

Michael J. Fry
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APPOINTMENTS

CURRENT POSITIONS

Professor, Department of Operations, Business Analytics & Information Systems, University of Cincinnati, 2014 - Current
Department Head, 2014 - Current
Lindner Research Fellow, 2013 – Current

PREVIOUS POSITIONS

Assistant Director, Center for Business Analytics, University of Cincinnati, 2013 – 2014

Associate Professor, Department of Operations, Business Analytics & Information Systems, University of Cincinnati, 2008 – 2014

Visiting Professor, Sauder School of Business, University of British Columbia, August 2011 – July 2012
(*on sabbatical from University of Cincinnati*)

Visiting Associate Professor, Samuel Curtis Johnson Graduate School of Management, Cornell University, September 2008 – September 2009 (*on leave from University of Cincinnati*), January 2010 – August 2011 (*maintained joint appointment to teach occasional MBA and executive education classes at Johnson*)

Assistant Professor, Department of Quantitative Analysis and Operations Management, University of Cincinnati, 2002 – 2008

EDUCATION

Ph.D., Industrial and Operations Engineering, University of Michigan, April 2002
Dissertation Title: *Cooperation and Collaboration in the Supply Chain*
Advisors: Tava Lennon Olsen, Olin School of Business, Washington University in St. Louis
Roman Kapuscinski, Ross School of Business, University of Michigan

M.S.E., Industrial and Operations Engineering, University of Michigan, April 1998
GPA: 8.0/8.0

B.S., Industrial Engineering, Texas A&M University, May 1996
GPA: 3.91/4.0
Summa cum Laude Graduate

RESEARCH

Published and Accepted Journal Articles

“Coordinating Production and Delivery Under a (z, Z)-type Vendor Managed Inventory Contract,” with R. Kapuscinski and T. Olsen, *Manufacturing & Service Operations Management*, 3:2, 151-173, 2001.¹

“Firefighter Staffing with Temporary Absences and Wastage,” with M. Magazine and U. Rao, *Operations Research*, 54:2, 353-365, 2006.

“Vertically Restrictive Pricing in Supply Chains with Price Dependent Demand,” with Y. Liu and A. Raturi, *Naval Research Logistics*, 53:6, 485-501, 2006.

“A Player Selection Heuristic for a Sports League Draft,” with A. Lundberg and J. Ohlmann, *Journal of Quantitative Analysis in Sports*, 3:2, 2007.

“Route Design for Lean Production Systems,” with J. Ohlmann and B. Thomas, *Transportation Science*, 42:3, 352-370, 2008.

“Teaching Problem Solving Techniques to MBA Students through Supply Chain Management,” *INFORMS Transactions on Education*, 8:2, 65-74, 2008.

“A Numerical Analysis of Supply Chain Performance under Split Decision Rights,” with B. Bichescu, *Omega*, 37:2, 358-379, 2008.

“Retail Price Markup Commitment in Decentralized Supply Chains,” with Y. Liu and A. Raturi, *European Journal of Operational Research*, 192:1, 277-292, 2009.

“Vendor-Managed Inventory and the Effect of Channel Power,” with B. Bichescu, *OR Spectrum*, 31:1, 195-228, 2009.

“Workload Balancing through Recurrent Subcontracting,” with B. Bichescu and G. Polak, *Production and Operations Management*, 18:1, 33-47, 2009.

“Transfreight Reduces Costs and Balances Workload at Georgetown Crossdock,” with C. Rosales and R. Radhakrishnan, *Interfaces*, 39:4, 316-328, 2009.

“Route Design for Delivery of Voting Machines in Hamilton County, Ohio,” with J. Ohlmann, *Interfaces*, 39:5, 443-459, 2009.²

“An Agent-Based Stochastic Ruler Approach for a Knapsack Problem with Competition-Induced Uncertainty,” with M. Gibson and J. Ohlmann, *Computers & Operations Research*, 37:3, 598-609, 2010.

“What are the Odds? A Structured Approach for Unstructured Problems,” with M. Bailey, *INFORMS Transactions on Education*, 10:2, 45-52, 2010.

“Searching for Momentum in the National Football League,” with F. Alan Shukairy, *Journal of Quantitative Analysis in Sports*, 8:1, 2012.

¹ Selected as Finalist for the MSOM Society Best Student Paper Competition.

² Selected as Finalist for Daniel H. Wagner Prize for Excellence in Operations Research Practice.

“Multi-period Modeling of Two-way Price Commitment Under Price-dependent Demand,” with Y. Liu, F. Qin and A. Raturi, *European Journal of Operational Research*, 221:3, 546-556, 2012.

“A Model to Create an Efficient and Equitable Admission Policy for Patients Arriving to the Cardiothoracic Intensive Care Unit,” with M. Yang, J. Raihelkar, C. Chin, A. Anyanwu, J. Brand and C. Scurlock, *Critical Care Medicine*³, 41:2, 2013.⁴

“The Call for Equity: Simulation-Optimization Models to Minimize the Range of Waiting Times,” with M. Yang, T. Allen and D. Kelton, *IIE Transactions*, 45:7, 1-15, 2013.

“Improving Voting Systems through Service-Operations Management,” with M. Yang, T. Allen and D. Kelton, *Production and Operations Management*, 23:7, 1083-1097, 2014.⁵

“The ICU Will See You Now: Efficient-Equitable Admission Policies for a Surgical ICU with Batch Arrivals,” with M. Yang and C. Scurlock, To Appear, *IIE Transactions*.

“Efficiency and Equity Tradeoffs in Voting Machine Allocation Problems,” with X. Wang and M. Yang, To Appear, *Journal of the Operational Research Society*.

Books (Teaching)

Quantitative Methods for Business, 12th Edition, Anderson, Sweeney, Williams, Camm, Cochran, Fry and Ohlmann, Cengage, 2012.

