Dr. Mehmet A. Begen, CAP

Assisociate Professor, Ivey Business School, Western University
(cross-appointed to Statistical and Actuarial Sciences (Science))
(cross-appointed to Epidemiology and Biostatistics (Schulich Medicine))

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mbegen@ivey.uwo.ca   +1 (519) 661-4146   http://www.ivey.uwo.ca/Faculty/MBegen

Google Scholar: https://scholar.google.ca/citations?user=_-HoNQkAAAAJ&hl=en&oi=ao
ResearchGate: https://www.researchgate.net/profile/Mehmet_Begen

Education

Sauder School of Business, University of British Columbia (UBC), Vancouver BC, Canada

PhD in Management Science, 2004 – 2010
- Thesis title: Appointment Scheduling with Discrete Random Durations and Applications
- Thesis committee: Maurice Queyranne (supervisor), Martin L. Puterman, Mahesh Nagarajan, Ralph Winter

MSc in Management Science, 2000 – 2001
- Thesis title: Production Planning in JSM Fisheries Ltd: Catch Allocation Decision Tool Support Design
- Thesis supervisor: Martin L. Puterman

Middle East Technical University (METU), Ankara, Turkey

BSc in Industrial Engineering, 1995 – 2000
Certificate of Information Technologies in Computer Engineering, 1998 – 2000

Honors, Awards and Distinctions

2019	Ivey Bridge Award (Ivey research award presented to a faculty whose stream of research has impact beyond traditional SSCI categories of Business and Management).
2018-	Canadian Operational Research Society (CORS) VP (2017-18), President (2018-19), Past President (2019-20)
2017	CORS Practice Prize Finalist
2015	Sponsored Sessions Chair for INFORMS (Institute for Operations Research and the Management Sciences) Healthcare Conference, Nashville TN
2014	Winner of FICO's "Optimize the Real World" contest, 2014
2014 –	Certified Analytics Professional (CAP)
2013	Cluster Chair, Healthcare Operations Management, for INFORMS Healthcare Conference, Chicago IL
2013 – 17	CORS Education Chair
2009	Second prize for the INFORMS Manufacturing & Service Operations Management (MSOM) Student Paper Competition
2009	Runner-up for the INFORMS Computing Student Paper Competition
2009	Honorable mention for CORS Student Paper Competition
2003 – 09	CORS Diploma Coordinator for UBC
2004 – 08	Dean Earle D MacPhee Memorial Fellowship in Business Administration and UBC Tuition Awards
2005 – 08	PGSD3 NSERC Scholarship
2006	Honorable mention for INFORMS Bonder Scholarship
2004	UBC Lusztig Fellowship
2003	CORS Practice Prize
2003	Program Chair for the 45th CORS Annual Conference
2003	Co-author of the paper that received the Best Student-paper Award at IEEE ICIP
2002	INFORMS Case Study Competition Finalist
2002	Best Business Application Award at SCOPE (Student Conference on Operations)
2002	CORS Diploma
2001	Best Graduate Student Presentation Award at CISCO (Canadian International Student Conference on OR)
2000 – 01	Centre for Operations Excellence (COE) Scholarship and UBC Tuition Awards
1996 – 00	Honor student at the Middle East Technical University
1992 – 95	Honor student at Konya Meram Science High School

Publications (* indicates my students or postdoctoral fellows)

Journal Articles

23. Hamza Malik Okuyan*, Serdar Dogan, Menderes Yusuf Terzi, Mehmet A. Begen, Faruk Hilmi Turgut., "Association of serum lncRNA H19 expression with inflammatory and oxidative stress markers and routine biochemical parameters in chronic kidney disease" to appear in Clinical and Experimental Nephrology (January 2021).

22. Hamza Malik Okuyan*, Mehmet A. Begen, "miRNAs as attractive diagnostic and therapeutic targets for Familial Mediterranean Fever" to appear in Modern Rheumatology (December 2020).

