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CURRICULUM VITAE

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BESTE KUCUKYAZICI

Accounting & Information Systems and Supply Chain Management,  
Eli Broad College of Business, Michigan State University

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East Lansing, MI 48864  
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RESEARCH INTERESTS

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- \* **Context:** Socially-responsible supply chains, Data-driven practice-focused research with a particular emphasis on healthcare analytics.
- \* **Methodology:** Analytical stochastic modeling, Dynamic programming, Simulation, Econometric modeling, Machine learning.

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ACADEMIC & PROFESSIONAL EXPERIENCE

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- \* Assistant Professor, Departments of Accounting & Information Systems and Supply Chain Management, Eli Broad College of Business, Michigan State University, 2019-Present
- \* MD-MBA Program Director, *McGill University*, 2016 – 2019.  
Co-Chair (Management), Working group for the design and launch of graduate certificate program on healthcare management (jointly with McGill's Faculty of Medicine).
- \* Faculty Fellow, Marcel Desautels Institute for Integrated Mgmt., *McGill University*, 2013-2015.
- \* Assistant Professor, Operations Management, *McGill University*, 2012 – 2019.<sup>1</sup>
- \* Research Associate, *St. Mary's Hospital Research Center*, 2012- 2019.
- \* Research Affiliate, Center for Transportation and Logistics, *The Massachusetts Institute of Technology (MIT)*, 2009 – present.
- \* Assistant Professor, Supply Chain Management, *MIT-Zaragoza International Logistics Program*, 2009 – 2012.
- \* Visiting Scholar, Decision, Risk and Operations Division, *Columbia Business School*, 2008-2009.
- \* System Analysis Specialist, *Tani Iletisim Inc., Koc Holding*, 2002-2004.

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<sup>1</sup> On prenatal medical leave from November 2014 to August 2015 and maternity leave from August 2015 to August 2016.

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**EDUCATIONAL BACKGROUND**


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- \* Ph.D. in *Operations Management*, 2010.  
McGill University
- \* *CIHR Health Informatics PhD/Postdoc Strategic Training Program*, 2007.  
McGill University
- \* *Master of Science in System Engineering*, 2002.  
Yeditepe University, Department of Systems Engineering, Istanbul, Turkey
- \* *Bachelor of Science in Industrial Engineering*, 2000.  
Marmara University, Department of Industrial Engineering, Istanbul, Turkey

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**REFEREED JOURNAL PAPERS**


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The name of doctoral student/postdoctoral fellow is underlines.

- [J1] Fainman E.Z. and Kucukyazici B. Design of Financial Incentives and Payment Schemes in Healthcare Systems. Accepted, *Socio-Economic Planning Science*, 2020.
- [J2] Kucukyazici B., Zhang Y., Ardestani-Jaafari A and Song, L. Incorporating Patient Preferences in the Design and Operation of Cancer Screening Facility Networks. Accepted, *European Journal of Operations Research*, 2020.
- [J3] Abitbol J., Munir A., How J., Lau S., Salvador S., Kogan L., Kessous R., Breitner L., Frank R., Kucukyazici B., Gotlieb W.H. The Shifting Trends Towards a Robotic-Assisted Surgical Interface: Clinical and Financial Implications. Accepted, *Health Policy and Technology*, 2020.
- [J4] Zhu E., Kucukyazici B. and Maizi Y. Designing Observation Units for Heart Failure Patients: Capacity and Patient Flow Considerations. *Service Science*, 2019, 12(1): 8-25.
- [J5] Chen W., Kucukyazici B. and Saenz, M.J. Redesign of Extended Producer Responsibility and Its Impact on the OEM's Recovery Strategies. *International Journal of Production Economics*, 2019, 218: 228-244
- [J6] Abitbol J., Gotlieb W., Zeng X., Ramanakumar A.V., Kessous R., Kogan L., Pare-Miron V., Rombaldi M., Salvador S., Kucukyazici B., Brin S., How J., Lau S. Incorporating robotic surgery into the management of ovarian cancer after neoadjuvant chemotherapy. *International Journal of Gynecological Cancer*, 2019, 29: 1341-1347.

\* *Lead Article chosen by the Editor*

- [J7] Samiedaluie, S., Kucukyazici, B., Verter, V. and Zhang, D. Managing Patient Admissions in a Neurology Ward, *Operations Research*, 2017, 65(3): 635–656.
- [J8] Ibrahim, R., Kucukyazici, B., Verter, V., Gendreau, M. and Blostein, M. Designing Individualized Treatment: An Application to Anticoagulation Therapy, *Production and Operations Management*, 2016, 25(5): 902-918.

\* *selected as one of the 8 papers to be presented in Healthcare Operations Management Special Interest Group Meeting of MSOM Annual Conference, Fontainebleau, 2013.*

