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ACADEMIC EMPLOYMENT

The University of Tennessee, Knoxville, TN – Haslam College of Business, Department of Business Analytics and Statistics (BAS)

Associate Professor, 2012 – present

Assistant Professor, 2006 – 2012

EDUCATION

University of Cincinnati, Cincinnati, OH

Ph.D. in Operations Management, July 2006

M.S. in Quantitative Analysis, December 2005

Academy of Economic Studies, Bucharest, Romania

M.S. in Project Management, July 2000

B.S. in Management Science, August 1999

RESEARCH

Research Interests

Healthcare Operations, Empirical Analysis of Operations Processes, Lean Operations, Supply Chain Modeling and Optimization, Implications of IT on Operational Performance.

Publications – Journal Articles

1. **Bichescu, B. C.**, and G. Polak. 2022. ARIMA Mining: Time Series Analysis and Forecasting by Mathematical Programming. *Computers and Operations Research*, forthcoming.
2. Bowers, M. R., **Bichescu, B. C.**, Polak, G., Gilbert, K., Bryan, N and D. Keene. 2022. The Maintenance Conversion Scheduling Problem: Models and Insights. *Naval Research Logistics*. 69 (7), 1027 – 1044.
3. Ma, Y., Bradley, R.V., Zaretski, R., **Bichescu, B.C.**, and A., Mockus. 2020. Coordinating Interdependencies in an Open Source Software Project: A Replication of Lindberg, et al. *AIS Transactions on Replication Research*. 6(1), paper 14.
4. Ma, Y., Mockus, A., Milhollin B, Zaretski, R., Bradley, R.V., and **B.C. Bichescu**. 2020. A Methodology for Analyzing Uptake of Software Technologies Among Developers. *IEEE Transactions on Software Engineering*.
5. In, J., Bradley, R.V., **Bichescu, B.C.**, and A., Smith. 2019. Breaking the Chain: GPO Changes and Hospital Supply Chain Performance. *International Journal of Production Economics*. 218 (12), 297 – 307.
6. In, J., Bradley, R. V., **Bichescu, B.C.** and C. Autry. 2019. Supply Chain Information Governance: Toward a Conceptual Framework. *International Journal of Logistics Management*. 30 (2), 506 – 526.

7. Bradley, R. V., E., Esper, T., In, J, Lee, K., **Bichescu, B. C.**, and T. A. Byrd. 2018. The Joint Use of RFID and EDI: Implications for Hospital Performance. *Production and Operations Management*. 27 (11), 2071-2090.
8. **Bichescu, B. C.**, Bradley, R.V., Smith, A. and W. Wu. 2018. Benefits and Implications of Competing on Process Excellence: Evidence from California Hospitals. *International Journal of Production Economics*. 202, 59-68.
9. **Bichescu, B. C.**, A. Raturi. 2015. Benchmarking the Implications of Plant-Closing Announcements. *International Journal of Production Economics*. **168**, 197-210.
10. Smith, A., Bradley, R. V., **Bichescu, B. C.**, and M. Tremblay. 2013. IT Governance Characteristics, Electronic Medical Records Sophistication, and Financial Performance In U.S. Hospitals: An Empirical Investigation. *Decision Sciences*. **44**(3), 483–516.
11. Edirisinghe, C. N., **Bichescu, B. C.**, and X. Shi. 2011. Equilibrium Analysis of Supply Chain Structures under Power Imbalance. *European Journal of Operational Research*. **214**(3), 568-578.
12. **Bichescu, B. C.**, Fry, M. J., and G. Polak. 2009. Workload Balancing Through Subcontracting: Applications of Fourier Analysis and Goal Programming. *Production and Operations Management*, **18**(1), 33–47.
13. **Bichescu, B. C.**, M. J. Fry. 2009. A Numerical Analysis of Supply Chain Performance under Split Decision Rights. *OMEGA - The International Journal of Management Science*, **37**(2), 358 – 379.
14. **Bichescu, B. C.**, M. J. Fry. 2009. Channel Power Analysis under Vendor-Managed Inventory and a General (Q, R) Inventory Policy. *OR Spectrum*, **31**(1), 195 – 228.

