

# Devashish Thakar

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## RESEARCH INTERESTS

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**Primary:** Strategic sourcing for technology and innovation

**Supporting/Secondary:** Distributed Knowledge Work, Technology Management, Global Operations, Digital Economy, Entrepreneurship, and Business Analytics

## SKILLS

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Computing: Python (Primary), R (Secondary), SQL (Hive/Impala), STATA, MS Office, Latex

Quantitative: Reduced form econometric modelling (e.g., IV regression, Propensity Score Matching, etc.) and Unsupervised Machine Learning Approaches (e.g., TF-IDF Text Matching, LDA, Clustering) on secondary datasets & text documents

## EDUCATION

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**PhD, Darla Moore Business School, University of South Carolina, Columbia, SC, 2018-Present**

- Discipline: Operations and Supply Chain Management, planned graduation summer of 2023
- Committee Members: Sean Handley (Chair), Keith Skowronski (Co-Chair), Manpreet Hora (External)

**MS, University of California, Berkeley, CA, 2016-2017**

- Discipline: Industrial Engineering and Operations Research
- Focus: Optimization and Data Analytics

**B.Tech., Indian Institute of Technology, Indore, Madhya Pradesh, India, 2010-2014**

- Discipline: Mechanical Engineering

## PUBLISHED & FORTHCOMING ARTICLES (\* denotes equal contribution)

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Handley, S. \*, Skowronski, K. \*, & Thakar, D. \* (2022). The Single sourcing versus multi sourcing decision in information technology outsourcing. *Journal of Operations Management*. 1– 26

## WORKING PAPERS

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Thakar, D., Skowronski, K., Massimino, B., & Handley, S. (2022). The Effects of Experience and Developer Base Expansion on Digital Confidentiality.

- Preparing to submit to *Management Science*

Thakar, D., Handley, S., Skowronski, K., & Hora, M. (2022). Managing the tradeoff between Financial Risk and Value Appropriation in Knowledge Sourcing

- Dissertation essay 1
- Manuscript writing in progress

Thakar, D., Handley, S., Skowronski, K., & Hora, M. (2022). The Effects of Technological Overlap and Congestion on Knowledge Sourcing Performance.

- Dissertation essay 2
- Data analysis in progress

## PRESENTATIONS

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The Single sourcing versus multi sourcing decision in information technology outsourcing

- POMS 2020, Minneapolis, MN (Cancelled due to COVID)
- DSI 2019, New Orleans, LA
- POMS 2019, Washington DC

The Effects of Experience and Developer Base Expansion on Digital Confidentiality

- POMS 2022, Virtual
- POMS 2021, Virtual
- POMS 2020, Minneapolis, MN (Cancelled due to COVID)

Managing the tradeoff between Financial Risk and Value Appropriation in Knowledge Sourcing

- DSI 2022, Houston, TX (Planned)
- INFORMS 2022, Indianapolis, IN (Planned)
- POMS 2022, Virtual

## TEACHING AND INSTRUCTIONAL EXPERIENCE

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### Classroom Instructor

- MGSC 291- Statistics for Business and Economics, Undergraduate (Fall 2021): Conducted lectures (statistical analysis using R programming), created HWs, cases, and projects for a class of 29 business majors. **Instructor Rating: 4.1/5**

### Teaching Assistant

- Business Analytics Capstone, Master's program, for Beverly Wright (Spring 2022)
- Core Operations, Full time MBA program, for Keith Skowronski (Fall 2020)
- Business Process Management, Senior Undergraduate, for Sanjay Ahire (Fall 2019)

## DOCTORAL COURSEWORK

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### Methodological:

- ECON 831, Econometrics and Regression I, University of South Carolina
- ECON 832, Econometrics and Regression II, University of South Carolina
- MGMT 872, Advanced Statistics for Business I, University of South Carolina
- MGMT 892, Advanced Statistics for Business II, University of South Carolina
- ECON 815, Computational Methods for Economists, University of South Carolina
- ECON 850, Health Economics, University of South Carolina
- IEOR 250, Introduction to Production Planning and Logistics Models, University of California Berkeley
- IEOR 262, Mathematical Programming I, University of California Berkeley
- IEOR 263A, Applied Stochastic Processes I, University of California Berkeley
- IEOR C253 Supply Chain and Logistics Management, University of California Berkeley
- IEOR 221 Introduction to Financial Engineering, University of California Berkeley
- IEOR 242, Application in Data Analysis, University of California Berkeley

- IEOR 290, Introduction to Machine Learning, University of California Berkeley

#### **Seminars:**

- Marketing Strategy by Satish Jayachandran, University of South Carolina
- Marketing Models by Ram Janakiraman, University of South Carolina
- Theory driven Ops. And Supply Chain Management by Keith Skowronski, University of South Carolina
- Retail Operations Management by Mark Ferguson, University of South Carolina
- Applied Game Theoretic Models by Pelin Pekgun, University of South Carolina
- Pricing and Revenue Management by Necati Tereyagoglu, University of South Carolina

#### **INDUSTRY EXPERIENCE**

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##### **Analytics Associate, Axtria Inc, Thousand Oaks, CA, June 2017 to June 2018**

- **Technical:**
  - Implement big data analytics to provide disease-area strategy to a leading pharmaceutical client through patient survival analysis, and promotion response models
  - Estimate the impact of generic competition and loss of exclusivity for a top-of-the-line revenue generating drug through risk segmentation analysis
- **Managerial:**
  - Play a consultative role to client-side managers (commercial and medical affairs) by comprehending business problems, identifying and plugging data gaps
  - Coordinate with other vendors across large analytics projects to define overall direction

##### **Business Analyst, ZS Associates, Pune, India, April 2015 to June 2016**

- **Technical:**
  - Create and deploy surveys for opportunity assessment of small molecular drugs market to inform the pipeline and launch strategy for a biotech startup
  - Automate key client deliverables through excel-based macros
- **Managerial:**
  - Liaison with external agencies to create, deliver, and monitor physician and patient surveys
  - Mentor junior analysts on in-house tools and models

##### **Scientist, Defense Research and Development Organization, Pune, India, August 2014 to April 2015**

- Underwent training in systems engineering, six sigma, integrated defense manufacturing and planning.
- Worked with frontline missile squadrons and strategic forces command to identify and document technological gaps for enhanced operational readiness

#### **GRANTS AND AWARDS**

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- **Darla Moore School Research Grant, Fall 2020**
  - Awarded \$4,750 to support dissertation data collection efforts

#### **SERVICE**

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- Reviewer for Decision Sciences Institute Conference 2019 and 2020
- Reviewer for Academy of Management Conference 2020