Essentials of Business Analytics, 1st Edition, Camm, Cochran, Fry, Ohlmann, Anderson, Sweeney and Williams, Cengage, 2014.

An Introduction to Management Science: Quantitative Approaches to Decision Making, 14th Edition, Anderson, Sweeney, Williams, Camm, Cochran, Fry and Ohlmann, Cengage, 2015.

Books (Research)

Decision Making in Service Industries: A Practical Approach, Edited by: Faulin, Juan, Grasman and Fry, Taylor and Francis, 2012.

Refereed Book Chapters (Research)

“Vendor Managed Inventory in a Production Constrained Setting,” with R. Kapuscinski and T. Olsen, Book Chapter in *New Directions in Supply-Chain Management: Technology, Strategy, and Implementation*, The American Management Association (AMACOM), edited by Ram Ganeshan and Tonya Boone, 325-351, 2001.

“Vendor-Managed Inventory and the Effect of Channel Power,” with B. Bichescu, in *Supply Chain Planning: Quantitative Decision Support and Advanced Planning Solutions*, Springer, edited by H.-O. Günther and H. Meyr, 2009⁶.

³ A leading journal in the field of critical-care medicine with impact factor > 6.0.

⁴ This article was chosen as a feature article for this issue. An editorial by Colin R. Cooke, MD, University of Michigan, titled “Improving the Efficiency of ICU Admission Decisions” also appears in this issue of *Critical Care Medicine*. The editorial highlights the importance of our work on ICU admission decisions in practice.

⁵ Awarded 2nd Prize, INFORMS SPPSN Best Paper Competition.

⁶ Reprint of *OR Spectrum* article.

“Vendor-Managed Inventory,” in *Encyclopedia of Operations Research and Management Science*, Wiley, edited by James J. Cochran, 2011.

“Logistics and Retail Pharmacies: Providing Cost-Effective Home Delivery of Prescriptions,” with Y.-C. Huang and A. Lin, in *Decision Making in Service Industries: A Practical Approach*, Taylor and Francis, edited by Faulin, Juan, Grasman and Fry, 2012.

“Using OR to Overcome Challenges in Implementing New Voting Technologies,” with M. Yang, in *Encyclopedia of Operations Research and Management Science*, Wiley, edited by James J. Cochran, 2013.

Refereed Conference Proceedings

“Are All Queues Created Equal?” with M. Yang and D. Kelton, *Winter Simulation Conference 2009 Proceedings*, Austin, TX, 2009.

“Workload Balancing Through Subcontracting: Applications of Fourier Analysis and Goal Programming,” with B. Bichescu and G. Polak, *Proceedings of the 2006 POMS Conference*, Boston, MA, 2006.

“The Effect of Price Commitment Timing in Decentralized Supply Chains,” with Y. Liu and A. Raturi, *Proceedings of the 2005 MSOM Conference*, Evanston, IL, 2005.

Submitted and Working Papers

“Efficiency and Equity in Healthcare: An Analysis of Resource Allocation Decisions in a Long-Term Home Care Setting,” Under 1st Review, *IIE Transactions on Healthcare*, with R. Zhang and H. Krishnan.

“The Multi-Mode Resource Constrained Cross-Dock Scheduling Problem,” Under 1st Review, *Omega*, with D. Hermel, N. Adler and H. Hasheminia.

“On the Supply Chain Performance Anomaly: Equity and Cost Information Asymmetry,” Under 1st Review, *Production and Operations Management*, with F. Qin, F. Mai, and A. Raturi.

“Consumer Trade-in Program Design and the Role of Retailers,” with F. Qin and U. Rao.

“Hierarchical Logistics Planning with Inventory Considerations,” with J. Ohlmann and R. Meyers.

“Operations Analysis and Resource Allocation in a TeleICU Setting,” with M. Yang and C. Scurlock.

Other Published Writings

“In Action: Voting Machine Routing in Hamilton County, Ohio,” with J. Ohlmann, *Transportation Science and Logistics Newsletter*, Summer 2007.

“Introduction to the Special Issue on Analytics in Sports, Part I: General Sports Applications,” with J. Ohlmann, *Interfaces*, 42:2, 105-108, 2012.

“Introduction to the Special Issue on Analytics in Sports, Part II: Sports Scheduling Applications,” with J. Ohlmann, *Interfaces*, 42:3, 229-231, 2012.

“Business Analytics Transforming Supply Chain Management,” *Cincinnati Business Courier*, February 10, 2013.

Mentions in Popular Press and Other Media

WCPO.com, “Founders of Hoist Beverage Reveal What it takes to Get Shelf Space at Kroger Co.” October 3, 2014. Quoted in article about importance of beverage company gaining shelf space with major retailer and basic principles of shelf-space allocation at retailers.

Industrial Engineer, “Are All Voters Allowed Equal Access Given Ballot Length Diversity?” July 2013, Vol. 35, No. 7. Executive summary highlighting the contributions of our research article in IIE Transactions on models for voting machine allocations. Two articles from each issue of IIE Transactions are chosen to be featured articles.

San Jose Mercury News, “Both World Series Teams Hope to Seize the Momentum – If There is Such a Thing,” October 24, 2012. Article by Bruce Newman discussing momentum in sports. Discusses research from work published in *Journal of Quantitative Analysis in Sports* examining evidence for the existence of ‘momentum’ in the NFL as well as overall evidence for momentum in sports.

The Science of Better Podcast, “The Sports Analytic Movement,” July 6, 2012. INFORMS Science of Better Podcast highlighting special issue of *Interfaces* on sports analytics.

Science Daily, “Research Examines Momentum in the NFL,” March 15, 2012. Press release highlighting article published in *Journal of Quantitative Analysis in Sports* with F. Alan Shukairy examining evidence for the existence of ‘momentum’ in the NFL.

Fox News, “NCAA Proposes Math-Based Bracket Tweak to Boost Attendance, Lower Costs,” March 10, 2012. Provide quote assessing work done by Melouk and Keskin on NCAA tournament pod assignments to reduce costs and increase attendance.