21. Steven Habbous*, Lianne Barnieh, Scott Klarenbach, Braden Manns, Sisira Sarma, Mehmet A. Begen, Kenneth Litchfield, Krista L. Lentine, Sunita Singh, Amit X. Garg, "Evaluating multiple living kidney donor candidates simultaneously or sequentially: a cost-effectiveness analysis" to appear in Kidney International (June 2020).

20. Sauré, A., Begen, M. A., Patrick, J. "Dynamic Multi-Priority, Multi-Class Patient Scheduling with Stochastic Service Times", to appear in European Journal of Operational Research (July 2019).

19. Ramin Barzanji, Bahman Naderi, Mehmet A. Begen, "Decomposition algorithms for the integrated process-planning and scheduling problem" to appear in OMEGA (January 2019).

18. Mehmet A. Begen, Martin L. Puterman, Ernest Wu, "Development of an Operational and Tactical Decision Support Tool for a Canadian Beverage Firm: A Case Study" to appear in European Journal of Industrial Engineering (Nov 2018).

17. Amir Rastpour,* Mehmet A. Begen, Alexander V. Louiec, Gregory S. Zaric, "Variability of Waiting Times for the Four Most Prevalent Cancer Types in Ontario: A Retrospective Population-based Analysis" to appear in CMAJ Open (May 2018).

16. Steven Habbous*, Eric McArthur, Sisira Sarma, Mehmet A. Begen, Ngan N. Lam, Braden Manns, Krista L. Lentine, Christine Dipchand, Kenneth Litchfield, Susan Mackenzie, Amit X. Garg, "Potential implications of a more timely living kidney donor evaluation" to appear in American Journal of Transplantation (March 2018).

15. Steven Habbous*, Sisira Sarma, Lianne Barnieh, Eric McArthur, Scott Klarenbach, Braden Manns, Mehmet A. Begen, Krista L. Lentine, Amit X. Garg, "Health care costs for the evaluation, surgery, and follow-up care of living kidney donors" to appear in *Transplantation.*

14. John Lyons,* Peter C. Bell, Mehmet A. Begen, "Determining a Best Route for the Whistler-Blackcomb Mega Day Challenge" to appear in *Interfaces*. (**2017 CORS Practice Prize Finalist.**)

13. S. Habbous,* J. Arnold, M.A. Begen, N. Boudville, M. Cooper, C. Dipchand, S.N. Dixon, L.S. Feldman, D. Goździk, M. Karpinski, S. Klarenbach, G.A. Knoll, M.N. Lam, K.L Lentine, C. Lok, E. McArthur, S. McKenzie, M. Miller, M. Monroy-Cuadros, C. Nguan, G.V.R Prasad, S. Przech, S. Sarma, D.L. Segev, L. Storsley, A.X Garg, "Duration of Living Kidney Transplant Donor Evaluations: Findings From 2 Multi-center Cohort Studies" to appear in *American Journal of Kidney Diseases*.

12. S. Habbous,* E. McArthur, S. N. Dixon, S. Mackenzie, C. Garcia-Ochoa, N.N. Lam, K.L. Lentine, C. Dipchand, K. Litchfield, M.A. Begen, S. Sarma, A.X. Garg, "Initiating maintenance dialysis prior to living kidney donor transplantation when a donor candidate evaluation is well underway" to appear in *Transplantation*.

11. M.A. Begen, R. Fung, D. Granot, F. Granot, C. Hall, B. Kluczny, "Evaluation of a Centralized Transportation Assistance System for Passengers with Special Needs at a Canadian Airport" to appear in *International Journal of Shipping and Transport Logistics*.

10. V. Babashov,* I. Aivas, M.A. Begen, J.Q. Cao, G. Rodrigues, D. D'Souza, M. Lock, G.S. Zaric, "Reducing Patient Wait Times for Radiation Therapy and Improving Treatment Planning: A Discrete-Event Simulation Model". *Clinical Oncology*, 29(6): 385–391, 2017.

