th Conference on Web and Internet Economics (WINE), 2019.

4. "Small-Data, Large-Scale Linear Optimization with Uncertain Objectives," with P. Rusmevichientong.
***Management Science***, Vol. 67, No. 1, pp. 220-241, 2021.

5. "Maximizing Intervention Effectiveness," with B.R. Han*, S.H. Kim, and H. Paek.
***Management Science***, Vol. 66, No. 12, pp. 5576-5598, 2020.
   - Finalist in the 2018 Pierskalla Best Paper Competition.
   - Finalist in the 2018 POMS College of Healthcare Operations (CHOM) Best Paper Competition.

6. "Near-Optimal Bayesian Ambiguity Sets for Distributionally Robust Optimization." (Single Author Work).
***Management Science,*** Vol. 65, No. 9, pp. 4242-4260, 2019.

7. "Robust Sample Average Approximation," with D. Bertsimas and N. Kallus.
***Mathematical Programming***, Vol. 171, pp. 217-282, 2018.

- Awarded 2013 Best Student Paper MIT Operations Research Center.

8. "Data-Driven Robust Optimization**,"** with D. Bertsimas and N. Kallus.
   ***Mathematical Programming****,* Vol. 167, pp. 235-292, 2018.
   - Finalist in the 2013 George Nicholson Student Paper Competition.

9. "A Comparison of Monte Carlo Tree Search and Mathematical Optimization for Large Scale Dynamic Resource Allocation," with D. Bertsimas, D. Griffith, M. Kochenderfer, and V. Mišić.
   ***European Journal of Operations Research****,* Vol. 263, No. 2*,* pp. 664-678, 2017.
10. "A Course on Advanced Software Tools for Operations Research and Analytics," with I. Dunning, A. King, J. Kung, M. Lubin and J. Silberholz.
    ***INFORMS Transaction on Education****,* Vol. 15, No. 2, pp. 169-179, 2015.

11. "Data-Driven Estimation in Equilibrium using Inverse Optimization," with D. Bertsimas and I. Ch. Paschalidis.
    ***Mathematical Programming****,* Vol. 153, pp. 595-633, 2015.

12. "Inverse Optimization: A New Perspective on the Black-Litterman Model," with D. Bertsimas and I. Ch. Paschalidis.
    ***Operations Research,*** Vol. 60, No. 6, pp. 1398-1403, 2012.

UNDER REVIEW

13. "Interpretable Operations Research for High Stakes Decision-Making: Designing the Greek COVID-19 Testing System," with H. Bastani, K. Drakopoulos, J. Vlachogiannis, C. Hadjicristodoulou, P. Lagiou, G. Magiorkinis, D. Paraskevis, S. Tsiodras.
    - Finalist in the 2021 Wagner Prize for Excellence in the Practice of Advanced Analytics and Operations Research.
    - Invited to the ***Informs Journal on Applied Analytics.***

    *Notes: Authors H. Bastani, K. Drakopoulos and V. Gupta contributed equally to the work.*

14. "Debiasing In-Sample Policy Performance for Small-Data, Large-Scale Optimization" with M. Huang* and P. Rusmevichientong.

INVITED BOOK CHAPTERS

15. "The Small-Data Optimization Regime and Inventory Management." (Single Author Work).
    ***Joint Learning and Optimization in Operations Management.***
    Editors: Xi Chen, Stefanus Jasin, and Cong Shi.

INVITED TALKS

*An asterisk (*) by a presentation below indicates that it was given by a student co-author.*

*"Real-Time, Targeted Covid-19 Screening at the Greek Border"*
- **INFORMS Annual Meeting**, Anaheim CA*, (10/2021)*
- **INFORMS Annual Meeting**, Virtual, (11/2020)
- **Dean's Dialogue Webinar Series, USC Marshall,** (11/2020)

- Guest Lecture, "IEOR 4650: Business Analytics," **Columbia University,** New York, NY (Nov. 2020). (Class targets Masters and PhD students)

"*Debiasing In-Sample Policy Performance in the Small-Data, Large-Scale Regime"*
- **INFORMS Annual Meeting**, (11/2021)*

*"Decision-Making under Data Scarcity"*
- Assistant Professor Research Day, **USC Marshall,** Los Angeles CA (12/2020)
- Operations Management Seminar, **USC Marshall,** Los Angeles CA (10/2020)

"*Learning Policy Performance in the Small-Data, Large-Scale Regime"*
- **INFORMS Annual Meeting**, (11/2020)*