- [J9] Chen, W., Kucukyazici, B., Verter, V. and Saenz, M.J. Supply Chain Design for Unlocking the Value of Remanufacturing Under Uncertainty, *European Journal of Operational Research*, 2015, 247(3): 804-819  
\* selected as one of the 8 papers to be presented in Sustainable Operations Special Interest Group Meeting of MSOM Annual Conference, Seattle, 2014
- [J10] Kucukyazici, B., Verter V. and Mayo N. An Analytical Framework for Designing Community-Based Care Delivery Processes for Chronic Diseases. *Production Operations Management*, 2011, 20(3): 474-488
- [J11] Kucukyazici, B., Verter V., Nadeau L. and Mayo N. Improving Post-Stroke Health Outcomes: Can Facilitated Care Help? *Health Policy*, 2009, 93: 180-187
- [J12] Kucukyazici, B., Ozdamar, L., and Pokharel, S. Developing concurrent investment plans for power generation and transmission. *European Journal of Operational Research*, 2005, 166(2): 449-468
- [J13] Verter V., Kucukyazici, B. and Mayo N. On the Significance of Reducing the Need for Stroke Patients to Visit the Emergency Department. *Clinical and Investigative Medicine Journal*, 2005, 23(6): 371-375
- [J14] Ozdamar, L., Ekinici, E., and Kucukyazici, B. Emergency Logistics Planning in Natural Disasters. *Annals of Operations Research*, 2004, 129: 217-245

#### PAPERS IN REVIEW/UNDER REVISION

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- [Js1] Ardestani-Jaafari A. and Kucukyazici B. Improving Patient Transfer Protocols for Regional Stroke Networks. Status: under minor revision, *Management Science*
- [Js2] Zhu C. and Kucukyazici B. On Reducing the Medically Unnecessary Cesarean Deliveries: The Design of Payment Models for Maternity Care. Status: under revision, invited to resubmit to *Management Science*
- [Js3] Abitbol J., Kucukyazici B., Brin S., Lau S., Salvador S., Ramanakumar A.V., Kessous R., Kogan L., Fletcher J.D., Pare-Miron v., Liu G., Gotlieb W.H. Impact of Robotic Surgery for Ovarian Cancer on In-Hospital and Post-Discharge Patient Trajectories and Resource Use Intensity. Status: under review, *International Journal of Gynecological Cancer*.

#### WORKING PAPERS

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- [W1] Zhu C., Kucukyazici B. and Mah R. Designing Specialist Response Policies in Emergency Departments. Under revision to resubmit, *Operations Research*.
- [W2] Emergency Medical Services Protocols for Regional System of Care: On the Trade-off between Transportation and Boarding Time; with A. Ardestani-Jaafari and P. Hosseinpour. Target journal: *Manufacturing & Service Operations Management*.
- [W3] The Spillover Effect of Boarding Congestion on Emergency Departments; with Z. Jalali and M. Gumus. Target journal: *Management Science*.

- [W4] Managing Regional Hospital Resources Amid COVID-19 for Improving Health Outcomes; with A. Nair, A. Georghiou and V. Verter. Target journal: *Production Operations Management* (accepted extended abstract, invited for full paper submission).
- [W5] Higher the Workload Higher the Resource Use? The Impact of Physician Workload on Referral, Imaging and Test Requests in Emergency Departments; with E. Belzei and R. Mah. Target journal: *Academics of Emergency Medicine*.

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#### REFEREED BOOK CHAPTERS

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- [B1] Kucukyazici B. and V. Verter, Managing Community-based Care for Chronic Diseases: The Quantitative Approach, In G.S. Zaric (Ed.), *Operations Research and Health Care Policy*, Springer Publishers, New York, 2013: 71-90.
- [B2] Konrad R., Kucukyazici B. and Lawley M. Using Patient Flows to Examine Hospital Operations. *Management Engineering for Effective Healthcare Delivery: Principles and Applications*; edited by Alexander Kolker and Pierce Story, IGI Global, 2011: 402-417.
- [B3] Kucukyazici B., Keshavjee K., Bosomworth J., Copen J., Lai J. Best Practices for Implementing Electronic Health Records and Information Systems. *The Human and Social Side of Health Information Systems*, edited by Dr. Andre W. Kushniruk and Prof. Elizabeth Borycki, Idea Group Publishing, PA; 2008; pp. 120-138.

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#### WORK-IN-PROGRESS PAPERS<sup>2</sup>

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- [WIP1] Kucukyazici B. and Ulenjin Fusun. An Analytical Framework for Comparative Analysis of Emergency Department Efficiency, status: currently working on model formulation.
- [WIP2] Kucukyazici, B., Verter V. and Blostein M. Designing Optimal Therapy for Stroke Prevention from Atrial Fibrillation.

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#### REFEREED CONFERENCE PROCEEDINGS

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- [CP1] Maizi, Y., Zhu, C. and Kucukyazici, B., 2018, March. Policy Evaluation of a Potential Observation Unit (OU) for Acute Decompensated Heart Failure (ADHF) Patients. *International Journal of Qualitative Methods*, 17(1): 31
- [CP2] Chen W., Kucukyazici B., Verter V and Saenz M.J. The Impact of Uncertainty on Recovery Strategies: A Realistic Case Study, *Manufacturing & Service Operations Management Annual Conference*, France, 2013
- [CP3] Kucukyazici B., Chen W. and Verter V. The Impact of Uncertainty on Closed-Loop Supply Chains. *Proceedings of 5th International Workshop on Freight Transportation and Logistics ODYSSEUS*, 2012
- [CP4] Kucukyazici B., Green G. and Verter V. Improving Stroke Outcomes through Operational Policies. *MSOM Annual Conference*, Haifa, 2010.  
(Selected as one of the 6 out of 33 papers to be presented in the *Healthcare Operations Management Special Interest Group Meeting of Manufacturing & Service Operations Management*)

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<sup>2</sup> The titles of the papers are tentative.

