

Michael F. Gorman

University of Dayton
Department of MIS, OM and Decision Sciences
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Education:

Indiana University	Ph.D. Business and Economics	1994
Indiana University	M.A. Economics	1990
Xavier University	B.S. Computer Science and Economics	1987

Fields of Research:

- Application of Analytics
- Supply Chain and Operations
- Transportation and Logistics
- Rail and Intermodal Asset Optimization
- Business pedagogy, curriculum and experiential learning

Current Employment: University of Dayton, 2002-Present

Niehaus Endowed Chair in Operations and Analytics, 2019-Present.

J. R. Berry Endowed Fellow, 2009-2012; 2017-2019.

Full Professor, 2010-Present.

Associate Professor, 2005-2010.

Assistant Professor, 2002-2005.

Editorial Positions:

- **Editor in Chief**, *Interfaces/INFORMS Journal on Applied Analytics*, 2017-2022.
- **Special Issue Editor**, *INFORMS Transactions on Education*, IJAA-based case studies 2021-2022.
- **Special Issue Editor**, *INFORMS Journal on Applied Analytics*, 50th Anniversary Special Issue. 2020.
- **Associate Editor**, *Computers and Operations Research*, 2017-201X.
- **Editor in Chief**, *Surveys in Operations Research and Management Science*, 2013-2016.
- **Associate Editor**, *INFORMS Transactions on Education*, 2015-201X.
- **Contributing Editor**, **Management Insights**, *Management Science*, 2010-2016.
- **Deputy Editor**, **Acting Associate Editor**, *Interfaces*, 2008-2016.
- **Special Issue Editor**, *INFORMS Transactions on Education*, Field-based OR/MS Education, 2019.

- **Interfaces Special Issue in Transportation and Logistics Editor**, 2011-2014.
- **Area Editor**, *IIE Transactions, Analytics*, 2012-201X.
- **Editorial Review Board Member**, *Journal of Operations Management*, 2008-2015.
- **Co-Editor**, *International Journal of Business Intelligence Research*, 2012-2013.

Honors:

- **Niehaus Chair of Operations and Analytics**, 2019-Present.
- **Kimball Medal of INFORMS for Outstanding Service**, 2021.
<https://cattendee.abstractsonline.com/meeting/10390/awards-hall>
- **Michael F. Gorman Award for Distinguished Contributions to the INFORMS Analytics Society**.
Award named in my honor by the largest society in INFORMS, November 2020.
<https://connect.informs.org/analytics/awards>
- **Distinguished Member Award**, Railway Applications Section of INFORMS, 2018.
<https://www.informs.org/Recognizing-Excellence/Community-Prizes/Railway-Applications/RAS-Distinguished-Member-Award>
- **INFORMS Service Award**, for outstanding service, October 2017.
<https://www.informs.org/Recognizing-Excellence/Award-Recipients/Michael-Gorman>
- **Commendation**, General Assembly of the State of Ohio, for excellence in teaching, June 2015.
- **Wickham Skinner Teaching Achievements Award**, POMS, 2015.
- **Delta Sigma Pi Honorary Business Fraternity**, Student nominated inductee, Fall 2012.
- **University of Dayton Alumni Award for Excellence in Research**, Winner, Spring 2011.
- **INFORMS Teaching of OR/MS Practice Award**, Winner, 2010.
<https://www.informs.org/Recognizing-Excellence/Award-Recipients/Michael-Gorman>
- **INFORMS/CPMS Wagner Award**, Finalist, 2009,
“Hub Group Implements a Suite of Tools to Improve Its Operations”
- **INFORMS/CPMS Edelman Award**, Finalist, 2009,
“CSX Railway Cashes in on Optimization of Empty Equipment Distribution”.
- **Best Reviewer Award**, *Journal of Operations Management*, 2009.
- **Alpha Nu Omega Award for Educational Excellence**, University of Dayton, 2009.
- **J. Robert Berry Endowed Fellow**, University of Dayton, 2009-2012; 2017-2019.
- **INFORMS/CPMS Edelman Award**, Semifinalist, 2008,
“Hub Group Implements a Suite of Tools to Improve Its Operations”.
- **INFORMS/CPMS Edelman Award**, Semifinalist, 2007,
“North American Rail Industry Cashes in on Empty Railcar Distribution Systems”.
- **INFORMS/CPMS Wagner Award**, Finalist, 2005,
“Rethinking Inventory Policies for Service Vehicles at a Major Appliance Manufacturer”
- **BNSF Employee of the Year Achievement Award** for the creation of RailPrices.com, 2001
- **BNSF Hill-Holiday Award of Outstanding Achievement**, Research in problem of crew fatigue, 1997

- **Alice French Award** for outstanding Associate Instructor in Economics, Indiana University, 1992
- **“Rookie of the Year” Award** for excellent first year teaching in Economics, Indiana University, 1989
- **Department of Economics Award** for excellence in economic theory, Xavier University, 1987
- **Magna Cum Laude** graduate, Xavier University, 4.0 average in Economics, 1987
- **Omicron Delta Epsilon**, Economics Honor Society, Xavier University, 1986-1987

Refereed Publications:

1. Gorman, M. F., Clarke, J. P., de Koster, R., Hewitt, M., Roy, D., & Zhang, M. (2023). Emerging practices and research issues for big data analytics in freight transportation. *Maritime Economics & Logistics*, 25(1), 28-60.
2. Gorman, M. F. 2022 Case – Case Article—Blending Statistics, Optimization, and Simulation in a Multiphase Case, *INFORMS Transactions on Education*.
3. Gorman, M.F. 2022. Case Article - Swirltubs After Market Vehicle Inventory Case. *INFORMS Transactions on Education*.
4. Gorman, M. F. 2021. Case— Case Article — Integrative Case Study: Louisiana Branch Lines. *INFORMS Transactions on Education*.
5. Gorman M. F. 2021. When the Problem is not the Problem: Contextual Complications in Modeling. *INFORMS Journal on Applied Analytics*, 51(4), 245-261.
6. Gorman, M. F. 2021. Le Macaron Implements Ordering Optimization, *INFORMS Journal on Applied Analytics*, 51(3), 236-241.
7. Gorman M. F. 2020. Editorial: The 13th Rothkopf Rankings: All-Time Interfaces/INFORMS Journal on Applied Analytics 50-year anniversary special edition. *INFORMS Journal on Applied Analytics*, 50(6), 387-395.
8. Gorman, M. F., Nittala, L., & Alden, J.M. 2020. Anatomy of the Edelman: Measuring the world’s best analytics projects. *INFORMS Journal on Applied Analytics*, 50(6), 373-386.
9. Gorman, M. F. 2019. The 12th Rothkopf Rankings, *Interfaces*, 46(3), 264-276.
10. Gorman, M. F., Wilker, Z. & Stiffler, P. 2019. Practice Summary: Mikesell’s Implements a Scheduling Tool to Improve Operating Efficiency, *Inform Journal on Applied Analytics*, 49(3) 227-230.
11. Gao, L., Shi, J., Gorman, M. F. and Luo, T. 2019. Business analytics for intermodal capacity management. *Manufacturing & Service Operations Management*. 22(2) 310-329.
12. Conway, D. G. and Gorman, M. F. 2018. A Tutorial of Integrating Duality and Branch and Bound in Earliness-Tardiness Scheduling with Idle Insertion Time Problems. *International Journal of Production Research*. 56 (1-2), 262-277.
13. Gorman, M. F. 2017. A Survey of Research in Field-Based Education: A Summary of Process, Best Practices, and Lessons Learned. *INFORMS Transactions on Education*, 18 (3) 145-161.
14. Gorman, M. F. 2016. A “Metasurvey” Analysis in Operations Research and Management Science: A survey of literature reviews. *Surveys in Operations Research and Management Science* 21 (1) 18-28.
15. Gorman, M. F. 2016. Multiple period repair kit problem with capacity considerations. *Journal of Transportation Technologies*, 6 (5) 457-468.

16. Gorman, M. F. 2016. Editorial: The 11th Rothkopf Rankings: 28 Years of Tracking Applied Research in Academia. *Interfaces*, **46** (3), 264-276.
17. Gorman, M. F. 2016. From Magnum Opus to Mea Culpa: A Cautionary Tale of Lessons Learned from a Failed Decision Support System. *Interfaces*, **46** (2), 183-195.
18. Gorman, M. F. & Ball, T. 2015. ChemStation embarks on a new approach to delivery scheduling, *Interfaces*, **45**(6), 567-571.
19. Camm, J. D., Cochran, J. & Gorman, M. F. 2014. Use of Interfaces in Academia. *Interfaces*, **45** (2) 187-195.
20. Gorman, M. F., Clarke, J. P., Gharehgozli, A. H., Hewitt, M., R de Koster & Roy, D. 2014. State of the Practice: A Review of the Application of OR/MS in Freight Transportation. *Interfaces* **44** (6), 535-554.
21. Gorman, M. F., & Klimburg, R. 2014. Benchmarking Academic Programs in Business Analytics *Interfaces* **44** (3), 329-341.
22. Gorman, M. F., Wynn, D. & Salisbury, D. 2013. Searching for Herbert Simon: Extending the Reach and Impact of Business Intelligence Research through Analytics. *International Journal of Business Intelligence Research*. **4**(1) 1-12.
23. Gorman, M. F. 2013. Integrating Strategic and Tactical Rolling Stock Models with Cyclical Demand. *Journal of Transportation Technologies*, **3**(2) 162-173.
24. Stoeslein, M., Kanet, J., Gorman, M. F. & Minner, S. 2013. Time-phased safety stocks planning and its financial impacts: Empirical evidence based on European econometric data. *International Journal of Production Economics*, 149, 47-55.
25. Gorman, M. F. 2012. Analytics, Pedagogy and the Pass the Pigs Game, *INFORMS Transactions on Education*, 13(1), 57-64.
26. Gorman, M. F., & Kanet, J. J. 2011. Evaluating transportation journal quality via survey. *Transportation Journal*, **50**(4) 390-415.
27. Gorman, M. F., Kanet, J.J., & Christ, D. 2011. Evaluating transportation journal quality with AAI. *Transportation Journal*, **50**(4) 370-389.
28. Gorman, M. F. 2011. Student Reactions to the Field Consulting Capstone Course in Operations Management at the University of Dayton. *Interfaces* **41**(6) 564-577.
29. Gorman, M. F., & Kanet, J. J. 2011. Toward a Better Understanding of the Bullwhip Effect. *Production and Inventory Management Journal* **47**(1) 33-42.
30. Gorman, M. F., Crook, K., & Sellers, D. 2011. North American freight rail industry real-time optimized equipment distribution systems: State of the practice. *Transportation Research, Part C* 19 103–114.
31. Gorman, M. F. 2010. The University of Dayton operations management capstone course: Undergraduate student field consulting applies theory to practice. *Interfaces* **40**(6) 432-443.
32. Gorman, M. F. 2010. “Business skilling” of the IT professional: Making today’s IT leaders into tomorrow’s business leaders. *Journal of Education for Business* **86**(1) 17-24.
33. Gorman, M. F. 2010. Hub group implements a suite of OR tools to improve operations. *Interfaces* **40**(5) 368–384. **2009 Wagner Award Finalist.**
34. Gorman, M. F., Acharya, D., & Sellers, D. 2010. CSX Railway cashes in on optimization of empty equipment distribution. *Interfaces* 40(1) 5-16. **2009 Edelman Award Finalist.**
35. Gorman, M. F., Hoff, J., & Kinion, R. 2009. Tales from the front: Lean case studies indicate that you can