Publications – Book Chapters

1. Amreen, S., **Bichescu, B. C.**, Bradley, R., Dey, T., Ma, Y., Mockus, A., Mousavi, S., and R. Zaretski. 2018. A Methodology for Measuring FLOSS Ecosystems. In *Towards Engineering Free/Libre Open Source Software (FLOSS) Ecosystems for Impact and Sustainability*, Fitzgerald, B., Mockus, A., and M. Zhou (editors), Springer Publishing.
2. Bradley, R. V., **Bichescu, B. C.**, and J In. 2016. The Role of Information in Internal and External Integration. In *Achieving Supply Chain Integration: Connecting the Supply Chain Inside and Out for Competitive Advantage*, Autry., C.W, and Moon, M. (editors), Financial Times Press.
3. Edirisinghe, C. N., **Bichescu, B. C.**, and X. Shi. 2011. Optimal Selection of Supply Chain Coordination Contracts under Decision Hierarchy. In *Applications of Management Science*, Vol. 15, Lawrence, K. D. (editor), Emerald Publishing. (*refereed*)
4. **Bichescu, B. C.**, M. J. Fry. 2009. Vendor-Managed Inventory and the Effect of Channel Power. In *Supply Chain Planning*, Gunther, H.O., Meyr, H. (editors), Springer-Verlag, Berlin, 2009.

Papers under Review

1. **Bichescu, B. C.** and H. Hilafu. The direct and spillover effects of hospital-acquired conditions on hospital outcomes. Under 2nd review at *Manufacturing & Service Operations Management*.

2. **Bichescu, B.C.**, Bradley, R.V., Dobrzykowski, D., Lee, K, Pratt, R. *. Examining the nonlinear effects of EMR on experiential quality. Under 2nd review at *Journal of Operations Management*.
3. Jia, H., Hilafu, H. and **Bichescu, B. C.** Hospital-physician integration and cardiac surgery outcomes: A U-shaped relationship? Revising for 2nd review at *Production and Operations Management*.
4. Hilafu, H. and **Bichescu, B. C.** Do no harm: The effects of process variation and hospital-physician integration on hospital-acquired conditions. Revising for 2nd review at *Production and Operations Management*.

Working Papers

1. Bradley, R.V., **Bichescu, B.C.**, Dobrzykowski, D., and A. Smith. Exploring Healthcare Analytics: The Future Awaits What the Present Has Yet to Deliver. In preparation for submission to the *Decision Sciences Journal*.
2. Sava, M., **Bichescu, B. C.**, Scott, K., and S., Krivacek. Fostering employee participation in voluntary corporate wellness programs. In preparation for submission to *Production and Operations Management*.
3. Jia, H., **Bichescu, B. C.** and Hilafu, H. Physician collaboration and care efficiency in the emergency department. In preparation for submission to *Production and Operations Management*.

Conference Proceedings and Presentations

1. “Clinical Process Quality, Hospital-Physician Integration and Hospital-Acquired Conditions”, TCU Neeley Data & Analytics in Health Care, 2022 (with H Hilafu).
2. “The direct and spillover effects of hospital-acquired conditions on hospital outcomes”, INFORMS Healthcare, 2021 (with H Hilafu). Invited.
3. “Fostering employee participation in voluntary corporate wellness programs”, DSI annual meeting, 2020, virtual (with Sava, M., Scott, K., and S., Krivacek)
4. “Predictive Analytics for Inpatient Readmissions”, INFORMS annual meeting, Seattle WA, 2019 (with Jia, H and H. Hilafu). Invited.
5. “Diminishing Effects of EHRs in USA Hospitals”, INFORMS annual meeting, Seattle WA, 2019 (with Bradley, R.V., Dobrzykowski, D., Lee, K, Pratt, R). Invited.
6. “Competing on Quality: Evidence from Award-winning Hospitals in California”, INFORMS Healthcare, Boston MA, 2019 (with Wu, W. and R. Bradley). Invited.
7. “The Role of Physician Mobility on Hospital and Physician Performance”, POMS annual meeting, Washington DC, 2019.
8. “Predictive Analytics for Inpatient Readmissions”, POMS annual meeting, Washington DC, 2019 (with Jia, H and H. Hilafu)
9. “The Effects of EMR Stage Transitions on Patient Satisfaction: A Patient-centric Approach”, DSI Annual Meeting, Chicago IL, 2018 (with Bradley, R.V., Dobrzykowski, D., and Lee, K.)
10. “ARIMA Mining: Time Series Analysis and Forecasting by Mathematical Programming”, INFORMS International Meeting, Taipei, Taiwan, 2018 (with Polak, G.)