Inside Science News Service, “New Film Adapts Baseball Strategy Book for The Big Screen,” September 24, 2011. Provided quotes related to sports analytics aspect of *Moneyball* which was just released as a major motion picture.

Soapbox Cincinnati, “Startup News, Profile: Mike Fry of DraftOpt,” September 13, 2011. Article discussing my startup company experience with Optilytics LLC, developers of DraftOpt software.

Cincinnati Enquirer, “Innovation Winners Announced,” Article by Laura Baverman highlighting the winners of the 2011 Cincinnati Innovation awards which included our DraftOpt software.

The Gazette, “Fantasy Football Picks Made Simple,” August 17, 2011. Article describing development of DraftOpt software for fantasy-sports draft optimization by Erica Pennington.

The Daily Iowan, “UI Prof Sees Fantasy Football as a Science,” June 23, 2011. Article focusing on collaborator Jeff Ohlmann and our company’s (Optilytics LLC) development of an iTunes App for fantasy sports drafts.

Milwaukee Journal Sentinel, “In the would-have-been-nice dept.: A voting machine method that reduces waiting,” November 2, 2010. Online entry by Mark Johnson discussing the benefits offered by voting machine allocation methods developed at University of Cincinnati.

RedOrbit.com, “New Voting-Machine-Allocation Method Could Reduce Voters’ Wait Time by 36 Percent,” November 1, 2010. Describes work done with PhD student, Muer Yang, on optimal allocation of voting machines.

The Wall Street Journal, “Snap Judgments in the NFL,” April 24, 2009. Provided full quantitative analysis for feature article by Reed Albergotti presenting an analysis of NFL teams’ draft success using snap data collected by the NFL.

The Sacramento Bee, “A Bee Exclusive: City Looks at Overtime Costs,” December 21, 2008. Article by Phillip Reese and Ryan Lillis focusing on high overtime costs for city of Sacramento, CA. Quote provided regarding high cost of firefighter overtimes.

Inside Science News Service, “There’s No Queue in E-L-E-C-T-I-O-N: The Logistics of an Election,” October 31, 2008. Article by Chris Gorski explaining the application of operations research tools and techniques to voting operations. Article covers research on delivering optical scan voting machines to polls in Hamilton County, OH.

LiveScience, “The Science of Fantasy Football,” August 28, 2008. Article by Chris Gorski describes model for sports drafts and discusses general state of research related to fantasy sports.

WVXU Cincinnati Edition Radio Program, “Fantasy Football Quantitative Analysis,” September 9, 2007, Interview by Katie Orr discussing research on models for football drafts.

UCResearch Magazine, “Numbers,” Summer 2007. Feature article on QAOM Department research successes. Story mentions research projects on voting machine distribution and modeling team interactions in basketball.

Science Daily, “Fry Informs Fantasy Football Fans,” August 23, 2007. Story describes work done on modeling sports drafts and applications to fantasy football.

Fox19 TV, “UC Prof Analyzes Fantasy Football,” August 22, 2007. Interview with Zach Wells, Fox19 sports reporter, discussing application of draft models to fantasy football.

Iowa Gazette, “Draft Formula Based on Value,” August 12, 2007. Article by John Riehl explaining draft model and applications to a fantasy football draft.

USA Today Sports Weekly, “Trust the Numbers,” August 2, 2007. Column by Matt Pitzer discussing applications of sports draft model to fantasy football.

BusinessWeek, “That’s Some Dream Team,” July 31, 2007. Article in *UpFront* section that discusses work done on sports draft models. (Not directly credited in article.)

Cincinnati Post, “He Puts Figures to Work,” June 11, 2005. Article by Lonnie Wheeler discussing MSQA project completed by Paul Bessire.

Cincinnati Business Courier, “Software Route Eased Road for Transfreight,” May 17, 2004. Article by Lucy May explains contributions made by MSQA project completed by Rajesh Radhakrishnan.

Consulting Activities

Dell Computer, Starbucks Coffee Company, Cincinnati Fire Department, United States Environmental Protection Agency, Copeland Corporation, Boeing, Procter & Gamble, Cardinal Health, Transfreight Logistics, LeanCor Logistics, Hamilton County Board of Elections, State of Ohio Election Commission, Cincinnati Bengals, Coleman Company, Cincinnati Zoo & Botanical Gardens

Grants/Contracts

“Simulation-Optimization Models for Resource Allocation under Uncertainty,” University of Cincinnati College of Business Summer Research Grant, Summer 2010, \$7.5K

Cornell University Summer Research Support, Summer 2009, \$13K.

“Facility Location and Inventory Analysis of Starbucks Coffee Company,” LeanCor and Starbucks Coffee Company, project for Center for Productivity Improvement, \$17.5K, Fall 2007, with J. Camm.

“Voting Machine Allocation Strategies to Promote Efficiency and Equity,” College of Business Summer Research Proposal Support, Summer 2007, \$10K.

“Developing Business Case Studies for RFID Implementations,” funded by Air Force Research Laboratories, United States Air Force, \$46K, with M. Magazine and U. Rao.

“Vehicle Routing in a Lean Manufacturing Supply Chain,” College of Business Summer Research Proposal Support, Summer 2006, \$10K.

“Route Designs for Delivery and Pickup of Voting Booths in Hamilton County,” Weil-Thoman Moving & Storage and Hamilton County Board of Elections, project for Center for Productivity Improvement, \$12K, with J. Ohlmann.

“Development of an Interactive Inventory Tool,” Copeland Corporation, project for Center for Productivity Improvement, \$20K.

“Incorporating Customer Risk Perceptions from Extreme Events into Sequential Decision Models,” College of Business Summer Research Proposal Support, Summer 2005, \$10K.

Other

Co-founder and co-owner, Optilytics, LLC
Sports analytics and software development firm.

