

CURRICULUM VITAE
Alan Bowman, Ph.D.
Professor of Operations and Information Systems
Clarkson University
School of Business
February 28, 2021

I. Education

Ph.D., Operations Research, Cornell University, 1990
M.B.A., Arizona State University, 1986
B.S., Industrial Engineering, Arizona State University, 1980

II. Academic Honors and Awards

IBM Manufacturing Fellowship Award Winner
Tau Beta Pi, Industrial Engineering Honor Society
Dean's List
Summa Cum Laude

III. Areas of Specialization

Operations Research, Operations Management, Simulation

IV. Academic Experience

Professor, Clarkson University, since 2016.
Professor, Union Graduate College, 2003-2016.
Professor, Union College, 1990-2003.
Senior Associate Dean of Graduate Business Programs, Clarkson University, 2016-18.
Associate Dean, School of Management, Union Graduate College 2009-2016.
Interim Dean, School of Management, Union Graduate College, 2011, 2015-16.

V. Professional Experience

Internal Management Consultant, Salt River Project Electric/Water Utility, 1982-1986
Industrial Engineer, Reynolds Aluminum, 1978-1982.

VI. Courses Taught

Calculus
Probability

Operations Management
Business Process Simulation
Management Science
Health Care Operations Research
Decision Analysis and Supply Chain Modeling
Healthcare Operations Management

VII. **Scholarship**

Peer reviewed Journal Articles Published

1. R. Alan Bowman. Developing Optimal Student Plans of Study. To appear in Informs Journal for Applied Analytics.
2. R. Alan Bowman. Student Trajectories for Enrollment Forecasting. To appear in AIR Professional File.
3. R. Alan Bowman, James Lambrinos & Thomas Ashman, “Prospective Measures of Competitive Balance: Application to Money Lines in the National Hockey League”, Applied Economics, Vol. 50, No. 46, 2018, pp. 4925-4936.
4. Bowman, R. Alan, Thomas Ashman and James Lambrinos. “Warriors or Bulls – Introducing Retroactive Gambling Line Simulation”. Proceedings of the 2017 Winter Simulation Conference, pp. 837-848.
5. Huppertz, John W., R. Alan Bowman, George Bizer, Mandeep Sidhu, and Colleen McVeigh, “Hospital Advertising, Competition, and HCAHPS: Does It Pay to Advertise?”, Health Services Research, 52:4, 2017, pp. 1590-1611.
6. R. Alan Bowman, Thomas Ashman and James Lambrinos, “Using Sports Wagering Markets to Evaluate and Compare Team Winning Streaks in Sports”, American Journal of Operations Research, 5, 2015, pp. 357-366.
7. R. Alan Bowman, Thomas Ashman and James Lambrinos, “Prospective Measures of Competitive Balance: Application to Money Lines in Major League Baseball”, Applied Economics, Vol. 45, No. 29, 2013, pp. 4071-4081.
8. R. Alan Bowman, James Lambrinos and Thomas Ashman, “Competitive Balance in the Eyes of the Sports Fan: Prospective Measures Using Point Spreads in the NFL and NBA”, Journal of Sports Economics, Vol. 14, No. 5, 2013, pp. 498-520.
9. R. Alan Bowman and Joef Schmee, “Shift, Narrow, and Chop to Improve Process Capability”, Proceedings of the 2011 Winter Simulation Conference, pp. 3672-3683