* Authors listed alphabetically for this manuscript due to equal contribution

11. "An Empirical Analysis of the Effects of Personnel Scheduling on Hospital Performance", INFORMS Annual Meeting, Houston TX, 2017 (with Bradley, R., In J. and J. Bell).
12. "Competing on Process Execution: Evidence from California Hospitals", INFORMS International, Hawaii HI, 2016 (with Wu, W., and R., Bradley).
13. "A Simulation Model for Analyzing a Dedicated Psychiatric Care Unit within an Emergency Department", INFORMS Healthcare, Nashville TN, 2015 (with Noon C., Murrell K, and Y. Balan).
14. "An Empirical Analysis of the Effects of Personnel Scheduling on Hospital Performance", INFORMS Healthcare, Nashville TN, 2015 (with Bradley, R., In J. and J. Bell).
15. "The Antecedents and Consequences of Plant Closing Announcements", POMS Annual Meeting, Washington DC, May 2015. (with A. Raturi).
16. "Implications of Channel Power on Supply Chain Performance", Industrial Engineering Research Seminar, The University of Tennessee, April 2015 (with C. Edirisinghe).
17. "Breaking the Chain: Analytics, Group Purchasing Organizations, and Supply Chain Performance". DSI Annual Meeting. Tampa, FL, November 2014. (with Joonhwan In, and R., Bradley).
18. "Competing on Quality: Evidence from Award Winning Hospitals in California". IFORS Meeting. Barcelona, Spain July 2014. (with Wu, W., and R., Bradley).
19. "The Implications of Operational Effectiveness on Competition: Evidence from California Hospitals", POMS Annual Meeting, Denver, CO, May 2013 (with Wei Wu and Randy Bradley).
20. "An Empirical Analysis of the Effects of an Integrated Scheduling Environment on Hospital Performance". Florida International University Research Seminar. Miami, Fl. April 2013. (with Bradley, R., Wu, W., and J. Bell).
21. "The Signaling Effects of Healthcare Quality Awards on Hospital Competition", INFORMS Annual Meeting, Phoenix, AZ, October 2012 (with Wei Wu and Randy Bradley).
22. "An Investigation of the Relationship Between Enterprise Architecture Maturity and Supply Chain Performance in U.S. Hospitals", Decision Sciences Annual Meeting, Boston, MA, November 2011 (with Randy Bradley, John Bell, and T. A. Byrd).
23. "The Signaling Effects of Healthcare Quality Awards on Hospital Competition", INFORMS Annual Meeting, Charlotte, NC, November 2011 (with Randy Bradley and Wei Wu).
24. "The Impact of EMR Capability on Hospital Performance", EurOMA Annual Conference, Cambridge, UK, July 2011 (with Randy Bradley and Wei Wu).
25. "The Implications of EMR Capability on Hospital Performance", QAOM Seminar Series, University of Cincinnati, April 2011 (with Randy Bradley and Wei Wu).
26. "The Impact of EMR Capability on Hospital Performance", INFORMS Annual Meeting, Austin, TX, November 2010 (with Randy Bradley and Wei Wu).
27. "The Effects of IT-based Scheduling Applications on Hospital Performance", INFORMS Southern Regional Conference, Huntsville, AL, April 2010 (with Randy Bradley and Wei Wu).
28. "Using Propensity Scores to Detect Abnormal Performance", INFORMS Annual Meeting, San Diego, CA, October 2009 (with Russel Zaretski and Melissa Bowers).