Co-developer, DraftOpt Application
iPhone/iTouch application for assisting in fantasy sports drafts. Developed from published research.
Winner of 2012 CincyTech award from Cincinnati Innovates venture-funding competition.

Board of Advisors Member 2012 - Current: PredictionMachine.com
One of two outside board of advisors members for the company PredictionMachine.com which provides online sports simulation and forecasting.

Student Advising

Doctor of Philosophy

Yong Liu, Committee Chair, Completed December 2005

Dissertation Title: "Supply Chain Management through Price Commitment Policies"

Starting Position: Senior Risk Analyst, HSBC Bank

Bogdan Bichescu, Committee Chair, Completed July 2006

Dissertation Title: "Performance Analysis of Decentralized Supply Chains: Considerations of Channel Power and Subcontracting"

Starting Position: Assistant Professor, Department of Statistics, Operations and Management Science, University of Tennessee

Jun Liu (Department of Mechanical and Industrial Engineering, University of Toronto), Thesis External Reviewer, Completed November 2008

Dissertation Title: "A Stochastic Inventory Model with Price Quotation"

Starting Position: Analyst, Ontario Power Generation, Toronto, Canada

Claudia Rosales, Committee Member, Completed February 2011

Dissertation Title: "Technology Enabled Hybrid Inventory Control Policies in Hospitals"

Starting Position: Assistant Professor, Eli Broad College of Business, Michigan State University

Muer Yang, Committee Co-Chair (with D. Kelton), Completed August 2011

Dissertation Title: "Finite Resource Allocation Policies"

Starting Position: Assistant Professor, Department of Operations and Supply Chain Management, Opus College of Business, University of St. Thomas

Dror Hermel (Sauder School of Business, University of British Columbia), Committee Member, Completed September 2013

Dissertation Title: "Three Essays in Operations Management"

Starting Position: Assistant Professor, Department of Industrial Engineering and Management, Ariel University, Israel

Fei Qin, Committee Co-Chair (with U. Rao), Completed June 2014

Topic: "Supply Chain Strategies in the Presence of Supply Capacity Uncertainty, Consumer Trade-in Services or Human Behavioral Biases"

Starting Position: Post-doctoral Research Fellow, Desautels Faculty of Management, McGill University

Saravanan Kuppusamy, Committee Member, In-Progress, Completed August 2014

Topic: "Electric Vehicle Adoption for Taxi Cab Companies"

Starting Position: Assistant Professor, Department of Management, School of Business & Engineering, Quinnipiac University

Feng Mai, Committee Co-Chair (with R. Chiang), Expected Completion Spring 2015

Master of Science in Quantitative Analysis/Business Analytics Students Supervised

Master Theses

Neil Eisner, Committee Chair, Completed October 2003

"A Daily Replenishment Production Scheduling and Inventory Minimization Simulation"

Samir Kulkarni, Committee Member, Completed February 2004
“An Exploration of the Resource Constrained Scheduling Capabilities of Microsoft Project”

Rajesh Radhakrishnan, Committee Member, Completed February 2004
“Development of an Interactive Route Builder for a Third-Party Logistics Provider”

Neelima Reddy, Committee Member, Completed June 2005
“Route Sharing Tool for Optimization of Resource Allocation in Logistics Planning”

Paul Bessire, Committee Chair, Completed June 2005
“Measuring Individual and Team Effectiveness in the NBA through Multivariate Regression”

Bogdan Bichescu, Committee Chair, Completed August 2005
“Channel Power: Implication on Supply-Chain Performance”

Ying Huang, Committee Member, Completed November 2005
“Development of RFID Technology Measurement Scales”

Robert Carter, Committee Member, Completed May 2006
“Using a Dynamic Discrete Choice Model to Estimate Tuition Elasticity”

Rachel LaRosa, Committee Member, Completed August 2006
“Optimal Sequencing in a Multiple Machine Job Shop”

Andrew Lundberg, Committee Chair, Completed August 2006
Chosen as Outstanding MSQA Student for 2006-07
“Optimal Draft Strategies using Dynamic Programming”

Jonathan Healey, Committee Member, Completed November 2006
“A New Model for the Cost- and Priority-Based Carrier Selection Problem”

Claudia Rosales, Committee Chair, Completed September 2007
“Optimal Inbound Trailer Allocation at a Crossdock Optimizing Operations and Balancing Workload”

Alan Shukairy, Committee Chair, Completed November 2008
“Decision Making in the NFL on 4th Down”

Larisa Vaysman, Committee Chair, Completed June 2009
“Quantifying the Impact of Draft Round on Draft Pick Quality Using Non-Parametric Median Comparison”

Michael Platt, Committee Member, Completed June 2009
“Distribution Network Model Using Mixed Integer Programming and a Combination of Distribution Centers and Cross-Dock Terminals”

Yi-Chin Cher Huang, Committee Chair, Completed April 2010
“Route Designs for a Pharmacy Delivery Service”

Michael Bernstein, Committee Member, Completed August 2010
“A Transportation Model Approach to Empty Rail Car Scheduling”

Kevin Roa, Committee Co-Chair, Completed April 2013
“Scheduling NFL Games to Maximize Viewers”

Zhen Guo, Committee Member, Completed April 2013
“Decision Making in Random Yield Supply Chains”

Ryan Prasser, Committee Chair, Completed August 2013
“A Regression Model Relating the Pass/Run Ratio to Score Differential and Elapsed Time in the NFL”

Weijing Song, Committee Chair, Completed December 2013
“Methods for Solving Vehicle Routing Problems in a Supply Chain”

Matt Schmucki, Committee Member, Completed March 2014
“Visualizing Distribution Optimization”

Joshua Phipps, Committee Chair, Completed April 2014
“Exploratory Data Analysis for United Way”

Abhimanyu Kumbara, Committee Member, Completed April 2014
“Hospital Performance Rating: A Super-Efficiency Data Envelopment Analysis Model”