- [CP5] Kucukyazici B., Verter V., and Blostein M. Clinical Decision Making from Prevention of Stroke from Atrial Fibrillation. *Proceedings of 32<sup>nd</sup> Annual Meeting of the Society for Medical Decision Making*, Toronto, 2010.  
(Selected for oral presentation where the acceptance rate is around 15%)
- [CP6] Khananian A., Kucukyazici B. and Verter V. Dealing with unscheduled patients in an outpatient clinic: a simulation modeling approach. *McGill Journal of Medicine*, 2008, 11(1).
- [CP7] Keshavjee K., Bosomworth J., Copen J., Kucukyazici B., Lai J., Lilani R., Holbrook AM. How to Successfully Implement an EMR in Small Clinics using Best Practices from a Systematic Review. *Proceedings of Information Technology and Communications in Health (ITCH)*; 2007: 328-338
- [CP8] Keshavjee K., Bosomworth J., Copen J., Kucukyazici B., Lai J., Lilani R., and Holbrook AM. Development of a Multi-Theoretical Electronic Medical Record Implementation Framework. *E-Health Conference*, Quebec City, 2007
- [CP9] Keshavjee K., Bosomworth J., Copen J., Kucukyazici B., Lai J., Lilani R., Holbrook AM. EMR Implementation Best Practices: A Systematic Review. *American Medical Informatics Association (AMIA) Symposium Proceedings*, 2006: 982.
- [CP10] Keshavjee K., Bosomworth J., Copen J., Kucukyazici B., Lai J., Lilani R., and Holbrook AM. Implementation of Electronic Medical Records in Small Family Physician Practices. *CHPSTP Workshop*, Calgary, 2006
- [CP11] Keshavjee K., Bosomworth J., Copen J., Kucukyazici B., Lai J., Lilani R., Holbrook AM. Best Practices in EMR Implementation: A Systematic Review. *The Eleventh International Symposium on Health Information Management Research (iSHIMR)*; 2006: 233-246
- [CP12] Kucukyazici B., Verter V., Nadeau L. and Mayo N. A Scenario-Based Approach to the Improvement of Healthcare Delivery to Stroke Patients in the Community. *Proceedings of Operational Research Applied to Health Services (ORAHS) Annual Conference*, 2005: 253-264.

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#### EXTERNAL & INTERNAL GRANTS TO BE SUBMITTED

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- [GP1] MSU Foundation  
*Project Title:* Mitigating the Societal Impact of Pandemics: A Systems Approach for Unraveling the Health and Economic Outcomes (invited for full application with a deadline of Feb 25, 2021)  
*Role:* Co-Investigator

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#### EXTERNAL & INTERNAL GRANTS

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Raised a total of \$488,000 as a **Principal Investigator** from grant competitions.

- [G1] Eli Broad College of Business, MSU, Summer Research Award  
*Project Title:* Emergency Medical Services Protocols for Regionalized Systems of Care: On the Trade-Off Between Transportation and Boarding Times  
*Role:* **Principle Investigator**  
*Length:* 2020  
*Total Amount:* \$19,000

- [G2] Fonds de Recherche du Quebec- Sante (FRSQ), Operating Grant on Emergency Services Issues and Continuum of Care.  
*Project Title:* Looking beyond the walls of the emergency departments for the delays in the emergency departments: modeling associations with the hospital and post-acute care and exploring the promising interventions  
*Role:* **Principle Investigator**  
*Length:* 2016-2019  
*Total Amount:* \$269,479
- [G3] Rossy Cancer Network  
*Project Title:* Improving the trajectory of care for ovarian cancer patients, with focus on institutional resource use and patient-centered well-being  
*Role:* Co-Investigator (PI: Dr. Walter Gotlieb)  
*Length:* 2015-2016  
*Total Amount:* \$10,000
- [G4] Fonds Québécois de la Recherche sur la Société et la Culture (FQRSC) New Researcher Grant  
*Project Title:* Connecting Sustainability to Profitability: Design of Integrated Closed-loop Supply Chains  
*Role:* **Principal Investigator.**  
*Length:* 2014 – 2017.  
*Total Amount:* \$39,600 (Share: 100%)
- [G5] Canadian Institute of Health Research (CIHR), SPOR Networks  
*Project Title:* The Quebec Knowledge-1 Network: A learning community for primary and integrated care  
*Role:* Co-investigator (Co-PIs: Jeannie Haggerty and Antoine Groulx)  
*Length:* 2014-2015.  
*Total Amount:* \$150,000
- [G6] Marcel Desautels Institute of Integrated Management Fellowship, McGill University, In the category of “Research”  
*Project Title:* A Regional/Provincial Approach for Understanding and Tackling ED Crowding  
*Role:* **Principal Investigator**, with a multidisciplinary team of Prof Antonio Ciampi (Medicine) as well as Dr. Rick Mah and Mr. Eric Belzile (St. Mary’s Hospital).  
*Length:* 2014 – 2016.  
*Total Amount:* One course release and \$4,650 (Share: 100%).
- [G7] St. Mary’s Research Center, New Investigator’s Research Award  
*Project Title:* Operations Research Applications to Improve Healthcare Operations  
*Role:* **Principal Investigator.**  
*Length:* 2012 – 2015.  
*Total Amount:* \$75,000 (Share: 100%).
- [G8] Start-up Grant, Desautels Faculty of Management, McGill University  
*Role:* **Principal Investigator.**  
*Length:* 2012 – Present.  
*Total Amount:* \$60,000 (Share: 100%).
- [G9] McGill University, Paper Presentation Grant  
*Role:* Principal Investigator

*Length:* 2012

*Total Amount:* \$1,500 (Share: 100%).