9. Onur Ozturk,* Mehmet A. Begen, Gregory S. Zaric, "A branch and bound algorithm for scheduling unit size jobs on parallel batching machines to minimize makespan,". *International Journal of Production Research*, 55(6), 1815-1831. 2016.

8. Vusal Babashov,* Mehmet A. Begen, Joy Mangel, Gregory S. Zaric, "Economic evaluation of brentuximab vedotin for persistent Hodgkin lymphoma". *Current Oncology*, 24 (1), 2017.

7. Mehmet A. Begen, Hubert Pun, Xinghao Yan, "Supply and Demand Uncertainty Comparison and Reduction" to appear in *International Journal of Production Economics*, 180: 125-134, 2016.

6. Burcu Caglar Gencosman,* Mehmet A. Begen, H. Cenk Ozmutlu, Imren O. Yilmaz, "Scheduling Methods for Efficient Stamping Operations at an Automotive Company". *Production and Operations Management*, 25: 1902–1918. doi:10.1111/poms.12584. (**winner of FICO's "Optimize the Real World" contest, 2014**).

5. Onur Ozturk,* Mehmet A. Begen, Gregory S. Zaric, "A Branch and Bound Based Heuristic for Makespan Minimization of Washing Operations in Hospital Sterilization Services," *European Journal of Operational Research*, 239(1): 214–226, May 24, 2014.

4. Mehmet A. Begen, Retsef Levi, Maurice Queyranne, "A Sampling-Based Approach to Appointment Scheduling," *Operations Research*, 60(3): 675–681, June 1, 2012.
3. Mehmet A. Begen and Maurice Queyranne, "Appointment Scheduling with Discrete Random Durations," *Mathematics of Operations Research*, 36(2): 240–257, April 15, 2011.
2. Pablo Santibáñez,* Mehmet A. Begen, Derek Atkins, "Surgical Block Scheduling in a System of Hospitals: An Application to Resource and Wait List Management in a BC Health Authority," *Health Care Management Science*, 10: 269–282, Sep 2007.
1. Mehmet A. Begen and Marty L. Puterman, "Production Planning in JS McMillan: Catch Allocation Tool Design," *Information Systems and Operations Research*, 41(3): 235–244, 2003.

Papers Under Review or Revision

1. Home Health Care Services Management: Districting Problem Revisited (O. Ozturk, M.A. Begen, G. Zaric)

2. Appointment Scheduling Optimization with a Quantile Function Objective (P. Sang, M.A. Begen, Jiguo Cao)

3. Increased surgical capacity without additional resources: A generalized operating room scheduling approach (B. Naderi, V. Roshanaei, D. M. Aleman, M.A. Begen, D.R. Urbach)

4. Robust Multi-Period Pattern-Based Home Health Care Planning and Scheduling: Models, Decompositions and a Novel Branching Algorithm (B. Naderi, M.A. Begen, G. Zaric, V. Roshanaei)

5. Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms (B. Naderi, M.A. Begen, G. Zaric)

6. Dynamic Inter-day and Intra-day Scheduling (C. Zacharias, N. Liu, M.A. Begen)

7. Exact Optimization and Decomposition Approaches for 2D Shelf Space Allocation (B. Caglar Gencosman, M.A. Begen)

Working Papers

projects at various stages.