*"Data-Pooling in Stochastic Optimization"*
- **INFORMS Annual Meeting**, Phoenix, AZ (11/2018)
- Joint Industrial Engineering and Operations Research and Decision, Risk and Operations Departmental Seminar, **Columbia University**, NY, New York (12/2018)
- Models and Algorithms for Sequential Decision-Making Problems Under Uncertainty Workshop, **Banff International Research Station**, Banff, Canada (1/2019)
- Southern California OR/OM Day, **UC Irvine,** Irvine, CA, (5/2019)
- Operations and Information Technology Departmental Seminar, **Stanford Graduate School of Business,** Palo Alto, CA (5/2019)
- 6th International Conference on Continuous Optimization (**ICCOPT**), Berlin, Germany (8/2019).
- Industrial and Systems Engineering Departmental Seminar, **University of Southern California,** Los Angeles, CA (9/2019)
- DSO Graduate Research Forum, **USC Marshall**, Los Angeles, CA (9/2019)
- Operations Management Departmental Seminar, **Booth School of Business at University of Chicago,** Chicago, IL (9/2019)
- **INFORMS Annual Meeting, Seattle**, WA (10/2019)
- Desautels Faculty of Management Departmental Seminar, **McGill University,** Montreal, CA (10/2019)
- Decisions, Operations and Technology Management Seminar, **UCLA Anderson School of Management,** Los Angeles, CA (11/2019)
- Guest Lecture, "IEOR 8100 Prescriptive Analytics," **Columbia University,** New York, NY (11/2019) (Class targets PhD Students)
- Technology and Operations Departmental Seminar, **University of Michigan Ross School of Business**, Ann Arbor, MI (12/2019)

"*Discrete Optimization in the Small-Data, Large-Scale Regime via Decomposition"*
- **INFORMS Annual Meeting**, Seattle, WA (10/2019)*

"*Probability Guarantees in Data-Driven Robust Optimization"*
- Guest Lecture, ISyE Reading Group, **USC Viterbi**, Los Angeles, CA (10/2019)

*"Operations Research and Analytics Education" (panel speaker)*
- 65th Operations Research Center Reunion, **Massachusetts Institute of Technology (MIT)**, Cambridge, MA (11/2018)

"*Optimization in the Small-Data, Large-Scale Regime"*
- 5th International Conference on Continuous Optimization (**ICCOPT**), Tokyo, Japan (8/2016). *Invited Session Chair for "Recent Advances in Data-Driven Optimization."*
- **INFORMS Annual Meeting**, Nashville, TN (11/2016)
- **INFORMS Annual Meeting**, Houston, TX (10/2017)
- DSO Graduate Research Forum, **USC Marshall**, Los Angeles, CA (12/2017)
- Operations and Logistics Division Seminar, **UBC Sauder School of Business**, Vancouver, Canada (1/2018)
- Technology and Operations Management Group Seminar, **INSEAD**, Paris, France (4/2018)
- Decision Sciences Group, **Duke Fuqua School of Business**, Durham, NC (5/2018)
- 23rd International Symposium on Mathematical Programming **(ISMP)**, Bordeaux, France (7/2018)
- 29th European Conference on Operations Research **(EURO)**, Valencia Spain (7/2018)
- Management Sciences and Operations Department Seminar, **Imperial College School of Business,** London, UK (7/2018)

"*Calibrating Uncertainty Sets in the Small-Data, Large-Scale Regime"*
- Distributionally Robust Optimization Workshop, **Banff International Research Station**, Banff, Canada (3/2018)

"*Maximizing Intervention Effectiveness"*
- **INFORMS Annual Meeting**, Nashville, TN (11/2016)*
- **MSOM** Conference, Chapel Hill, NC (6/2017)*
- **INFORMS Annual Meeting**, Houston, TX (11/2017)*
- **POMS Best Healthcare Paper Competition,** Houston, TX (5/2018)*
- **MSOM Healthcare SIG**, Dallas TX (7/2018)*
- International Conference on Stochastic Optimization **(ICSP),** Trondheim, Norway (7/2019). *Co-Chair of Mini-symposium: Doing Good with Good RO.*

"*Value of Personalized Pricing"*
- **INFORMS Annual Meeting**, Houston, TX (11/2017)*
- **POMS Annual Meeting,** Houston, TX (5/2018)*
- **INFORMS Revenue Management and Pricing (RMP) Conference,** Toronto CA (6/2018)*

"*Data-Driven Distributionally Robust Optimization"*
- Electrical Engineering Group, **USC Viterbi**, Los Angeles, CA (1/2016)

"*Near-Optimal Bayesian Ambiguity Sets in Distributionally Robust Optimization"*
- **INFORMS Annual Meeting**, San Francisco, CA (11/2014)
- Southern California OM/OR Conference, **UCLA** (5/2015)

- British-French-German **(BFG)** Conference on Optimization, London, UK (6/2015)
- 22nd International Symposium on Mathematical Programming (**ISMP**), Pittsburgh, PA (7/2015)
- **INFORMS Annual Meeting**, Philadelphia, PA (11/2015)