- have too much of a good thing. *Interfaces* **39**(6) 540-548.
36. Kanet, J. J., Stoesslein, M., & Gorman, M. F. 2009. Time phasing safety stocks for production planning. *International Journal of Production Research* **48**(2) 6859–6880.
 37. Gorman, M. F., Salisbury, J. D., & Brannon, J. I. 2009. The price is right? The quandary of making price and advertising decisions. *Electronic Markets* **19**(2) 151-162.
 38. Gorman, M. F., & Kanet, J. J. 2009. Formulation and solution approaches to the rail maintenance production gang scheduling problem. *Journal of Transportation Engineering Volume* **136**(8) 701-708.
 39. Gorman, M. F., & Ruggiero, J. 2009. Evaluating U.S. county prosecutor performance using DEA: Are disadvantaged counties more inefficient? *European Journal of Law and Economics* **27**(3) 275.
 40. Gorman, M. F. 2009. Statistical estimation of line congestion delay in U.S. freight rail. *Transportation Research, Part E* **45** 446-456.
 41. Gorman, M. F. 2008. Effective integration of technology into business statistics. *INFORMS Transactions on Education* **9**(1) 10-19.
 42. Gorman, M. F. 2008. Evaluating the public investment mix in U.S. freight transportation infrastructure. *Transportation Research Part. A* **42**(1) 1-14.
 43. Gorman, M. F., & Kinion, R. 2008. Johnson Electric uses simulation to rebalance cell operations and improve throughput. B. T. Denton, ed. *Interfaces Practice Abstracts* **38**(5) 406-407.
 44. Gorman, M. F., & Ruggiero, J. 2008. Evaluating U.S. state police performance using data envelopment analysis. *International Journal of Production Economics* **113** 1031-1037.
 45. Ahire, S.A., Gorman, M. F., Dwiggins, D., & Mudrey, O. 2007. Operations research helps reshape operations strategy at Standard Register Company. *Interfaces* **37**(6) 553-565.
 46. Ferratt, T., Gorman, M. F., Kanet, J. J., & Salisbury, W. D. 2007. Assessing journal quality assessment: AAI and journal quality lists. *Communications of the Association for Information Systems* **19** 710-724, Letter 5.
 47. Ferratt, T. W., Gorman, M. F., Kanet, J. J., & Salisbury, W. D. 2007. IS journal quality assessment using the author affiliation index. *Communications of the Association for Information Systems* **19** Article 34, 710-724.
 48. Gorman, M. F., & Kanet, J. J. 2006. Following up on evaluating OM-related journals via the author affiliation index: Do professors at top U.S. business schools do what they say? *Manufacturing and Service Operations Management* **9**(1) 51-53.
 49. Gorman, M. F., & Ahire, S. 2006. A major appliance manufacturer rethinks its inventory policies for service vehicles. *Interfaces* **36**(5) 407-419. **2005 Wagner Award Finalist.**
 50. Gorman, M. F., & Conway, D. G. 2006. An application of interdependent lot sizing and consolidation point choice. *Mathematical and Computer Modeling* **44** 65-72.
 51. Gorman, M. F. 2005. Estimation of an implied price elasticity of demand through current pricing practices. *Applied Economics* **37**(9) 1027-1035.
 52. Gorman, M. F. 2005. Fleet ownership and intermodal supply-chain efficiency. *Journal of Transportation Law, Logistics and Policy* **72**(1) 63-70.
 53. Gorman, M. F., & Conway, D. G. 2005. Logistics costs based estimation of freight transportation demand for capacity planning. *Journal of the Transportation Research Forum* **44**(1) 141-155.

54. Gorman, M. F., & Kanet, J. J. 2005. Evaluating operations management-related journals via the author affiliation index. *Manufacturing and Service Operations Management* **7**(1) 3-19.
55. Brannon, J. I., & Gorman, M.F. 2002. The effects of information costs on search and convergence in experimental markets. *Journal of Economic Behavior and Organization* **47**(4) 375-390.
56. Gorman, M. F. 2002. Pricing and product mix optimization in freight transportation. *Transportation Quarterly* **56**(1) 135-148.
57. Gorman, M. F. 2001. Intermodal pricing model creates a network pricing perspective at BNSF. *Interfaces* **31**(4) 37-49.
58. Gorman, M. F., & Brannon, J. I. 2000. Seasonality and the production-smoothing model. *International Journal of Production Economics* **65**(2) 173-178.
59. Gorman, M. F., & Sarrafzadeh, M. 2000. An application of dynamic programming to crew balancing at Burlington Northern Santa Fe Railway. *International Journal of Services Technology and Management* **1**(2/3) 174-187.
60. Gorman, M. F. 1998. An application of genetic and tabu searches to the freight railroad operating plan problem. *Annals of Operations Research* **78** 51-69.
61. Gorman, M. F. 1998. Santa Fe Railway uses operating plan model to improve its service design. *Interfaces* **28**(4) 1-12.
62. Gorman, M. F. 1997. Locomotive to shop routing at Burlington Northern Santa Fe Railway. D. L. Keefer, ed. *Interfaces, Practice Abstracts* **27**(6) 112-114.