[G10] Social Sciences and Humanities Research Council (SSHRC), Travel Grant

*Role:* Principal Investigator.

*Length:* 2008

*Total Amount:* \$2,000 (Share: 100%).

[G11] McGill University, The Alma Mater Student Travel Grant

*Role:* Principal Investigator.

*Length:* 2007

*Total Amount:* \$2,000 (Share: 100%).

#### INVITED SEMINARS

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- [I1] Consortium of 16 schools – in the disciplines of operations management (OM), decision sciences and information systems- Virtual Friday Seminar Series, scheduled to April 2021
- [I2] Michigan State University, Department of Accounting and Information Systems, April 2019.
- [I3] Michigan State University, Department of Supply Chain Management, March 2019.
- [I4] McMaster University, DeGroote School of Business, May 2016.
- [I5] Concordia University, Industrial and Mechanical Engineering, November 2016
- [I6] Sabanci University, School of Business, Istanbul, Turkey, December 2015
- [I7] University of Calgary, School of Business, Calgary, Alberta, September 2014
- [I8] Bilkent University, Department of Industrial Engineering, Ankara Turkey, 2013
- [I9] University of Toronto, Rotman School of Business, Toronto, Ontario, 2012
- [I10] University of Waterloo, Department of Management Science, Waterloo, Ontario 2012
- [I11] St. Mary's Hospital, Montreal, Quebec, 2012
- [I12] McGill University, Desautels Faculty of Management, Montreal, Quebec, 2012
- [I13] Institute of Aragon Health Science, Zaragoza, Spain, 2010
- [I14] HEC Montreal, Montreal, Quebec, 2009
- [I15] IE Business School, Madrid, Spain, 2009
- [I16] Boston College, Carroll School of Management, Boston, Massachusetts, 2009
- [I17] MIT-Zaragoza, Zaragoza, Spain, 2009
- [I18] ESSEC Business School, Cergy-Pontoise, France, 2009
- [I19] University of Florida, Industrial Engineering Department, Gainesville, Florida, 2009
- [I20] University of Arkansas, Industrial Engineering Department, Fayetteville, Arkansas, 2009
- [I21] Sabanci University, Industrial Engineering Department, Istanbul, Turkey, 2009
- [I22] University of Iowa, Mechanical and Industrial Engineering Department, Iowa City, Iowa, 2008

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**INVITED TUTORIALS**


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- [T1] How to Develop and Use Micro-Simulations for Design of the Public Health Interventions, *Institute of Health and Social Policy*, McGill University, Montreal, 2012
- [T2] Optimization of the Design and Delivery of Chronic Care through Operations Research, *NSERC CREATE Program on Health Care Operations Management and Information System Summer Academy*, Toronto, 2012
- [T3] The Role of Operations Research through the Journey of Chronic Care, *Ph.D. Workshop at Annual Meeting of Operational Research Applied to Health Services (ORAHS)*, Toronto, 2008

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**AWARDS AND FELLOWSHIPS**


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- \* Principle's Dissertation Award, *McGill University*, 2007
- \* Silver Poster Award, National Poster Competition, *Canadian Institute of Health Research (CIHR)*, 2007
- \* Honorable Mention, *INFORMS Bonder Scholarship for Applied Operations Research in Health Services*, 2007
- \* Canadian Delegate, EURO Summer Institute XXIII: OR in Healthcare, 2005, selected and nominated by *Canadian Operations Research Society*
- \* Graduate Student Conference Support Award, *Canadian Operations Research Society*, 2005
- \* Entrance Fellowship, Desautels Faculty of Management *McGill University*, 2004-2005
- \* Top graduation and Dean's honor list, Graduate School, *Yeditepe University*, 2002
- \* Graduate Studies Scholarship, *Yeditepe University*, 2000-2002
- \* Dean's honor list, *Marmara University*, Engineering Faculty, 1996-2000

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**TEACHING EXPERIENCE**


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- \* Manufacturing Planning and Quality Control, undergraduate level core course for supply chain management concentration, Michigan State University
- \* Business Analytics, MBA elective course, Michigan State University
- \* Guest lecturer on analytics/AI/machine learning, Logistics Emerging Thought Seminar, PhD course, Michigan State University
- \* Operations Management, BCom core course, McGill University
- \* Operations and Supply Chain Analytics, BCom and MBA elective course, McGill University
- \* Healthcare Systems, MBA elective course, McGill University.
- \* Economic Evaluation for Healthcare, International Masters for Health Leadership Program, McGill University.
- \* Business Statistics, Graduate level core course, MIT-Zaragoza International Logistics Program.
- \* Analytical Models, Graduate level core course, MIT-Zaragoza International Logistics Program.