*"Modeling Uncertainty in Optimization"*
- DSO Graduate Research Forum, **USC Marshall**, Los Angeles, CA (2/2015)

"*Data-Driven Robust Optimization"*
- Conference on **Computational Management Science (CMS)**, Montreal, Canada (5/2013). *Invited Session Chair for "Robust Optimization II"*
- **MSOM Conference**, Paris, France (7/2013)
- **INFORMS Annual Meeting**, Minneapolis, MN (10/2013)
- Operations Management Seminar, **MIT Sloan School of Management**, Cambridge, MA (11/2013)
- **London Business School (LBS)**, London, UK (1/2014)
- **NYU Stern School of Business**, New York, NY (1/2014)
- **USC Marshall School of Business**, Los Angeles, CA (2/2014)
- **McCombs Business School** at University of Texas at Austin, Austin, TX (2/2014)
- Industrial and Operations Engineering at **University of Michigan**, Ann Arbor, MI (2/2014)
- **Carnegie Mellon University**, Pittsburgh, PA (2/2014)

"*Inverse Optimization Approaches to Estimation"*
- **21st International Symposium on Mathematical Programming (ISMP)**, Berlin, Germany (6/2012)
- **INFORMS Annual Meeting**, Phoenix, AZ (10/2012). *Invited Session Chair for "Optimization under Uncertainty."*

"*Constructing Investor Risk Preferences from Data"*
- **INFORMS Annual Meeting**, Phoenix, AZ (10/2012)
- **INFORMS Annual Meeting**, Minneapolis, MN (10/2013)

"*Inverse Optimization: A New Perspective on the Black-Litterman Model"*
- **INFORMS Annual Meeting**, Charlotte, NC (11/2011)

## TEACHING

**BUAD 493/494: Marshall Honors Research Seminar** **2021**
**Analytics and Operations Management**
Undergraduate
USC Marshall School of Business
Instructor, Course Development
*Two semester seminar to advise business honors students on conducting independent research in data science and operations that will ultimately culminate in their undergraduate thesis.*

**DSO 699: Foundations of Stochastic Modeling for Prescriptive** **2021**
**Analytics and Operations Management**

PhD and Graduate Students
USC Marshall School of Business
Instructor, Course Development
*New, core class in the Operations Management PhD Program. Covers fundamental results in probability theory, concentration of measure, convergence theorems with applications in data-driven operations management and prescriptive analytics.*

**DSO 699: Workshop on Expositional Writing in Mathematics** **2021**
PhD and Graduate Students
USC Marshall School of Business
Instructor, Course Development
*New, core class in the Operations Management PhD Program. Course helps students focus on best-practices when writing mathematics, particularly for peer-reviewed journals. Special emphasis on how to structure proofs, clearly explain methods and justify assumptions. Additional emphasis on explaining contributions, literature reviews, and visualizations and graphs in written documents.*

**DSO 670: Data-Driven Optimization: Theory, Methods and Current Themes** **2020**
PhD and Graduate Students
USC Marshall School of Business
Instructor
*This is a Ph.D. seminar course covering recent papers.*

**BUAD 311 Introduction to Operations Management** **2015, 2019 - 2021**
Undergraduate Core
USC Marshall School of Business
Instructor

**BUAD 425 Data-Analysis for Decision Making** **2016, 2017**
Undergraduate Core
USC Marshall School of Business
Instructor, Course Coordinator
*Redesigned course with new emphasis on critical thinking and decision-making. Authored cases, created online videos, and developed new curriculum content.*

**15.S60 Software Tools for Operations Research** **2013, 2014**
Ph.D., MBA and Executive MBA Elective
MIT Sloan School of Management
Instructor
*Designed new course with primary role in curriculum development. Oversaw course logistics and lectured on select topics in convex optimization.*

## PHD MENTORSHIP

- Advisor
  - Michael Huang, USC Marshall (2017 - Present)
  - Julia Balukonis, USC Marshall (2020 - 2021)

- Co-Author
  - Yunfan Zhao, Columbia IEOR (2020 - Present)

- Brian Rongqing Han, USC Marshall, (2016 - 2019)
  *First Placement:* Tenure-Track Assistant Professor at University of Illinois at Urbana-Champaign (UIUC), Gies School of Business
- Michael Hamilton, Columbia IEOR (2016 - 2019)
  *First Placement:* Tenure-Track Assistant Professor at University of Pittsburgh, Katz Graduate School of Business

- Qualifying Examination Committee
  - Shobhit Jain, USC Marshall Operations Management (2018)
  - Bradley Rava, USC Marshall Statistics (2019)
  - Bo Jones, USC Viterbi Industrial and Systems Engineering (2021)

- Dissertation Committee
  - Junyi Liu, USC ISyE (2019)
  - Michael Hamilton, Columbia IEOR (2019)
  - Brian Rongqing Han, USC Marshall (2020)

UNDERGRADUATE MENTORSHIP

- Xueqi Wang **2016 - 2017**
  - Went on to Duke Biostatistics PhD Program
- Qin "Henry" He **2019 – 2020**
  - Rising senior in Applied Mathematics/Economics at USC

OTHER PROJECTS

**Data-Driven Uncertainty Sets (DDUS)** **2014 - 2015**
*Software Developer*
- Created open-source library in Julia implementing a variety of data-driven methods for robust optimization (available via GitHub)
- Used by graduate classes at MIT, Columbia and universities.