Book Chapters:

1. Kanet, J., Ahire, S., & Gorman, M. F. 2004. Constraint programming for scheduling. Joseph Y-T Leung, ed. *Handbook of Scheduling: Algorithms, Models and Performance Analysis*. CRC Press, LLC., 47(1-21).
2. Gorman, M. F. 2015. *Handbook of Operations Research in Freight Rail, Equipment Distribution Optimization in the Freight Rail Industry*. New York, New York. Bruce Patty, Ed. Vol 222.
3. Gorman, M. F. 2015. *Handbook of Operations Research in Freight Rail, Revenue Management Optimization in the Freight Rail Industry*. New York, New York. Bruce Patty, Ed. Vol 222.
4. Gorman, M. F., & Harrod, S. 2010. Operations research approaches in asset management in freight rail. *Encyclopedia of Operations Research and Management Science*.
5. Harrod, S., & Gorman, M. F. 2010. Operations research approaches in train operations in freight rail. *Encyclopedia of Operations Research and Management Science*.

University of Dayton Teaching Experience:

- **MBAN 710** – Capstone Course in Analytics
- **MBA 615/MBA@Dayton** – 5 weeks of 10 course, 2U environment
- **MBA611/MBA@Dayton** – 5 week online/synchronous format, 2U environment
- **OPS 494/MBA619** – Business Improvement Programs
- **DSC210** – Introductory Statistics
- **OPS 350** – Business Process Analysis and Design
- **OPS 301** – Introduction to Operations Management (Spain, Germany)

- **OPS485** – Senior Project Planning Course in Operations Management
- **OPS495** – Senior Project course in Operations Management
- **MBA691** – Analytic Approaches to Business Decision Making
- **MBA656** – International Business Experience
- **MBA617** – Business Process Analysis and Design (Standard)
- **MBA617** – Business Process Analysis and Design (Lexis Nexis)
- **MBA610** – Introductory Statistics for MBA
- **MBA611** – Inferential Statistics for MBA
- **MBA 610/611 Online Course**

Professional Memberships:

Institute for Operations Research and the Management Sciences (INFORMS), 1992-Present.
 Analytics Society of INFORMS – Charter Member, founding president, 2011-Present.
 Rail Applications Section (INFORMS) – Charter Member, 1995-Present.
 Production and Operations Management Society (POMS), 2002-Present.
 Cincinnati-Dayton INFORMS Local Chapter, 2002-Present.
 NURail Technical Advisory Committee, University of Illinois, 2013-2015.
 Transportation Research Forum, 1992-1998.

University Service Activities:

"Diversity, Equity and Inclusion at UDayton", April 2023
 P&T Committee – 2022-2023
 Faculty Affairs Committee, Chair, 2019-2022, Member 2022-2023
 UNRC, Secretary, 2018-2020, Member 2020-2023
 Graduate Committee, Chair, 2017.
 Research Council Committee member, 2015-2016.
 Alumni Award Committee, Co-Chair, 2013-2015.
 Deltak/Online MBA Subcommittee member, 2013-2014.
 Community Engagement Focus Group member, 2013.
 SBA Graduate Committee, Chair, 2013-2014. 2017.
 SBA Promotion and Tenure Committee, Chair, 2008-2010.
 MOD Department Hiring Committee, 2006, 2008, 2013, 2016, 2017, 2018.
 University of Dayton Human Resources Advisory Council (HRAC), 2007-2010.
 SBA Graduate Committee, 2005-2007; 2010-2012.
 SBA Promotion and Tenure Committee, 2007-2008.
 MOD Department Journal Quality Assessment Committee, 2003-2004.

Professional Service: Elected Leadership Roles in Organizations

Chair, (Inaugural). INFORMS Analytics Section, 2011 – 2012.
 Chair, Cincinnati-Dayton Chapter of INFORMS, 2011-2012.
 Chair, INFORMS Rail Applications Section, 2009-2010.
 Vice Chair, INFORMS Rail Applications Section, 2008-2009.
 Secretary, INFORMS CPMS Section, 2008-2011.
 Treasurer, INFORMS Cincinnati-Dayton Local Chapter, 2004-2005; 2005-2006.
 Treasurer, INFORMS Rail Application Special Interest Group, 2004-2005.
 Treasurer, INFORMS Rail Application Special Interest Group, 2002-2003.
 Chair, INFORMS Rail Applications Special Interest Group, 1997-1998.

Vice Chair, INFORMS Rail Applications Special Interest Group, 1996-1997.
Secretary, INFORMS Rail Applications Special Interest Group, 1995-1996.

Committees and Other Service:

POMS – Wickham Skinner Award Judging Committee, 2023
INFORMS – RAS Member of the Distinguished Member Competition, 2018-2023.
INFORMS – Publication Committee – 2019-2022.
INFORMS – RAS Chair of the Distinguished Member Competition, 2017-2018.
INFORMS – RAS Chair of the Rail Problem Solving Competition, 2017-2018.
INFORMS – Edelman Award Judging committee, 2015-2023.
INFORMS Analytics Section – Innovations in Analytics Prize, Committee member, 2017-2019.
INFORMS – CPMS Council – 2013-2016.
Decision Sciences Institute – Buffa Dissertation Award – Committee, 2015, 2016
POMS – Wickham Skinner Award in Teaching – Committee, 2016.
INFORMS – Chapter, Sections and Societies Committee member, 2014-2015.
INFORMS – INFORMS Student Chapter Awards Selection Committee, 2015.
INFORMS Analytics Case-Data Project: Committee, 2014-2015.
INFORMS – Subdivisions, Sections and Societies Council, 2014-2015.
INFORMS – Analytics Committee - Analytics information subcommittee member, 2013-2015.
INFORMS – Diversity Council Subcommittee, 2015-2016.
INFORMS – Student Member Subcommittee, 2014-2015.
INFORMS – Annual Meeting Subcommittee, 2014-2015.
INFORMS Analytics Section – Innovations in Analytics Prize, Committee Chair, 2011-2014.
INFORMS Advisory Committee on Teaching Analytics Committee Member, 2014-2015. 2017-2018.
INFORMS – Teaching of OR/MS Practice Award Chair, 2012; Panel member, 2011, 2014.
INFORMS Analytics Section – SAS Ambassador Analytics Student Scholar, Chair, 2011-2012.
INFORMS – George Smith Award – Committee member, 2011-2013.
INFORMS Analytics Section – Track Chair, Session Chair, 4 sessions, 2012.
INFORMS – INFORMS Award – Committee Chair, 2011-2012.
INFORMS RAS – Rail Problem Competition Coordinator, 2010.
INFORMS Edelman Award Coach – Proctor and Gamble Team, 2010.
INFORMS – Prize Committee, 2009-2010.
INFORMS – Prize Semifinalist Judging Panel, 2009-2010.
Edelman Award Judging Panel, 2009-2010.
INFORMS RAS – Student Paper Contest Coordinator, 2008-2010.
INFORMS RAS – Student Paper Contest Judge, 2002, 2005.
Cluster Chair, INFORMS Conferences, RAS Track, 5 sessions: 1998, 2003, 2005, 2007, 2008.
Cluster Chair, INFORMS Conference Analytics Track, 2011-2013.
INFORMS – RASIG Round Table Coordinator, 4 sessions.
Session Chair, INFORMS Conferences, Over 60 Sessions from 1994-Present.
POMS Emerging Scholars Program Co-chair, 2004-2013.
Program Editor, POMS Cancun, 2004.
Session Chair, POMS Cancun, 2004, 2010.