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**COURSE DEVELOPMENT**


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- \* Designed of Business Analytics course featuring case studies, lectures, in-class simulation game, guest speakers and in-class problem analysis, Michigan State University
- \* Re-designed of Manufacturing Planning and Quality Control course featuring case studies, lectures, in-class simulation games, guest speakers and in-class problem analysis, Michigan State University
- \* Re-designed of MGCR 472 Operations Management course featuring case studies, lectures, in-class games, guest speakers and in-class problem analysis, McGill University
- \* Re-designed of BUSA 698 Healthcare Systems course featuring case studies, lectures, guest speakers, in-class debates and term papers, McGill University

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**UNDERGRADUATE SUPERVISION**


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- \* Mei Grudson, MDIIM Student Fellowships, “Analysis of Patient Flows in a Surgical Unit at CHUM”, Winter 2019.
- \* Jordana Cohen, BUSA 400- Research Paper- 3 credits, Sole supervision, Fall 2013

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**MASTER LEVEL SUPERVISION**


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\* **McGill University, Sole Supervision**

Research Papers and Independent Studies

- Tawfeeq Altherwi, International Masters for Health Leadership, Final Paper, Fall 2018&Winter2019
- Saikat Roy, MBA, MGCR 610- Research Paper - 6 credits, Fall 2017 & Winter 2018
- Rishil Gandhi, MBA, MGCR 610- Independent Study - 3 credits, Fall 2017
- Jason Freder, MD-MBA, INDS 123 Research Paper, McGill’s School of Medicine, Summer 2014
- Ryan Hartley, MD-MBA, MGCR 610- Research Paper- 6 credits, Winter & Summer 2014
- Warren Sateren, MBA, MGCR 610- Research Paper - 3 credits, Winter 2013

Healthcare Management Capstone Projects

- Shawn Errunza, “Business and Technology Innovation for Healthcare: The Role of Artificial Intelligence in Healthcare Services, Winter 2019.
- Brianne Wartman, “Supervised Consumption Sites: A Clinical and Business Perspective on This Harm Reduction Strategy in Canada, Winter 2019
- Nisha Gupta, “The organizational impact of the underrepresentation of women in medical leadership positions and methods proposed to address the gender gap”, Winter 2019.
- Joseph Kam, “Assessment of cost-effectiveness strategies to reduce surgical wait times in Canada”, Winter 2019.
- Colins Oghor, “Creating a Financially Sustainable External Quality Assurance Program to Improve Accuracy of Tuberculosis Diagnosis in India’s Private Health Sector”, Winter 2018.
- Ryan Hartley, “Quality Improvement Initiatives in Family Medicine Clinics”, Winter 2018.
- Daniel Perets, “Diabetic Retinopathy: Finding the Ideal Screening Intervention for Urban

Communities”, Winter 2018.

- Jason Freder, “The Effects of Lifestyle Intervention on Patient’s with Impaired Fasting Glucose; a Review on the Benefits and Cost Effectiveness of Prescribing Exercise, and How Canadian Companies are Promoting Healthy Living”, Winter 2017.
- Sam Wasserman, “The Fracture Clinic at Brantford General Hospital”, Winter 2016

Reading Courses

- Ashwini Srinivas, M.Sc. in Dentistry, DENT 681 Readings in Health Services Research, Fall 2018
- Joydeep Arneja, M.Sc. in Dentistry, DENT 681 Readings in Health Services Research, Fall 2017

Practicums, Internships and Fellowships

- Ishata Arora, MBA, MDIIM Student Fellowship, “Analysis of Patient Flows in a Surgical Unit at CHUM”, Winter 2019
- Natasha Bakesh, MBA, BUSA 651- Practicum- 6 credits, Summer & Fall 2014
- Ryan Hartley, MD-MBA, BUSA 650 Summer Internship, St. Mary’s Hospital, Summer 2014
- Collins Oghor, MD-MBA, BUSA 650 Summer Internship, Red Cross Canada, Summer 2014
- Jason Freder, MD-MBA, BUSA 650 Summer Internship, Montreal Chest Institute, Summer 2013

\* **MIT-Zaragoza International Logistics Program, Master Thesis Supervision**

- Hugo Castro, sole supervision, 2011-2012
- Yunan He, co-supervised with Prof. David Gonzalez, 2011-2012
- Susan Hanson, co-supervised with Prof. David Gonzalez, 2011-2012
- Jinrong Wei, sole supervision, 2010-2011
- Katharina Weber, co-supervised with Prof. Cagri Gurbuz, 2010-2011
- Noelle Thomas, co-supervised with Prof. Cagri Gurbuz, 2010-2011
- Sumeet Uday, co-supervised with Prof. Cagri Gurbuz, 2010-2011
- Roberto Martinez, co-supervised with Prof. Cagri Gurbuz, 2010-2011

**PH.D. LEVEL SUPERVISION**

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- \* Zahra Jalali, Ph.D. student, Operations Management, Desautels Faculty of Management  
Sole supervision, 2018-2019; Co-supervision: 2019-  
Awarded Doctoral Research Scholarship for International Students, Fonds de recherche du Québec - Société et culture (FRQSC). (Funded: 2020 – 2021)
- \* Cheng Zhu, Ph.D. student, Operations Management, Desautels Faculty of Management.  
Sole supervision, 2012-2017.  
Awarded Doctoral Research Scholarship, Fonds de recherche du Québec - Société et culture (FRQSC). (Funded: 2016 – 2017)  
Thesis Title: Three Essays on Data-Driven Models in Health Care Operations Management  
Current position: Assistant Professor, Texas State University
- \* Wenyi Chen, Ph.D. student, Logistics and Supply Chain Management, MIT-Zaragoza International Logistics Program. Primary supervisor, 2010-2015  
Thesis Title: Making Sustainability Profitable: The Impact of Closed-loop Supply Chain Design and Regularity Schemes on Stakeholders.

Current position: Senior Logistics Analyst, Tata Steel Europe.