Subramanian Narayanaswamy, Committee Member, Completed June 2014
“A Descriptive and Predictive Modeling Approach to Understand the Success Factors of STEM and Non-STEM Students at University of Cincinnati”

Ashmita Bora, Committee Member, Completed June 2014
“Analyzing Student Behavior to Understand their Rate of Success in STEM Programs”

Vignesh Rajendran, Committee Chair, Completed July 2014
“Recursive Clustering on Non-profit Contributions”

Lingchong Mai, Committee Member, Completed July 2014
“Supply Chain Modeling and Analysis”

Ole Jacobsen, Committee Chair, Completed July 2014
“NFL Decision Making: Evaluating Game Situations with a Markov Chain”

Chris Fant, Committee Member, Completed July 2014
“American Athletic Conference Football Division Alignment: Minimizing the Traveling Miles between Schools and Maintaining Balance between the Divisions”

Brad Barker, Committee Member, Expected Completion Fall 2014

Case Study Class Project Write-ups⁷

Beth Dalton, 1st Reader, Completed April 2014
“Clustering Analysis of NFL Players based on Playing Time, Injury Risk and Momentum”

Mayank Mishra, 1st Reader, Completed April 2014
“Claims Litigation Prediction”

⁷ New option for students to complete MS degree offered starting Spring 2014.

Swapnil Shirodkar, 1st Reader, Completed June 2014

“Predicting the Renewal Behavior of Home Insurance Policy Holders for American Modern Insurance Group”

Abarna Krishnan, 1st Reader, Completed June 2014

“Player Scouting for Cincinnati Bengals”

Harshit Mishra, 2nd Reader, Completed June 2014

“Market Segmentation for American Modern Insurance Group”

Praveen Girija Kumari Sasidharan Nair, 1st Reader, Completed July 2014

“Predicting the Renewal Behavior of Home Insurance Policy Holders”

Prashanth Sankisa, 2nd Reader, Completed July 2014

“Defining Ideal Customer Profiles Using Chi-Squared Automatic Interaction Detector”

Fnu Sakshi, 1st Reader, Completed July 2014

“Identifying Predictors of Theft in UC and Cincinnati”

Raghu Vamsi Putti, 1st Reader, Expected Completion July 2014

“Claims Litigation Prediction”

Presentations

Invited University Research Seminars: Indiana University (Kelley School), University of British Columbia, Bowling Green State University, Purdue University (Krannert School), Cornell University (The Johnson School and ORIE Department), University of Iowa, OR-Ohio, University of Alabama, University of Tennessee, University of Pittsburgh/Carnegie Mellon University, Case Western Reserve University, Audencia University (France), University of Cincinnati, University of Osijek (Croatia)

“Providing Analytics Skills to Give Students a Competitive Edge in Business,” Invited Speaker, Decision Sciences Institute Annual Meeting, Tampa, FL, November 2014.

“Teaching Analytics with Excel and Analytic Solver Platform,” Invited Speaker, Croatian Operations Research Conference, University of Osijek, Croatia, September 2014.

“Introduction to Business Analytics,” Invited Training Sessions, United Way of Greater Cincinnati, Cincinnati, OH, July 2013.

“Designing a Complete Lean Logistics Management System,” Invited Presentation, POMS Annual Conference, Denver, CO, May 2013.

“Are All Queues Created Equal? An Analysis of Election Operations under New Voting Technologies,” Invited Presentation, Kelley School of Business, Indiana University, March 2013.

“Are All Queues Created Equal? An Analysis of Election Operations under New Voting Technologies,” Invited Presentation for the Ralph St. John Seminar at Bowling Green State University, October 2012.

“Teaching OR through SpORts Analytics,” Invited Joint Presentation with J. Ohlmann, INFORMS Teaching Colloquium, 2011.

“The ICU Will See You Now: Efficient-Equitable Admission Policies to a Hospital ICU with Batch Arrivals,” Sauder School of Business, University of British Columbia, Invited Seminar, September 2011.

“Supply Chain Contracting: Making a Bigger Pi(e),” OR-Ohio Invited Tutorial, Cincinnati, OH, April 2011.

“Voting Machine Allocation to Achieve Equity,” POMS Annual Conference, Vancouver, BC, May 2010.

“Voting Machine Allocation Models,” Krannert School of Management, Purdue University, Invited Seminar, April 2010.

“Searching for Momentum in the NFL,” INFORMS Conference, San Diego, CA, October 2009.

“Election Day 2008: Applying Operations Research to Voting Systems,” Cornell University, School of Operations Research and Information Engineering Invited Seminar, November 2008.

“Determining Optimal Firefighter Staffing Levels,” Cornell University, The Johnson School, Invited Seminar, October 2008.

“Route Design for Delivery of Voting Machines in Hamilton County, Ohio,” Wagner Prize Finalist Presentation, INFORMS Conference, Washington, DC, October 2008 (with Jeff Ohlmann).

“Earning Tenure at a Business School,” Doctoral Colloquium, INFORMS Conference, Washington, DC, October 2008.

“Teaching at a Business School,” Doctoral Colloquium, INFORMS Conference, Washington, DC, October 2008.

“Route Designs for Lean Supply Chains,” University of Alabama, Department of Information Systems, Statistics and Management Science, Invited Seminar, April 2008.

“Route Designs for Lean Supply Chains,” University of Tennessee, Department of Statistics, Operations and Management Science, Invited Seminar, February 2008.

“Route Designs for Lean Supply Chains,” Cincinnati/Dayton INFORMS Meeting Invited Research Seminar (in recognition of being named 2007 Outstanding Young Member), Dayton, OH, December 2007

“Vendor-Managed Inventory and Other Collaborative Agreements,” Audencia University Executive Education Seminar Series, Nantes, France, November 2007.

“Route Designs for Lean Supply Chains,” Audencia University Invited Research Seminar, Nantes, France, November 2007

“Defining Research Expectations for New Faculty Members,” POMS Doctoral Colloquium Invited Speaker, POMS Conference, Dallas, TX, May 2007.