Referee:

Interfaces

Computer Aided Civil and Industrial Engineering

Decision Sciences Journal of Innovative Education

INFORMS Transactions on Education
Journal of Computers and Industrial Engineering
Transportation Science
Journal of the Operational Research Society
Transportation Research Board
Computers and OR
Journal of the Transportation Research Forum
Mathematical and Computer Modeling
International Journal of Production Economics
ICIS Conference Research Paper Referee
Transportation Research, Part A
Transportation Research, Part B
Transportation Research, Part C
Transportation Research, Part E
Asia Pacific Journal of Operations Research
J. of Transportation Engineering
Decision Sciences Journal of Innovative Education
Computers and Industrial Engineering
J. Operations Management
Applied Economics
Empirical Economics
Institution of Civil Engineers Journal – Transport

Conference and Invited Presentations:

1. An Empirical Investigation into the Prevalence and Impacts of Complicating Environmental Factors in Applied Analytical Modeling, Fall INFORMS General Meetings, October 15, 2023.
2. Current trends in analytics: An academic perspective. Technology First, Dayton, OH, January 19, 2023.
3. “Precision Train Scheduling: Friend or Foe?”, Minnesota Shortline Conference, July 18, 2022.
4. Early Career Professional Network Presentation, Analytics Conference of INFORMS, April 2, 2022.
5. Editor’s in Chief Round-robin Discussion. Spring Midwest DSI virtual conference, April 9, 2022.
[video1619825221.mp4](#)
6. Context-sensitive model development in Rail. Presented to Rail Applications Section Webinar series, May 19, 2021.
7. Domain Complication in Analytics, CINDAY INFORMS Regional Meeting, January 2020.
8. UD MODCON, Bridging the Gap Between Theory and Practice, Fall, 2019.
9. How to Manage Your Academic Career, INFORMS Doctoral Student Colloquium, INFORMS Seattle, Fall 2019.
10. Working with Industry, INFORMS Doctoral Student Colloquium, INFORMS Seattle, Fall 2019.
11. From Theory to Practice: Bridging Gaps and Finding Opportunities for the Application of OR/MS Research. POMS Washington, May 2019.
12. Constructing Productive Partnerships of Theory and Practice: Bridging the Gap from Academia to the “Real World,” INFORMS Analytics Conference, Austin, TX, April 2019.

13. From Theory to Practice: Bridging Gaps and Finding Opportunities for the Application of OR/MS Research. Invited presentation at University of Missouri, St. Louis, February 2019.
14. From Theory to Practice: Bridging Gaps and Finding Opportunities for the Application of OR/MS Research. Invited presentation at Florida Gulf Coast University, February 2019.
15. From Theory to Practice: Bridging Gaps and Finding Opportunities for the Application of OR/MS Research. Invited presentation at Erasmus University, Rotterdam School of Management, September 2018.
16. Analytics in Action: Commonalities of Successful Analytics Applications, Leiden University, Holland, invited lecture, Leiden University, Leiden, Netherlands, 2018.
17. Analytics in Action: Commonalities of Successful Analytics Applications, Leiden University, Holland, invited lecture, Auburn, Alabama, October 2017.
18. Analytics in Action: Commonalities of Successful Analytics Applications, Auburn University invited lecture, Auburn, Alabama, October 2017.
19. Excel-based yard performance measurement and modeling. INFORMS Houston, 2017.
20. Collaboration in OR Practice, Panel member and moderator. INFORMS Houston, 2017.
21. The Academic Job Market, Presentation to the INFORMS Professional Colloquium, INFORMS International Conference, Nashville, Tennessee, Fall 2016.
22. What to watch for in the publication process, Presentation to the INFORMS Professional Colloquium, INFORMS International Conference, Nashville, Tennessee, Fall 2016.
23. Inventory-based deliver routing and scheduling, (co-author, Daniel Conway) INFORMS National Conference, Nashville, Tennessee, Fall 2016.
24. Survey of Best Practices in Field Learning, INFORMS National Conference, Nashville, Fall, 2016. Survey of Freight Rail Fleet Sizing Methods, INFORMS National Conference, Nashville, Tennessee, Fall 2016.
25. ChemStation embarks on a new method of soap delivery, (co-author, Daniel Conway) POMS/Euroma International Conference, Havana, Cuba, Fall 2016.
26. ChemStation embarks on a new method of soap delivery, (co-author, Daniel Conway) CIN/DAY INFORMS Conference, October 9 2015.
27. From Magnum Opus to Mea Culpa: Lessons learned from a failed DSS, University of Missouri, St. Louis, March 2015.
28. ChemStation Multiple Vehicle Scheduling and Routing, Plenary presentation to ChemStations Owner's Summit, Tampa, Florida, March 2015.
29. Playing Nice: Common Pool Resource Governance for the Rail Industry's Pooled Rail Car Fleet, Rail Car Pooling Symposium, Brosnan Forest, South Carolina, December 2014.
30. Editor's Panel Discussion, INFORMS San Francisco, November 2014.
31. Innovative Applications in Analytics Award History, INFORMS Minneapolis, October 2013.
32. Analytics Programs Review, INFORMS Minneapolis, October 2013.
33. Designing an Integrated Analytical Decision Support System in Intermodal Freight Transportation at Hub Group. Invited presentation, University of Oklahoma, September 30, 2013.
34. Designing an Integrated Analytical Decision Support System in Intermodal Freight Transportation at