29. "The Antecedents and Consequences of Plant Closing Announcements", CORS/INFORMS Joint International Meeting, Toronto, Canada, June 2009 (with Amitabh Raturi).
30. "The Antecedents and Consequences of Plant Closing Announcements", POMS Annual Conference, Orlando, FL, May 2009 (with Amitabh Raturi and Yann Ferrand).
31. "Scheduling the Transition to Lean Depot Maintenance", INFORMS Annual Meeting, Washington D.C., October 2008 (with Melissa Bowers, Kenneth Gilbert and Mandyam Srinivasan).
32. "Supply Chain Performance with Power-Imbalanced Suppliers: Equilibrium and Stability", POMS Annual Conference, La Jolla, CA, May 2008 (with Chanaka Edirisinghe and Xinjie Shi).
33. "Workload Balancing Through Subcontracting", INFORMS Annual Meeting, Seattle, November 2007 (with Michael J. Fry and George Polak).
34. "Workload Balancing Through Subcontracting", SOMS Research Seminar Series, The University of Tennessee, September 2007.
35. "Implications of Channel Power on Supply Chain Performance", INFORMS International Puerto Rico, July 2007 (with Michael J. Fry).
36. "Applications of Fourier Analysis and Goal Programming to Workload Balancing", INFORMS Annual Meeting, Pittsburgh, November 2006 (with Michael J. Fry and George Polak).
37. "Workload Balancing Through Subcontracting: Applications of Fourier Analysis and Goal Programming", POMS Annual Conference, Boston, May 2006 (with Michael J. Fry and George Polak).
38. "Channel Power Analysis under Vendor-Managed Inventory and a General (Q, R) Inventory Policy", INFORMS Annual Meeting, San Francisco, November 2005 (with Michael J. Fry).
39. "Supply Chain Performance under General (Q, R) inventory policies", POMS Annual Conference, Chicago, April 2005 (with Michael J. Fry).
40. "Supply Chain Performance and the effect of Channel Power when Order Quantity and Shipment Frequency are Decision Variables", INFORMS Annual Meeting, Denver, October 2004 (with Michael J. Fry).
41. "Shelf Space Allocation for a Single Retailer and Multiple Suppliers," INFORMS Annual Meeting, Atlanta, October 2003 (with Michael J. Fry and Emmanuel Fernandez).

Research Projects and Grants

1. "OSCAR - Open Source Supply Chains and Avoidance of Risk: An evidence based approach to improve FLOSS supply chains", National Science Foundation (NSF), with Bradley, R.V., Mockus, A., and R.L., Zaretski. \$1.3 million, 2016 – 2020.
2. University of Tennessee Center for Business and Engineering of Advanced Manufacturing (BEAM), with Jin, M., Shylo, O., Willems, S., and A. Yu. 2017 – 2019.
3. "Production Planning and Scheduling in the MRO Backshops", part of the US Air Force Transformation Project, with Bowers, M., Srinivasan, M., and K., Gilbert. June 2007 – 2012.

4. “Process Improvement for Services”, United States Air Force, with Bowers, M., Srinivasan, M., and K., Gilbert. 2013.

TEACHING

Teaching Interests

Management of Lean Operations, Supply Chain Management, Healthcare Operations, Decision Analysis, Simulation Modeling, Project Management, Operations Planning and Scheduling, Stochastic Processes, Optimization.

Teaching Experience

The University of Tennessee

MS 550: Business Analytics Capstone (M.Sc.)

Fall 2012, 2015 – 2021, Spring 2014, (team-taught)

MS 532: Simulation and Decision Analytics (M.Sc.)

Spring 2011 – 2014. Instructor evaluation: 4.7/5.0

MS 532: Stochastic Models in Management Science (M.Sc.)

Spring 2008, 2009. Instructor evaluation: 4.5/5.0

BZAN 546: Simulation Modeling and Analysis (M.Sc.)

Spring 2015 – 2022. Instructor evaluation: 4.7/5.0

BZAN 505 – Operations Management (MBA)

Fall 2007 – 2009 (team-taught), Spring 2013, and Fall 2013 – 2022

Instructor evaluation: 4.6/5.0

BZAN 507 – Supply Chain Models (MBA)

Spring 2021 – 2022 (team-taught). Instructor evaluation: 3.8/5.0

MS 681: Supply Chain Analytics (M.Sc.)

Fall 2014, Team-taught

MS 681: Advanced Inventory Modeling (Ph.D.)