“Workload Balancing Through Subcontracting,” POMS Conference, Dallas, TX, May 2007.

“Firefighter Staffing with Overtime, Attrition, and Random Absenteeism,” University of Iowa Invited Research Seminar, March 2007.

“Vehicle Routing for Lean Supply Chains,” Supply Chain and Logistics Engineering Conference, University of Florida, February 2007.

“A Player Selection Heuristic for a Sports League Draft,” INFORMS 2006 Conference, Pittsburgh, PA, October 2006.

“Route Design for Delivery of Voter Polling Booths in Hamilton County, OH” INFORMS 2006 Conference, Pittsburgh, PA, October 2006.

“Decision Making Subject to Risk Perceptions from Extreme Events,” INFORMS San Francisco, November 2005.

“Ski Industry Pricing: Daily Tickets Versus Season Passes,” INFORMS San Francisco Interactive Session, November 2005.

Participated in Environmental Protection Agency (EPA) E-Waste Workshop to Develop Procedures for Cost-Effective and Environmentally Sound Procedures for Recycling CRT Glass, Washington DC, July 2005.

“The Effect of Price Commitment Timing in Decentralized Supply Chains,” MSOM Conference, June 2005.

“Competitive Season Pass Pricing in the Ski Industry”, INFORMS Denver Conference, October 2004.

“Vertically Restrictive Pricing with Price-Dependent Demand,” INFORMS-CORS International Conference, Banff, Canada, May 2004.

“Firefighter Staffing with Overtime, Attrition, and Random Absenteeism,” Applied Decision Modeling Seminar Series, Carnegie Mellon University/University of Pittsburgh, April 2004.

“Firefighter Staffing with Overtime, Attrition, and Random Absenteeism,” QAOM Research Seminar Series, University of Cincinnati, May 2003.

“Firefighter Staffing with Overtime, Attrition, and Random Absenteeism,” POMS 2003 Conference, Savannah, GA, April 2003.

“Cooperating on Demand Forecasts and Inventory Replenishment with Multiple Retailers and Outsourcing,” INFORMS San Jose Conference, November 2002.

“Collaborative Supply Chain Agreements: Optimal Policies and Performance,” Weatherhead School of Management, Case Western Reserve University, September 2002.

“Adjusting Demand Forecasts with Multiple Retailers under Vendor-Managed Inventory,” INFORMS International Conference, Maui, Hawaii, June 2001.

“Cooperation and Collaboration in the Supply Chain,” INFORMS San Antonio Conference, November 2000.

“Supply Chain Performance of Vendor-Managed Inventory,” INFORMS Salt Lake City Conference, May 2000.

“Design and Effectiveness of Vendor-Managed Inventory Agreements,” Multi-Echelon Conference, Purdue University, June 1999.

“Vendor-Managed Inventory Systems: Benefits and Contract Mechanisms,” INFORMS Cincinnati Conference, May 1999.

“The State of Graduate Education from a Ph.D. Student Perspective,” Invited Panelist, INFORMS Cincinnati Conference, May 1999.

“The True Costs of Downtime in Flexible and Dedicated Manufacturing Environments,” Invited Speaker, University of Michigan Management Briefing Seminars, Financial Management Section, Traverse City, MI, August 1997.

TEACHING

Sauder School of Business, University of British Columbia: Spent 2011-2012 on sabbatical to UBC. Taught BAMS 500, a class on applications of operations research and management science, and BABS 502, a class on forecasting. Students for both classes consisted of Master of Management in Operations Research and MBA students.

The Johnson School, Cornell University: Twice taught residency Executive-MBA class on supply chain management. Also taught in the dual degree Cornell-Queens Executive-MBA program that is delivered via synchronous video technology. Taught two full-time MBA sections of Logistics and Manufacturing Strategy and one section of MBA core class on operations management in the Accelerated-MBA program.

College of Business, University of Cincinnati: Taught MBA Core Operations Management class (OM 711), MBA Elective in Supply Chain Management (OM 888/OM 783), Undergraduate elective classes in Supply Chain Management (OM 481/PRSM 410), Production Planning and Scheduling (OM 476). Also taught Ph.D. Seminar Courses in both Operations Management (OM 895) and Quantitative Analysis (QA 895).

Awarded Daniel J. Westerbeck Graduate Teaching Award in 2006. Awarded Michael L. Dean Excellence in Graduate Teaching Award in 2013. Nominated three times for Michael L. Dean Excellence in Graduate Teaching Award (2002, 2007, 2013); nominated twice for Michael L. Dean Excellence in Undergraduate Teaching Award (2005, 2006).

Department of Industrial and Operations Engineering, University of Michigan: Taught Production Planning and Inventory Control (IOE 441) as a PhD student.

Undergraduate Course Summary

Quarter/Semester	Course ⁸	Class Size	Avg. GPA Assigned	Instructor Rating (Mean)
Lindner College of Business, University of Cincinnati				
Fall 2014	OM 4081			
Spring 2014	OM 4081	62	2.87	7.2/8.0
Fall 2013	OM 4081	58	2.96	7.7/8.0
Spring 2013	OM 4081	59	3.14	6.6/8.0
Fall 2012	OM 4081	51	2.47	7.2/8.0
Fall 2010	OM 481	61	2.85	N/A ⁹
	QA 360H ¹⁰	21	3.50	7.3/8.0

⁸ OM 481 and PRSM 410 became cross-listed courses in Fall 2002 and are taught concurrently; OM4081 is semester version of OM481 which was taught on 10-week quarters.

⁹ Due to error in online course evaluation system, no ratings were collected for this class.