- Hub Group. Invited presentation, Analytics Summit, University of Cincinnati, May 30, 2013.
35. Analytics and Intermodal Rail. INFORMS Fall Conference, Phoenix, AZ, October 2012.
 36. Time-Phased Safety Stocks Planning and its Financial Impacts: Econometrical Evidence from European Economies, Martin Stöblein, Jack Kanet, Mike Gorman, Stefan Minner, April 2012.
 37. Decision Support Systems at Intermodal Marketing Companies – Best practices and lessons learned. INFORMS Analytics Conference, April 2012.
 38. Analytics Programs – Panel Discussion. Discussant and panel moderator. INFORMS Annual Conference, November 2011.
 39. Technology-Enabled Business Statistics Education, INFORM-ED invited speaker, INFORMS Annual Conference, November 2011.
 40. INFORMS-Analytics Movement: Where we've been, where we are, and where we are going, INFORMS Annual Conference, November 2011.
 41. OR and Undergraduate Education, Invited Panel Speaker, November 2011.
 42. Analytics trends in US Railroads. INFORMS – Rail Application Section – Roundtable Panelist, INFORMS Annual Conference, November 2011.
 43. IFORS/INFORMS Sponsored Plenary speaker, “Field Based Learning: Best Practices and Lessons Learned,” Operations Research Society of Eastern Africa, Kenyatta International Conference Center, Nairobi, Kenya, October 2011.
 44. Rail research: past, present and future trends, INFORMS, Austin, Texas, 2010.
 45. Optimization of Railcar Distribution: Optimization, Data, Systems and Process Integration, Spotlight on Technology, Arts, Research and Scholarship, University of Dayton Research Symposium, 2010.
 46. Toward a Better Understanding of the Bullwhip Effect, POMS, Vancouver, Canada, 2010.
 47. CSX Railway Cashes in on Optimization of Empty Equipment Distribution, with D. Sellers and D. Acharya, invited presentation, University of Florida Industrial Engineering Department, April 2010.
 48. Applied Capstone Course Design Elements: Pedagogical and Practical Considerations, INFORMS, San Diego, 2009.
 49. CSX Uses OR to Cash in on Optimized Equipment Distribution, (Edelman Reprise), INFORMS, San Diego, 2009.
 50. Integrating Steady State and Dynamic Rolling Stock Models with Cyclical Demand, INFORMS, San Diego, 2009.
 51. Integration of Systems, Process and Optimization at Hub Group, INFORMS, San Diego, 2009.
 52. Hub Group Implements a Suite of Integrated O.R. Tools to Improve Operations, Wagner Award Finalist, INFORMS, San Diego, 2009.
 53. Time Phasing Safety Stocks for Production Planning, with J. Kanet and M. Stoesslein, Bonn, Germany, July 2009.
 54. Yield Management in Intermodal Freight Rail with Long Gao, POMS, Orlando, 2009.
 55. Using SAS/OR in Production Decision Support Systems, Integration and Optimization, invited speaker, SAS User Training, INFORMS Practice Conference, Phoenix, 2009.
 56. Perspectives on Making OR work in the Real World, invited speaker, INFORMS Professional

Colloquium, INFORMS Practice Conference, Phoenix, 2009-2013.

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62. Gang Scheduling In U.S. Rail, Michigan State University Rail Education Training Program, Pueblo, Colorado, March 10, 2008.
63. Statistical Estimation of Line Congestion Delay in U.S. Freight Rail, INFORMS, Seattle, Washington, Fall 2007.
64. The Consistency of Tactical and Strategic Inventory Targets, INFORMS, Seattle, Washington, Fall 2007.
65. Evaluating U.S. State Police Performance Using Data Envelopment Analysis, with J. Ruggiero, INFORMS, Pittsburgh, Pennsylvania, Fall 2006.
66. Standard Register uses Operations Research to set Corporate Strategy, with S. Ahire, INFORMS, Pittsburgh, Fall 2006.
67. A Major Manufacturer Rethinks its Service Vehicle Stocking Strategy, guest speaker, Cincinnati/Dayton, Ohio, Chapter of INFORMS, December 2005.
68. Reservations, Forecasting, Yield Management and Railroads, INFORMS, New Orleans, Louisiana, November 2005.
69. A Major Manufacturer Rethinks its Service Vehicle Stocking Strategy, INFORMS, New Orleans, Louisiana, November 2005 (Wagner Award Finalist).
70. Equipment Spot Markets and Intermodal Supply Chain Efficiency, CPMS invited speaker, INFORMS, New Orleans, Louisiana, November 2005.
71. A Major Manufacturer Rethinks its Service Vehicle Stocking Strategy, INFORMS, New Orleans, Louisiana, November 2005.
72. The Capstone Experience: Students Engaged in Working World Projects, University of Dayton LTF Session Presenter, October 18, 2005.
73. Optimization Approaches to Gang Scheduling at BNSF, with J. Kanet and B. Roth, invited speaker, Northwestern University, October 2005.
74. At the Intersection of Research, Practice and Teaching: OPS495, POMS, Chicago, Illinois, 2005.
75. Optimization Approaches to Gang Scheduling at BNSF, with J. Kanet and B. Roth, invited speaker, University of Illinois, April 2005.
76. Gang Scheduling at BNSF Railway, University of Dayton Research Presentation, December 2004.
77. Operations Research in Marketing Applications at Railroads, RASIG INFORMS Seminar, Fort Worth, Texas, December 2004.