**Sloan Educational Services (SES),** Cambridge, MA **2010 - 2014**
*Consultant*
- Liaised with educational services to design custom suite of software tools to streamline internal processes.
- Open-source tools developed in course of project:
  - *ClassE* - A tool for fair and efficient scheduling/timetabling of classes. This tool has (to my knowledge) been used to schedule classes at MIT Sloan since Spring 2012.
  - *StudyBuddies* - A tool to partition students in the Sloan Fellows Program into learning cohorts. Cohorts should be diversified in terms of gender, nationality, work experience and age.

UNIVERSITY SERVICE

**Data Sciences and Operations (DSO) PhD Coordinator** **2020 - 2021**
Oversees the Operations Management & Statistics PhD program. Serves on Marshall PhD committee which determines strategic directions of PhD Programs at school level.

**Operations Management (OM) Group PhD Coordinator** **2020 - 2021**
Manages the OM PhD program including admissions, screening and qualifying exams, on-going mentoring of students. Also heads OM PhD Committee and periodically assesses curriculum changes to PhD.

**BUAD 311 Core Course Coordinator** **2020, 2021**
Coordinated all BUAD 311 instructors to ensure curriculum consistency across sessions. Special focus on unifying course logistics in the face of the COVID-19 Pandemic and unexpected shift to online learning.

**Operations Management Group Tenure-Track Hiring Committee** **2019 - 2020**
*Co-Chair*
Led hiring committee, pre-interviewed candidates, and coordinated logistics with faculty and candidates for fly-outs and on-campus interviews.

**Data Sciences and Operations - Marketing Seminar Coordinator** **2018 - 2019**
Coordinated a bi-semester, brown-bag seminar with DSO and Marketing faculty to promote cross-group research collaboration.

**Operations Management Group PhD Committee** **2017 - 2020**
Helped design curriculum requirements for PhD program. Wrote the optimization screening exam each year. Served on PhD admissions committee, including reviewing applications and interviewing candidates.

**Data Sciences and Operations Seminar Series Coordinator** **2014 - 2019**
Invited visiting faculty to present research in departmental seminar. Coordinated all logistical aspects of visits and curated yearly speaker series.

**BUAD 425 Core Course Coordinator** **2017**
Liaised with Undergraduate Vice-Dean's Office and other core course coordinators to ensure Marshall meets IACSB accreditation standards and develop interdisciplinary approaches to achieving Marshall's Learning Objectives.

**Co-Organizer of 2017 So-Cal OR/OM Day** **2017**
Organized a one-day, single-track conference with approximately 40 attendees from USC, UCLA Anderson, UC Riverside, and UC Irvine showcasing junior faculty and PhD research in operations research and operations management.

## ACADEMIC SERVICE

**Associate Editor – *Management Science*** **2019 - Present**
Big Data Analytics Section

**Associate Editor – Manufacturing & Services Operations Management (MSOM)** **2021-Present**

**INFORMS 2021 Annual Conference Organizing Committee** **2020 - Present**
Contributed Sessions Planning Committee: Data-Driven Methods in Optimization. Solicit, organize and schedule research presentations to be presented at the 2021 conference in Anaheim, CA (October 2021).

**INFORMS Best Case Competition Judge** **2020 - 2021**
Assists in reviewing submissions and selecting winner. Competition seeks instructional cases focusing on real-world applications of operations research and operations management.

**Journal Reviewer/Referee**
*Operations Research, Management Science, Management Science and Operations Management, Production and Operations Management, OR Letters, SIAM Journal on Control and Optimization, SIAM Review, INFORMS Journal on Computing, INFORMS Journal on Optimization, IISE Transactions, Optimization Letters*

**Conference Program Committee/Reviewer**
- NIPS (2016)
- AAAI (2020)
- AISTATS (2020)

**National Science Foundation (NSF) Panel Reviewer**
- CMMI / OE Program (2017)

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|---|---|
| LANGUAGES | English (native), Spanish (conversational), Hindi (beginner) |
| COMPUTING | Julia, R, Python, C++, VBA, Gurobi/CPLEX, JuMP |
| CITIZENSHIP | USA |
| REFERENCES | Available upon request |