Fall 2009	OM 481	51	2.74	6.8/8.0 ¹¹
Winter 2008	OM 481/PRSM 410	38	2.73	7.11/8.0
Fall 2007	OM 481/PRSM 410	28	2.69	7.69/8.0
Winter 2007	OM 481/PRSM 410	32	2.54	7.01/8.0
Winter 2006	OM 481/PRSM 410	28	2.97	7.18/8.0
Fall 2005	OM 481/PRSM 410	36	2.63	7.53/8.0
Winter 2005	OM 481/PRSM 410	23	2.54	7.26/8.0
Fall 2004	OM 476	35	2.74	7.59/8.0
	OM 481/PRSM 410	42	2.71	7.58/8.0
Winter 2004	OM 481/PRSM 410	40	2.37	4.89/5.0
Fall 2003	OM 481/PRSM 410	29	2.35	4.62/5.0
Winter 2003	OM 481/PRSM 410	38	2.46	4.59/5.0
Fall 2002	OM 481/PRSM 410	25	2.74	4.45/5.0
Spring 2002	OM 481	12	2.53	4.90/5.0
Winter 2002	OM 481	32	3.16	4.88/5.0
College of Engineering, University of Michigan				
Fall 2001	IOE 441	~100		4.66/5.0
Fall 2000	IOE 441	~100		4.45/5.0

Graduate Course Summary

Lindner College of Business, University of Cincinnati				
Summer 2014	OM 7083	12	3.72	7.8/8.0
Spring 2014	BANA 6095	32	3.76	
	OM 7083	29	3.64	7.5/8.0
Summer 2013	OM 7083	37	3.54	7.5/8.0
Spring 2013	OM 7083	26	3.54	7.4/8.0
Fall 2012	OM 7011	54	3.27	7.4/8.0
	OM 7083	4	3.87	*12
Spring 2011	OM 783	17	3.28	7.2/8.0
	OM 711	63	3.70	7.4/8.0
Summer 2010	OM 783	19	3.65	7.9/8.0
Spring 2010	OM 711	58	3.55	7.70/8.0
Spring 2010	OM 895 ⁷	5	3.75	8.00/8.0
Summer 2008	OM 711	39	3.54	7.10/8.0
Winter 2008	OM 711	31	3.34	7.41/8.0
Fall 2007	OM 783	14	3.50	7.83/8.0
Winter 2007	OM 711	19	3.48	7.61/8.0
Fall 2006	QA 895	4	3.63	7.75/8.0
	OM 783	7	3.62	7.28/8.0
Winter 2006	OM 895 ¹³	5	3.75	8.00/8.0
Fall 2005	OM 783-888 ¹⁴	15	3.40	7.00/8.0
	OM 783	13	3.64	7.38/8.0
Winter 2004	OM 783-888 ⁸	12	3.78	4.09/5.0
	OM 783	13	3.71	4.69/5.0
Fall 2003	OM 888	7	3.67	5.00/5.0

¹⁰ University-wide honors course, "Quantitative Analysis in Sports." Team-taught with Professor Mike Magazine.

¹¹ Extremely low response rate due to introduction of online course evaluations.

¹² No online evaluations returned.

¹³ Ph.D. Seminar, "Advanced Inventory Models for Supply Chains"

¹⁴ Taught at Wright-Patterson Air Force Base

Summer 2003	OM 895 ¹⁵	11	Pass/Fail	*16
Winter 2003	OM 888	28	3.42	4.77/5.0
Fall 2002	OM 888	16	3.17	4.92/5.0
Summer 2002	OM 895 ¹⁷	9	Pass/Fail	*9
Winter 2002	OM 888	34	3.73	4.84/5.0
Quarter/Semester	Course	Class Size	Avg. GPA Assigned	Instructor Rating (Mean)
Sauder School of Business, University of British Columbia				
Fall 2011	BAMS 500 ¹⁸	28	80/100	N/A ¹⁹
Fall 2011	BABS 502 ²⁰	20	84/100	4.4/5.0
The Johnson School, Cornell University				
Summer 2011	NCC 5080 ²¹	44	3.52	
Winter 2010	NBAE 6590 ²²	61	3.56	4.57/5.0
Spring 2009	NBA 6410	37	3.63	4.67/5.0
	NBA 6410	22	3.15	4.79/5.0
Winter 2009	NBAE 6590 ²³	64	3.52	4.64/5.0
Fall 2008	CQ-NBAE 6590 ²⁴	91	3.6	4.41/5.0

LEADERSHIP AND SERVICE

Departmental, College and University

UC Computing and IT Strategy Task Force, 2013-2014

College of Business Strategy Committee, 2012-2013

Hot Topics in Supply Chain Management Conference Co-organizer, 2004-2013

APICS Student Chapter Faculty Advisor, 2006-2010, 2012-2013

Program Coordinator, Certificate in Operations Excellence, 2010-2011

QAOM Seminar Series Coordinator, 2010-2011

MBA Admissions Committee Member, 2007-2009, 2010-2011

MBA Case Competition Judge, 2010, 2012, 2013

College Awards Committee Member, 2007

Undergraduate Programs Committee Member, 2003-2004

Department Head Search Committee Member, 2003

Departmental Retention, Promotion and Tenure Committee Member, Winter 2002, Fall 2002, Winter 2003, Fall 2004, Winter 2005, Fall 2010, Spring 2013

¹⁵ Ph.D. Seminar, "Selected Research Papers in Operations Management"

¹⁶ No official course evaluations collected for OM 895 in Summer 2002 and 2003, as these were offered on volunteer basis.

¹⁷ Ph.D. Seminar, "QAOM Modeling Workshop"

¹⁸ Best Practices in Management Science: case-study course on applying OR/OM to practice taught to masters students in operations research and some advanced MBAs.

¹⁹ No course evaluations collected due to error in providing evaluations to visiting professors.

²⁰ Forecasting for Managers: course on forecasting method taught to masters students in operations research and some advanced MBAs.

²¹ Core operations class for Accelerated MBA students.

²² Executive MBA residency session course taught over seven consecutive days as part of Cornell's EMBA program.