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**POSTDOCTORAL LEVEL SUPERVISION**

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- \* Sanket Bhat, Postdoctoral Fellow, Operations Management, Desautels Faculty of Management  
Sole supervision, 2014-2015  
Current Position: Senior Logistics Analyst, GE Global Research
- \* Amir Jafari-Ardestani, Postdoctoral Fellow, Operations Management, Desautels Faculty of Management  
Sole supervision, 2016-2019  
Current position: Assistant Professor, University of British Columbia

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**PH.D. ORAL DEFENSE COMMITTEE MEMBERSHIPS**

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- \* Internal Member, Ghazaleh Agil, Information Systems, 2019
- \* Internal Member, Michael Klein, Operations Management, 2017
- \* Internal Member, Manaf Zargoush, Operations Management, 2016
- \* Pro-dean, Daina Crafa, Montreal Neurological Institute, 2017
- \* Pro-dean, S. Mirkhalaf Valashani, Department Mechanical Engineering, 2013
- \* Pro-dean, Rina Zelman, Department of Biomedical Engineering, 2012

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**MASTERS AND PH.D. COMMITTEE MEMBERSHIPS**

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- \* Ph.D. Research Committee, Faculty of Medicine, McGill University  
Katya Loban, supervised by Prof. Jeannie Haggerty, *Family Medicine*, 2014-2018
- \* Ph.D. Comprehensive Exam- Methodology Requirement, Desautels Faculty of Management, McGill University  
Hossein Hejarfian, *Operations Management*, 2019  
Zahra Jalali, *Operations Management*, 2019  
Aysun Mutlu, *Operations Management*, 2019  
Fan E, *Operations Management*, 2017  
Elcin Ergin, *Operations Management*, 2015  
Thang Doan, *Operations Management*, 2015
- \* Ph.D. Phase II Committee, Desautels Faculty of Management, McGill University  
Ali Cetin Suyabatmaz, *Operations Management*, 2013- 2016  
Feyza Guliz Sahinyazan, *Operations Management*, 2013- 2016  
Martin Cousineau, *Operations Management*, 2013- 2016  
Saied Samiedaluie, *Operations Management*, 2010- 2014
- \* Ph.D. Comprehensive Exam (Supply Chain Management and Logistics, Methodology Requirement):  
Wenyi Chen, MIT-Zaragoza International Logistics Program, 2011  
Gerardo Paloya, MIT-Zaragoza international Logistics Program, 2011

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**INSTITUTIONAL SERVICES**


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\* **University Level:**

**Guest Speaker**, Info Session on “How to be Successful for Fonds Québécois de la Recherche sur la Société et la Culture (FQRSC)’s Start Up Program for New Research Professors”, organized by Office of Sponsored Research (OSR), August 2014, McGill University.

\* **Faculty Level:**

Director, McGill MD-MBA Program, 2016-2019, McGill University.

Member, Specialized Master Programs Committee, 2018-2019, McGill University.

Member, MBA Program Committee, 2017-2018, McGill University.

Member, Advisory Board, Marcel Desautels Institute of Integrated Management, 2017-2018, McGill University.

Member, Ph.D. Committee, 2013-2015, 2016-2017, 2018-2019, McGill University.

Member, Management Science Research Centre Steering Committee, 2013-2014, McGill University.

\* **Area Level**

PhD Program Coordinator, Operations Management Area: coordination of all PhD admissions, preparing and conducting the common comprehensive exam- methodology requirement, assignment of teaching and teaching assistantship positions, McGill University.

Supply Chain Council Case Competition, Faculty Judge, 2021, MSU

\* **Public Outreach:**

Co-discussant with Susan Devore, CEO of Premier Inc. on “Redefining Health Care: Transformation of Health Systems for 21st Century”, The Integrated Management Symposium Series, McGill University.

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**PROFESSIONAL SERVICES**


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[INFORMS: Institute for Operations Research and the Management Sciences, POMS: Production & Operations Management Society, CORS: Canadian Operational Research Society; NSERC: National Science and Engineering Research Council; ORAHS: EURO Working Group on Operational Research Applied to Health Services]

**Editorial Board Membership**, Operations Research for Health Care Journal, 2015- present

**Conference Chair**

11<sup>th</sup> International Closed-Loop Supply Chain Workshop, Zaragoza, 2012

Operations Research in Public Health Workshop, McGill University, 2007 (co-chair)

Graduate Student Workshop on Healthcare Operations, McGill University, 2006 (co-chair)

**Cluster Chair of International Conferences**

Chair of Big Data Analytics Cluster, Decision Science Institute Annual Conference, San Francisco, 2020

Co-Chair of Health Care Cluster, POMS Annual Meeting, Chicago, 2012

Feb 2021

Co-Chair of Health Care Cluster, ALIO INFORMS Joint International Conference, Buenos Aires, Argentina, 2010

**Program Chair**

INFORMS Conference on Healthcare, 2011, Montreal

**Referee for National Granting Agencies**

Social Sciences and Humanities Research Council of Canada (SSHRC) Insight Grants, Canada, 2016  
The Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grant, Canada, 2012, 2013, 2017  
Interdisciplinary Capacity Enhancement Awards by Health Research Board, Ireland; 2012, 2013  
Health Services Research Grant by Ministry of Health, Singapore, 2011

**Committee Chair**

INFORMS Health Applications Society, Bonder Scholarship Committee, 2013, 2014  
POMS College of Healthcare Operations Management, Best Paper Competition, 2011