78. Gang Scheduling at BNSF, with J. Kanet and B. Roth, INFORMS, Denver, Colorado, October 2004.
79. DEA and Railyard Efficiency, with J. Ruggiero, INFORMS, Denver, Colorado, October 2004.
80. OPS495 – Raising Undergraduate Education to Real-world Consulting Projects, POMS, Cancun, May 2004.
81. Estimating Journal Quality via the Author Affiliation Index, with J. Kanet, University of Dayton Faculty Exchange Series, September 2004.
82. Estimating Journal Quality via the Author Affiliation Index, with J. Kanet, University of Cincinnati Operations Management Workshop, May 2004.
83. Estimating Journal Quality via the Author Affiliation Index, with J. Kanet, POMS, Cancun, May 2004.
84. Inventory and Modal Choice Decisions, with D. Conway, INFORMS, Atlanta, Georgia, October 2003.
85. JIT and Inventory-Driven Mode Optimization, Council of Logistics Management Conference, Chicago, Illinois, Track 18, Sessions A and G, September 2003.
86. Railroad Operating Plan Development: The State of the Art and the State of the Practice, INFORMS, San Jose, California, November 2002.
87. Supply Chain Opportunities in the Rail Industry: Setting the Table, INFORMS, San Jose, November 2002.
88. Optimal Clean Slate Operating Plan Development, CIS States, Washington D.C., 2002.
89. eBusiness at BNSF, Western Coal Transportation Association, Denver, Colorado, August 2000.
90. eBusiness and Operations Research in the Rail Industry,” INFORMS, Salt Lake City, Nevada, May 2000.
91. Internet-Enabled Transportation Provider Supply Chain Integration, invited speaker, eCommerce for Freight Transportation Conference, Atlanta, Georgia, April 2000.
92. Centralized and Market-based Pricing Approaches to Pricing Externalities, University of New Hampshire Economics Workshop, 1999.
93. Applications of Operations Research at the Burlington Northern Santa Fe Corporation, Dallas/Fort Worth, Texas, Chapter of IEEE, 1998.
94. Pricing and Product Mix Optimization in Transportation Markets, INFORMS, Dallas, Texas, October 1997.
95. An Application of Interdependent Lot Size and Consolidation Point Choice, Supply Chain Linkages Symposium sponsored by Decision Sciences, Indiana University, May 1996.
96. A Dynamic Programming Approach to the Crew Balancing Problem in Freight Rail, INFORMS, Washington, April 1996.
97. An Experimental Analysis of Posted-Bid Markets with Costly Information, with J. I. Brannon, Midwest Economics Association, Chicago, March 1996.
98. Applications of Operations Research at the Burlington Northern Santa Fe Corporation, Kent T. Healy Memorial Fund sponsored workshop for the University of Pennsylvania Department of Systems Engineering, January 1996.
99. Distributed Decision-Making and Locomotive Maintenance Scheduling, INFORMS, New Orleans, Louisiana, October 1995.

100. Optimization-Based Approaches to Service Design in Freight Rail: State of the Art and State of the Practice Review, University of Pennsylvania Workshop on Service Design and Management in Railroad Operations, July 1995.
101. The Operating Plan Model: An Application of Clean-Slate Optimization of Intermodal Operating Plans at Santa Fe Railway, INFORMS, Los Angeles, California, April 1995.
102. Fleetsize Planning, Power Distribution and Locomotive Assignment: A Comprehensive and Integrated Model for Freight Rail, INFORMS, Detroit, Michigan, October 1994.
103. Service Scheduling at Santa Fe Railway: Status Report, 36th Annual Transportation Research Forum, Daytona Beach, Florida, November 1994.
104. Operations Research at Santa Fe Railway: Current Status and Future Objectives, INFORMS, Boston, Massachusetts, May 1994.
105. An Experimental Analysis of Posted-Offer Markets with Costly Information, with J. I. Brannon, Midwest Economics Association, Chicago, Illinois, Spring 1994.
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2. Gorman, MF. Rail Safety Policy After East Palestine. *Regulation*, Summer 2023. <https://www.cato.org/regulation/summer-2023/rail-safety-policy-after-east-palestine>
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60. "Why This Railroad B2B Needs \$8 Million," Joseph Radigan, *CFO.com*, June 12, 2001.
61. "Shifting the Spotlight," Jeff Stagl, *Progressive Railroading*, March 2001.
62. "Six North American Railroads Eye Further E-marketplace Study," *Rail Systems Technology*, August 28, 2000, 8(8).

Previous Teaching Experience:

- **Southern Methodist University**, Dallas, Texas, Department of Engineering Management, Information and System, Adjunct Faculty, 1997-Spring 2002.
- **Management of Information Systems**, graduate level course, Summer 2000.
- **Economic Decision Making** (2 semesters), applied finance course for graduate level engineers.

Lewis University, Romeoville, Illinois, Department of Economics, Adjunct Faculty, 1993-1994.