10. Carlson, Jay, John W. Huppertz, R. Alan Bowman, James Lambrinos, Martin A. Strosberg and Natalia A. Kutzer, "Volunteering Time decisions: a multi-factor experimental study", International Journal of Nonprofit and Voluntary Sector Marketing, Vol. 14, 2011, pp. 1-16.
11. Ashman, Thomas, R. Alan Bowman and James Lambrinos, "The Role of Fatigue in NBA Wagering Markets: The Surprising "Home Disadvantage Situation", Journal of Sports Economics, Vol. 11, No. 6, December 2010, pp. 602-613.
12. Bowman, A., Doganaksoy, N., and Schmee, J. "Efficient Gradient-Based Optimization of Process Capability with Multiple Potentially Non-normal Response Variables," Communications in Statistics – Simulation and Computation, 39(4), 2010.
13. Bowman, R. Alan, "Efficient Sensitivity Analysis of PERT Network Performance Measures to Significant Changes in Activity Time Parameters," Journal of the Operational Research Society, Volume 58(10), 2007.
14. Bowman, R. Alan, "Developing Activity Duration Specification Limits for Effective Project Control," European Journal of Operational Research, Volume 174, 2006.
15. Bowman, Alan and Schmee, Josef, "Estimating Sensitivity of Process Capability Modeled by a Transfer Function," Journal of Quality Technology, Vol. 36 Number 2, 2004.
16. Bowman, R. Alan, "Sensitivity Curves for Effective Project Management," Naval Research Logistics, Volume 50, 2003.
17. Bowman, R. A., "Job Release Control Using a Cyclic Schedule," Production and Operations Management, Volume 11 Number 2, 2002.
18. Bowman, R. Alan., "Due Date-Based Metrics for Activity Importance in Stochastic Activity Networks" Annals of Operations Research, Volume 102, 2001.
19. Bowman, R. Alan. and Schmee, Josef, "Pricing and Managing a Maintenance Contract for a Fleet of Aircraft Engines", Simulation, Volume 76 Number 2, 2001.
20. Sox, C.R., Jackson, P.L., Bowman, R.A., And Muckstadt, J.A., "A Review of the Stochastic Lot Scheduling Problem," International Journal of Production Economics, Volume 62 Number 3, 1999.
21. Bowman, R.A., Haimowitz, I.M., Mattheyses, A.Y., and Phillips, M., "Discrete Time Simulation of an Equipment Rental Business," Winter Simulation Conference Proceedings, 1998.

22. Bowman, R.A., and Muckstadt, J.A., "Production Control of Cyclic Schedules with Demand and Process Variability," Production and Operations Management, Volume 2 Number 4, 1995.
23. Bowman, A., "Efficient Estimation of Arc Criticalities in Stochastic Activity Networks," Management Science, Volume 41 Number 1, 1995.
24. Bowman, R. Alan, "Stochastic Gradient-Based Time-Cost Tradeoffs in PERT Networks Using Simulation, Annals of Operations Research, Volume 53, 1994.
25. Bowman, R. Alan, "Inventory: The Opportunity Cost of Quality," IIE Transactions, Volume 26 Number 3, 1994.
26. Bowman, R. A. and Muckstadt, J. A., "Stochastic Analysis of Cyclic Schedules," Operations Research, Volume 41 Number 5, 1993.

Academic/Professional Meeting Presentations

- Guikema, Seth, Steven Quiring, Ken Buckstaff, Mike Beck, Alan Bowman, Brent McRoberts, Roshanak Nateghi, "Power Outage Prediction for Adverse Weather Events". Presented (by Seth Guikema) at the 2018 JSM Conference in Vancouver.
- Bowman, R. Alan, Thomas Ashman and James Lambrinos. "Warriors or Bulls – Introducing Retroactive Gambling Line Simulation". Presented at the 2017 Winter Simulation Conference.
- Bowman, A. "Resource Modeling for Storm Damage Preparedness Planning", Presented at the Storm Outage Prediction, Preparedness, and Response Workshop at Ohio State University, August 2017.
- Bowman, A. and Schmee, J. "Shift, Narrow, and Chop to Improve Process Capability", Presented at 2011 Winter Simulation Conference.
- Bowman, R. A. and Schmee, J. "Sensitivity Analysis of Process Capability With Extensions to Tolerancing Using a Transfer Function", Presented at INFORMS Conference, 2004.
- Bowman, R. A. and Schmee, J. "Sensitivity Analysis of Process Capability With Extensions to Tolerancing Using a Transfer Function", Presented at SAS Institute Conference, 2004.