**Judge**

INFORMS Health Applications Society, Best Student Paper Award Committee, 2015, 2017, 2019  
POMS College of Healthcare Operations Management, Best Paper Award Committee, 2014, 2015  
CORS Best Student Paper Award Committee, 2012

**Councilor**, INFORMS Healthcare Society Board, 2014-2016

**Moderator**, Round table Discussion, INFORMS Conference on Healthcare, 2013, Chicago

**Vice President-Awards**, POMS Health Care College, 2010-2011

**Secretary and Editor**, POMS Health Care College, 2009-2010

**Editor and Member**, POMS Health Care College Founding Board, 2008-2009

**Member**, POMS Editorial Board, 2008-2009

**Advisory Board Member**, NSERC CREATE Program on Health Care Operations Management and Information Systems, 2009-2011

**Scientific Committee Member and Referee**, VIII. and IX. International Logistics & Supply Chain Congresses, 2010 and 2011

**Referee**

*Operations Research, Production Operations Management, European Journal of Operations Research Society, Decision Sciences, IIE Transactions on Healthcare, Journal of Operations Research Society, IIE Transactions, Healthcare Management Science, Operations Research for Health Care, Socioeconomic Planning Science, Journal of Simulation, Infor, Journal Flexible Manufacturing Systems*

**Session Organizer and Chair**

INFORMS Health Care Conference, Cambridge MA, 2019  
 INFORMS Health Care Conference, Rotterdam, 2017  
 INFORMS Health Care Conference, Chicago, 2013  
 INFORMS Annual Conference, Phoenix Arizona, 2012  
 POMS Annual Conference, Chicago, 2011  
 POMS Annual Conference, Vancouver, 2010  
 Annual Conference of ORAHS 2008, Toronto  
 Annual Conference of CORS 2008, Quebec City  
 INFORM Annual Conference 2007, Seattle.  
 European Conference on Operational Research EURO XXII, 2007

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**INVITED CONFERENCE PRESENTATIONS**


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[INFORMS: Institute for Operations Research and the Management Sciences, MSOM: Manufacturing & Service Operations Management, POMS: Production & Operations Management Society, CORS: Canadian Operational Research Society, INTRIM: Integrated Risk Management; ORAHS: EURO Working Group on Operational Research Applied to Health Services] The name of the former/current doctoral and post-doctoral students under my supervision is underlines.

- [P1] Zhu E. (C), Kucukyazici B, and Wu T. On Reducing Medically Unnecessary Cesarean Deliveries: The Optimal Delivery Modes of Patient Groups, Annual Conference of Decision Science Institute, 2020.
- [P2] Kucukyazici B., Zhu C. and Mah R. Design of Specialist Response Policies to Emergency Departments; INFORMS Healthcare Conference, Cambridge MA, 2019.
- [P3] Kucukyazici B. and Jaafari A. Improving Patient Transfer Protocols for Regional Stroke Networks; POMS Annual Conference, Washington DC, 2019.
- [P4] Jaafari A. and Kucukyazici B. Robust design of a stroke hospital network
- CORS Annual Meeting, Halifax, 2018.
  - Optimization Days, Montreal, 2018.
- [P5] Zhu C. and Kucukyazici B. On Reducing Waiting Times for Consultations in Emergency Departments; INFORMS Annual Conference, Houston, 2017.
- [P6] Ibrahim R., Kucukyazici B. Verter V., Gendreau M., Blostein M. Designing Personalized Anticoagulant Therapy; INFORMS Annual Conference, Houston, 2017.
- [P7] Zhu C. and Kucukyazici B. Design of Two-tiered Payment Models for Maternity Care; INFORMS Annual Conference, Houston, 2017
- [P8] Jaafari A. and Kucukyazici B. Design of a Robust Stroke Network: Personalized Patient Transportation Policies; INFORMS Annual Conference, Houston, 2017
- [P9] Kucukyazici B. and Zhu C. On Reducing Consultation Waiting Times in Emergency Departments; INFORMS Healthcare Conference, Rotterdam, 2017
- [P10] Zhu C. and Kucukyazici B. Optimal Reimbursement Schemes for Maternity Care Safety and Quality; INFORMS Annual Conference, Nashville, 2016
- [P11] Ardesti-Jaafari A. and Kucukyazici B. Robust Design of a stroke hospital network; INFORMS Annual Conference, Nashville, 2016