- **Business Economics** (2 semesters), MBA level introductory Micro and Macroeconomics.
- **Managerial Economics** (2 semesters), MBA level course covering topics in linear programming, statistics and applied microeconomics.

Xavier University, Cincinnati, Ohio, Department of Economics, Visiting Instructor, 1991-1992.

- **Introduction to Macroeconomics** (1 semester); **Introduction to Microeconomics** (1 semester).

Indiana University Business School, Bloomington, Indiana, Department of Operations Management, Associate Instructor, 1991.

- **Introduction to Operations Management** (2 semesters).

Indiana University, Bloomington, Indiana, Department of Economics, Associate Instructor, 1988-1991.

- **Introduction to Microeconomics** (4 semesters); **Introduction to Macroeconomics** (3 semesters).

Corporate Experience:

Burlington Northern Santa Fe Railway, 1992-1998; 1999-2002.

Director, Supply Chain Solutions, 2000-Spring 2002.

- Evaluated and implemented service extension and integration opportunities for BNSF
 - Less than carload product business plan proposal and recommendation
 - Freight forwarding business plan proposal and recommendation – drove acquisition of small truck brokerage operation from Click Logistics
 - eCommerce technology capabilities and integration evaluation and recommendation
 - Transportation and fleet management bid to the Department of Defense
 - Logistical process analysis and recommendations with leading customers such as Proctor and Gamble, Coors, Maverick Tube, San Joaquin Refineries, and The Home Depot

Director, eStrategy, 1999-2000.

- Established strategy for rail response to challenges and opportunities presented by the Internet: New marketing channels, new service offerings and eMarketplace participation.
- **RailMarketplace.com**: Rail industry supply chain collaboration and procurement marketplace.
 - **Chief Financial Officer** of RailMarketplace.com during its incubation period.
 - Works with industry-wide representation, develops business plan, selects technology, and negotiates terms of agreement for formulation of the company.
- **RailPrices.com**: New marketing channel creation and ease of doing business for small customers.
 - Presents rail prices in graphical, map-based user-friendly format for new rail users
 - Encourages price simplicity and transparency for the rail industry
 - Opens doors for door-to-door pricing to nontraditional rail customers
- **CarsOnTrack.com**: Individual vehicle shipping service.
 - Less-than-carload, retail rail offering and first railroad acceptance of credit card payment.

Director, Operations Research and Decision Support, 1996-1998.

- Directed multi-million dollar modeling and software development projects for the automation of real-time railcar distribution, locomotive assignment (two publications), and crew balancing and scheduling (one refereed publication).
- Determined data sources, hardware, communications, operating system and programming language.
- Coordinated numerous inter-departmental teams to complete projects on-time and under budget.
- Successfully expanded planning horizons, increased decision effectiveness and reduced staffing requirements.

Manager, Operations Research, 1994-1995.

- Developed warehouse location model for maintenance of way materials storage and distribution.
- Lead marketing study of automotive supply chain management and distribution center location (one publication).
- Designed crew management and manpower planning system for setting of labor levels.
- Contributed to implementation of train capacity management and short term forecasting systems.
- Developed high-level schematic for integration of operations research support tools and model design

for business process reengineering.

Manager, Intermodal Applications, 1993-1994.

- Carried out influential price elasticity of demand studies and designed a model to set target prices in interrelated markets (three refereed publications).
- Evaluated centralization of drayage operations.

Research Project Manager, 1992-1993.

- Developed train scheduling model for railroad operations.
- Applied artificial intelligence approach to solving a large-scale combinatorial optimization problem.

Key Auto Group, President, 1998-1999.

- Responsible for daily operations, department and store integration for \$50mm per year automotive retailing business, including new and used sales at 4 locations, service, parts, body shop, auto rentals, purchase financing.
- Managed accounting, financial reporting and cash flow.
- Maintained corporate relations with General Motors and GMAC.

Consulting Experience:

MFG Consulting, Inc., MFG Analytic, Inc. President, 2002-Present.

- **Sponsoring Companies:** BNSF Railway, Kansas City Southern Railway, Hub Group, Schneider, Standard Register, City of Trotwood, Little Caesars Enterprises, NewPage Corp, Vectren Energy, Pacer, MITRE Corporation, ChemStation, Runzheimer.
- **Selected Projects undertaken:**
 - Product delivery scheduling and routing optimization
 - Salesperson scheduling and routing
 - Real-time load acceptance and routing decision support tool design and development project
 - Short-term forecasting project for intermodal loadings with major railroad and intermodal trucking companies
 - Research on Public/Private partnerships in rail infrastructure investment
 - Transportation pricing optimization
 - Transportation rolling stock fleet sizing and allocation optimization
 - Production, transportation and job allocation optimization
 - Railyard benchmarking study
 - Assessment of Romanian Railroad/Port of Costantza operating interface
 - Statistical analysis of effectiveness of educational programs, Oakwood, Ohio school district
 - Decision support system technology roadmap development

Charles River Associates, Senior Consultant, 2003-Present.

- Provide expert advice on transportation-related projects on an as-needed basis for Charles River Associates clients
- Expert witness in a multi-million dollar case involving breach of contract and damages calculation in a dispute between a rail carrier and a perishable commodities logistics company

Internship Research Experience:

Advanced Sciences, Inc., Statistical Programming Consultant, 1991-1992.

- Developed SAS software for the determination of statistical distributions.

Center for Econometric Modeling Research, Indiana University, Research Assistant, 1987-1988.

- Produced and presented quarterly forecast for paid subscribers in private sector.
- Pursued applied econometric research topics.
- Automated re-estimation process for forecasting model.

Personal:

Born: July 7, 1965

Citizenship: United States

Marital Status: Married, four children: Zachary, Nicholas, Joseph, Maria.

Interests:

Piano, soccer, skiing, occasional skydiver/paraglider and scuba diver.