- Bowman, R.A. “The Use of Computer Simulation in Project Management”, Invited speaker at the February 2002 meeting of the Upstate New York Chapter of the Project Management Institute.
- Rosenblum, M., Bowman, R. A. and Dirani, R. “Using Survival Models to Predict the Start of Insulin in Patients With Type 2 Diabetes Mellitus,” Presented at ISPOR Conference, 2002.
- Bowman, R.A., “Timing Material Flow into Bottlenecks Using a Cyclic Schedule,” presented at INFORMS Conference in Montreal, 1998.
- Bowman, R.A., “Coordinating Vendor Replenishments with Volume Constraints and Demand Variability,” presented at Spring POMS Conference in Pittsburgh, 1995.

VIII. **Service Contributions**

To Operations Management/Operations Research Community

Referee for:

- Management Science
- Operations Research
- Annals of Operations Research
- International Journal of Project Management
- Production and Operations Management
- Journal on Computing
- IIE Transactions
- Operations Research Letters
- Naval Research Logistics
- Journal of the Operational Research Society
- Informs Journal of Applied Analytics

To Union Graduate College / Clarkson University

- Advocate (Gender Equity) 2020-?

- E&M Faculty Search Committee 2020-21.
- Faculty Development Committee 2019-20.
- Senior Associate Dean of Graduate Business Programs, Clarkson University, 2016-2018.
- Associate Dean, School of Management, Union Graduate College 2009-2016.
- Interim Dean, School of Management, Union Graduate College, 2011, 2015-16.
- Advising Committee, 2014.
- Chair of 3rd Year Review Committee, 2014
- Admissions Committee, 1995-present.
- Waiver Committee Chair, 2001-present.
- Academic Advisor, Full Time MBA Students, 2004–present.
- Assessment Committee, 2007-2012.
- Personnel Committee, 2011 – 2014.
- Middle States, Co-Chair of Working Group 2, 2010-2011.
- Chair of Tenurability Ad Hoc Committee, 2009.
- Chair of Union Graduate School Faculty Executive Committee, 2006-2009.
- Chair of Curriculum Committee, 2006-2010.
- Program Chair, MBA Management, 1993-2004.
- Chair of Tenurability Ad Hoc Committee, 2002.
- Program Chair, MSIA, 1993-2002.
- Chair of Union Athletic Facilities Committee, 2000-2001.
- Middle States Accreditation Sub-Committee looking at Intellectual Life in the Classroom, 1998.

- Sub-Committee of the Faculty Review Board to Investigate Administrative Simplifications to the Ad Hoc Tenurability Process, 1998.
- Tenurability Ad Hoc Committee, Fall 1997.
- Chair of the Social Sciences Division and Member of the Campus-Wide Planning and Priorities Committee, September 1993 to June 1996.
- GMI Library Liaison, 1995.

To the Local Community

- Board of Directors, Alplaus United Methodist Church, 2010 to present.
- Served on Board of Directors of Sofco-Mead, Inc., from 1991-1996.

IX. Professional Memberships

- Member, INFORMS Professional Society for Operations Research/Management Science, 1990-present.

X. Personal Development Activities

- Global Supply Chain Conference, Summer 2015, Clarkson University
- FDIB Conference, Summer 2012, Supply Chain track
- International Winter Simulation Conference, 1991, 2011.
- AACSB Integrated Curriculum Conference, Baltimore, November, 2007.
- Faculty Development in International Business, University of South Carolina, 2002.
- Summer Workshop on Experimental Learning in Operations Management at Cornell University, 1994, 1996.
- INFORMS Conference, 1994, 1998, 2004.
- POMS Conference, 1995.
- Union College Workshop on Collaborative Learning, 1993.