²³ Executive MBA residency session course taught over seven consecutive days as part of Cornell's EMBA program.

²⁴ Executive MBA course taught as distance-learning to students in over a dozen locations as part of Cornell's joint EMBA program with Queen's College. Team taught with Joe Thomas, Dean of The Johnson School.

Regional and National

Associate Editor, OMEGA, 2014-Current
Editorial Board Member, *Journal of Quantitative Analysis in Sports*, 2005-Current
POMS Supply Chain College Best Student Paper Competition Chair, 2013
INFORMS SPPSN Best Paper Committee Member, 2012-2013
INFORMS Sections/Societies Committee Member, 2011-2013
INFORMS Impact Prize Committee Member 2011-2013
POMS Supply Chain College Best Student Paper Committee Member, 2012
Supply Chain Cluster Chair, INFORMS Midwest Conference, August 2010
Special Issue Editor for *Interfaces*: “Analytics in Sports”, 2009-2012
Treasurer, Cincinnati-Dayton INFORMS Chapter, 2010-2012
INFORMS Interactive Session Judge, November 2010, November 2011
Ohio Automotive Industry Council Appointee, 2009-2010
POMS Supply Chain College Best Student Paper Competition Co-Chair, 2010
POMS Conference Logistics Management Track Co-chair, Vancouver, BC, 2010
POMS Conference Supply Chain College Track Co-chair, Orlando, FL, 2009
POMS Supply Chain Meeting Session Break-out Presenter, Orlando, FL, 2009
Doctoral Colloquium Speaker, POMS Conference, La Jolla, CA, 2008
Secretary, Cincinnati-Dayton INFORMS Chapter, 2008-2009
Editorial Review Board Member, *Decision Sciences Journal*, 2007-2012
Vice Chair – Publications, OR in SpORts Section, INFORMS, 2004-2008
Education Chairperson, Greater Cincinnati Chapter of Council of Supply Chain Management Professionals (formerly Council of Logistics Management), 2002-2012
Proceedings Review Board, MSOM Conference, Atlanta, GA, 2006
INFORMS Invited Sessions Organizing Committee, 2005
Invited Session Chair, INFORMS International Conference, Puerto Rico, 2007
POMS Supply Chain Meeting Session Moderator, Austin, TX, 2007
Doctoral Colloquium Speaker, POMS Conference, Dallas, TX, 2007
Invited Session Chair, POMS Conference, Dallas, TX, 2007
Invited Session Chair, INFORMS National Conference, San Francisco, CA, 2005
Invited Session Chair, INFORMS National Conference, Atlanta, GA, 2003
Invited Session Chair, INFORMS National Conference, San Jose, CA, 2002
Invited Session Chair, INFORMS International Conference, Maui, Hawaii, 2001
Founding Member, Supply Chain@UC Interest Group
Review Committee, International Conference on Operations and Supply Chain Management, 2005
Reviewer, Hong Kong Research Grants Council, 2005, 2006, 2008, 2012
Textbook Reviewer, *Supply Chain Management: A Value Network Approach*, John Wiley & Sons
Referee for *Management Science*, *Manufacturing & Service Operations Management*, *IIE Transactions*, *Naval Research Logistics*, *Interfaces*, *Annals of OR*, *Production and Operations Management*, *European Journal of Operations Research*, *Computers & Industrial Engineering*, *Omega*, *INFORMS Transactions on Education*, *Journal of Quantitative Analysis in Sports*, *OR Spectrum*

HONORS AND AWARDS

Named Lindner Research Fellow, 2013-Current
Dean’s List of Teaching Excellence, Spring 2013, Summer 2013, Fall 2013, Spring 2014
Michael L. Dean Excellence in Classroom Education and Learning (EXCEL) Graduate Teaching Award Winner, 2013
2nd Place, INFORMS Section on Public Programs, Services and Needs Best Paper Competition, 2011
Award Winner, CincyTech Venture Funding Prize, Cincinnati Innovates, 2012
Board of Advisors Member, PredictionMachine.com, 2011 - Current

Selected to Supply Chain Thought Leaders, 2010 - Current
Daniel H. Wagner Prize for Excellence in Operations Research Practice Finalist, 2008
Scholar Exchange Participant with Audencia University, Nantes, France, November 2007
Cincinnati/Dayton INFORMS Outstanding Young Member Award, 2007
University Merit Bonus Award for Teaching Performance, 2007
POMS Emerging Scholars Participant, 2007
Awarded Daniel J. Westerbeck Junior Faculty Graduate Teaching Award, 2006
University Merit Bonus Award for Research Performance, 2006
Michael L. Dean Excellence in Classroom Education and Learning (EXCEL) Undergraduate Teaching Award Nominee, 2005, 2006
Michael L. Dean Excellence in Classroom Education and Learning (EXCEL) Graduate Teaching Award Nominee, 2002, 2007, 2011, 2013
Harold J. Grilliot Award Nominee for Outstanding Service to Undergraduate Student Organizations, 2013
INFORMS Young Researchers Roundtable Member, Appointed 2003
Rackham Pre-doctoral Fellowship Nominee (*This is the highest honor that the University of Michigan Graduate School bestows upon Ph.D. Candidates*), 2001
MSOM Student Paper Competition Finalist, November 2000
INFORMS Doctoral Colloquium, November 2000
Intel Foundation Graduate Fellow, 1998-1999
Graduate Assistant in the Area of National Needs Fellow, 1997-1998
University of Michigan Dean's Fellow, 1996-1997

PROFESSIONAL MEMBERSHIPS

Institute for Operations Research and the Management Sciences (INFORMS)
 Manufacturing and Service Operations Management (MSOM) Subdivision
 Junior Faculty Interest Group (JFIG)
 OR in Sports (Sp**OR**ts) Section
Production and Operations Management Society (POMS)
 College of Supply Chain Management
Omega Rho Honor Society
Council of Supply Chain Management Professionals (CSCMP)
The Association for Operations Management (APICS)