- [P12] Zhu C. and Kucukyazici B. Design of Operational Policies to Reduce Boarding Time in Emergency Departments; INFORMS Annual Conference, Nashville, 2016
- [P13] Kucukyazici B. and Zhu C. Design of Financial Incentives for Maternity Care Safety and Quality.
- POMS Annual Conference, Orlando, 2016
  - INFORMS Annual Conference, Philadelphia, 2015
- [P14] Bhat S., Kucukyazici B. and Mah R. Optimal Admission/Discharge Criteria for Patients with Heart Failure in Observation Units. INFORMS Annual Conference, Philadelphia, 2015
- [P15] Kucukyazici B., Verter V., Song L. and Zhang Y. Incorporating Client Preferences into Preventive Care Network Design
- POMS Annual Conference, Orlando, 2016
  - INFORMS Conference on Healthcare, Montreal, Chicago, 2013
  - INFORMS Annual Conference, Minneapolis, 2013
- [P16] Zhu C. and Kucukyazici B. Design of Financial Incentives for Avoiding Unnecessary C-Sections.
- CORS/INFORMS International Conference, Montreal, 2015
  - INFORMS Healthcare Conference, Nashville, Tennessee, 2015
- [P17] Bhat S. and Kucukyazici B. Investigating Admission/Discharge Criteria for Patients in Emergency Department Observation Units. INFORMS Healthcare Conference, Nashville, Tennessee, 2015
- [P18] Chen W., Kucukyazici B., and Saenz M.J. The redesign of extended producer responsibility and its impact on a producer's recovery strategies. 20th Conference of the International Federation of Operational Research Societies (IFORS), Barcelona Spain, 2014
- [P19] Chen W., Kucukyazici B., Verter V. and Saenz M.J. Supply Chain Design for Unlocking the Value of Remanufacturing Under Uncertainty. POMS International Conference, Hong Kong, 2014
- [P20] Verter V., Ibrahim R., Gendaru M. Kucukyazici B. and Blostein M. Designing Individualized Treatment: An Application to Anticoagulation Therapy INFORMS Conference on Healthcare, Chicago 2013
- [P21] Samiedaluie S., Kucukyazici B., Verter V., and Zhang D. Managing Admission Policies to a Neuro-Ward.
- INFORMS Conference on Healthcare, Chicago 2013
  - INFORMS Annual Conference, Phoenix, 2012
- [P22] Samiedaluie S., Kucukyazici B., Verter V., and Zhang D. Managing Admission Policies to a Neuro-Ward.
- The Seventh Conference on INTRIM in Operations and Global Supply Chains, Montreal, 2011 (poster)
  - INFORMS Conference on Healthcare, Montreal, 2011
- [P23] Chen W., Kucukyazici B., Verter V. and Saenz M.J. Facility Location for Product Recovery: The Impact of Uncertainty.
- INFORMS Annual Conference, Minneapolis, 2013
  - Mathematics of Operations and Logistics Conference, Spain, 2013
- [P24] Song L., Kucukyazici B., Verter V. Understanding Client Preference for Preventive Care. INFORMS Annual Conference, Phoenix, 2012
- [P25] Chen W., Kucukyazici B., Verter V. Design of Closed Loop Supply Chains under Uncertainty

- INFORMS Annual Conference, Phoenix, 2012
  - 10th International Closed Loop Supply Chain Workshop, Montreal, 2010 (poster).
- [P26] Kucukyazici B., Green L. and Verter V. Design and Operations of Stroke Units.
- POMS Annual Conference, Vancouver, 2010
  - ALIO/INFORMS Conference, Buenos Aires, Argentina, 2010
- [P27] Kucukyazici B., Verter V. and Bloestein M. Designing Antithrombotic Therapy for Preventing Stroke from Atrial Fibrillation: Initialization of Therapy.
- INFORMS Annual Conference, Washington DC, 2008
  - Annual Meeting of ORAHS, Toronto, 2008
  - Annual Conference of CORS, Quebec City, 2008
  - POMS Annual Conference, San Diego, 2008
- [P28] Kucukyazici B., Verter V. and Mayo M. An Analytical Framework for Managing Community-Based Care Delivery Processes for Chronic Disease.
- Department of Epidemiology and Biostatistics, McGill University, Montreal, 2008
  - INFORMS Annual Conference, Seattle, 2007
  - POMS Annual Conference, Dallas, 2007
- [P29] Kananyan A., Kucukyazici B. and Verter V. "Dealing with Unscheduled Patients in an Outpatient Clinic: A Simulation Modeling Approach", Research Days in Medicine Faculty, McGill University, 2007
- [P30] Kucukyazici B., Verter V. and Mayo M. "A methodological framework to Model Community-Based Care Delivery Process for Chronic Diseases", Graduate Student Workshop on Healthcare Operations, Montreal, 2006.
- [P31] Kucukyazici B., Verter V. and Mayo M. "On the Significance of Reducing the Need for Stroke Patients to Visit the Emergency Department", Workshop for HealthCare Modeling, Vancouver, 2005.
- [P32] Kucukyazici B., Verter V. and Mayo M. "A Markov Modeling of the Care Delivery Process for Stroke Patients after Discharged from Hospital", Optimization Days, Montreal, 2005.
- [P33] Keshavjee K., Bosomworth J., Copen J., Kucukyazici B., Lai J., Lilani R. "Best Practices in EMR Implementation: A Systematic Review", American Medical Informatics Association (AMIA) Annual Symposium, Washington DC 2006
- [P34] Kucukyazici B., Verter V. and Mayo M. "A Scenario-Based Approach to the Improvement of Healthcare Delivery to Stroke Patients in the Community", EURO Summer Institute XXIII: OR in Healthcare, Southampton, UK, 2005.
- [P35] Kucukyazici B., Verter V. and Mayo M. "Improving the care delivery process for stroke patients", International Healthcare and Technology Management (HCTM) Ph.D. Workshop, Univ. of Vienna, Vienna, Austria, 2004.
- [P36] Kucukyazici B. and Ozdamar L. "Optimization of Electrical Power Supply Network and Power Supply Investments in Turkey", 23rd National Conference on Operational Research and Industrial Eng., Istanbul, Turkey, 2002.
- [P37] Kucukyazici B. and Ozdamar L. "Developing concurrent investment plans for power generation and transmission", 22nd National Conference on Operational Research and Industrial Eng., Ankara, Turkey, 2001.



**MEMBERSHIPS IN PROFESSIONAL SOCIETIES/ORGANIZATIONS**

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- \* Institute for Operations Research and the Management Sciences (INFORMS)
- \* Production and Operations Management Society (POMS)