Spring 2007, Instructor evaluation: 4.3/5.0

BUAD 341: Lean Operations (undergraduate)

Fall 2006 – 2007, 2009 – 2012, 2014 – 2022, Spring 2007, 2009 – 2012, 2015 – 2018

Instructor evaluation: 4.4/5.0

Graduate Student Instructor, University of Cincinnati

OM 385: Introduction to Operations Management

Summer 2003, Instructor evaluation: 3.5/5.0

OM 480: Project Management

Spring 2003 – 2005 and Fall 2005, Instructor evaluation: 6.8/8.0

PROFESSIONAL EXPERIENCE

Consultant, as part of the Center for Productivity Improvement (CPI), University of Cincinnati, Cincinnati, OH, 2005-2006

Coordinator of Registration Services, Romanian Copyright Office, Bucharest, Romania, March 2000 – August 2001

Business Analyst (*intern*), Bere Alutus S.A., Rm. Valcea, Romania, Summer 1998

Business Analyst (*intern*), Consint S.A., Barlad, Romania, Summer 1997

LEADERSHIP AND SERVICE

Co-Director, MSc in Business Analytics program, 2022 – present

Co-Program Chair, POMS Annual Conference, Orlando 2022

Chair, Amazon Professor Search Committee, Fall 2021

BAS Lecturer Search Committee Member, 2020 – 2021

BAS Director of Non-Degree and Special Programs, 2020

Co-Program Chair, INFORMS Annual Conference, Nashville 2016

HCB Undergraduate Core Curriculum Committee

BAS PhD Committee, 2015 – 2017

Faculty Advisor, M.Sc. in Business Analytics program, 2015 – 2020

Faculty advisor for the UT National Black MBA case competition, Fall 2013 – 2019

Chair, BAS Junior Faculty Search Committee, Fall 2014

BAS Department Head Search Committee, Spring 2014

Dean's Faculty Advisory Council, 2014 – 2016

Business Analytics Track Co-Chair, Decision Sciences Annual Meeting, November 2013, Baltimore, MD

SOMS Business Analytics Curriculum Committee

SOMS Outreach Committee

SOMS Faculty Search Committee

SOMS Peer Review of Teaching Committee

SOMS Software Committee

Session Chair, INFORMS National Conference, October 2009, San Diego, CA

Session Chair, INFORMS National Conference, November 2007, Seattle, WA

Session Chair, INFORMS International, July 2007, Puerto Rico

Session Chair, POMS National Conference, April 2005, Chicago, IL

Vice-president and Secretary, Univ. of Cincinnati INFORMS student chapter, 2003 - 2005

Workshop Aide, First and Second Annual Workshop on Hot Topics in Supply Chain Analytics, Practice, and Technology, Cincinnati, 2004 and 2005

Secretary and Treasurer, Romanian Student Association (RoSA), University of Cincinnati, 2002-2004.

Ad-hoc reviewer:, *Journal of Operations Management, Production and Operations Management, Decision Sciences, International Journal of Production Economics, INFORMS Journal on Applied Analytics, European Journal of Operational Research, etc.*

HONORS AND AWARDS

MSBA Faculty Excellence in Teaching Award, 2018
MSBA Outstanding Commitment to Students Award, 2015, 2017
Richard C. Reizenstein Outstanding Commitment to Students Award finalist, 2016
MBA First Year Faculty Award, 2015
Allen H. Keally Outstanding Teaching Award Nominee, College of Business, University of Tennessee, 2010 – 2011, 2015, 2016
Chancellor's Excellence in Teaching Award Nominee, University of Tennessee, 2013
INFORMS Young Practitioner Connection Member, Nominated 2009
POMS Emerging Scholar, May 2008, La Jolla, CA
University of Cincinnati Graduate and Research Assistant
University of Cincinnati Graduate Summer Research Fellow, 2005
INFORMS Future Academician Colloquium, November 2005, San Francisco, CA
POMS Doctoral Consortium, April 2005, Chicago, IL
DSI Doctoral Consortium, November 2004, Boston, MA
CIBER Doctoral Consortium, November 2003, Purdue University

PROFESSIONAL AFFILIATIONS

Institute for Operations Research and the Management Sciences (INFORMS)
Production and Operations Management Society (POMS)
Decision Sciences Institute (DSI)