Conference Articles
8. Kenneth T. Goh, Ann C. Peng, Mehmet A. Begen. (2016). A Moderated-Mediation Model of the Effect of Variation in Efficacy Beliefs on Team Performance. INGRoup (Interdisciplinary network for group research), Helsinki, Finland, July 2016.
7. Mehmet A. Begen and Maurice Queyranne, "Appointment Scheduling with Discrete Random Durations," in Proc. Symposium on Discrete Algorithms (SODA), New York NY, 2009.
6. Ali C. Begen, Mehmet A. Begen and Yucel Altunbasak, "Predictive Modeling of Video Packet Delay in IP Networks," in Proc. IEEE International Conference on Image Processing (ICIP), Atlanta GA, Oct 2006.
5. Ali C. Begen, Mehmet A. Begen, Yucel Altunbasak and M. Reha Civanlar, "Proxy Selection for Interactive Video," in Proc. IEEE International Conference on Communications (ICC), Istanbul, Turkey, June 2006.
4. Mehmet A. Begen, Martin L. Puterman and Ernest Wu, "Operational and Tactical Planning in the Beverage Industry," in Proc. 39th Canadian Transportation Research Forum (CTRF) Conference Transportation Revolutions, 436–445, Calgary AB, Canada, 2004.
3. Derek Atkins, Mehmet A. Begen, Bailey Kluczny, Anita Parkinson and Martin L. Puterman, "PreBoard Screening Analysis at Vancouver International Airport," in Proc. 39th CTRF Conference Transportation Revolutions, 530–539, Calgary AB, Canada, 2004.
2. Ali C. Begen, Yucel Altunbasak and Mehmet A. Begen, "Rate-Distortion Optimized On-Demand Media Streaming with Server Diversity," in Proc. IEEE International Conference on Image Processing, Barcelona, Spain, Sep 2003 (Best Student-paper Award).
1. Ali C. Begen, Yucel Altunbasak, Ozlem Ergun and Mehmet A. Begen, "Real-Time Multiple Description and Layered Encoded Video Streaming with Optimal Diverse Routing," in Proc. IEEE International Symposium on Computers and Communications, Antalya, Turkey, June 2003.

Practitioner Articles

1. Derek Atkins, Mehmet A. Begen, Bailey Kluczny, Anita Parkinson and Martin L. Puterman, "The 90-10 Rule; OR Models Help Improve Passenger Flows and Customer Service at Vancouver International Airport," ORMS Today, 30(2): 26–29, 2003 **(Canadian Operations Research Society (CORS) Practice Prize)**.

Book Chapters

6. Burcu Caglar Gencosman,* H. Cenk Ozmutlu, Huseyin Ozkan and Mehmet A. Begen, "Automotive Stamping Operations Scheduling Using Mathematical Programming and Constraint Programming," in Bopaya Bidanda, Ihsan Sabuncuoglu and Bahar Y. Kara (Eds.), Industrial Engineering Non-Traditional Applications in International Settings. CRC Press, Nov 2014, 37–68.
5. Sakine Batun* and Mehmet A. Begen, "Optimization in Healthcare Delivery Modeling: Methods and Applications," in B. Denton (Ed.), Healthcare Operations Management: A Handbook of Methods and Applications, Springer, Jan 10, 2013, 75–119.
4. Mehmet A. Begen, Srinivas Krishnamoorthy, and John Wilson, "Writing ORMS/Analytics Cases," in J.J. Cochran (Ed.), Wiley Encyclopedia of Operations Research and Management Science, Wiley, Oct 15, 2013, 1–10.
3. Mehmet A. Begen, Srinivas Krishnamoorthy, and John Wilson, "Teaching ORMS/Analytics with Cases," in J.J. Cochran (Ed.), Wiley Encyclopedia of Operations Research and Management Science, Wiley, Dec 2012, 1–13.
2. Mehmet A. Begen, "Stochastic Dynamic Programming Models and Applications" in J.J. Cochran (Ed.), Wiley Encyclopedia of Operations Research and Management Science, Wiley, Feb 15, 2011.
1. Jonathan Patrick and Mehmet A. Begen, "Markov Decision Processes and Its Applications in Healthcare" in Yuehwern Yih (Ed.), Handbook of Healthcare Delivery Systems, CRC Press, Dec 13, 2010, 17–1/18–11.

Non-Refereed Articles

3. Alan J. King, Mehmet A. Begen, Monica Cojocaru, Ellen Fowler, Yashar Ganjali, Judy Lai, Taijin Lee, Carmeliza Navasca and Daniel Ryan, "Web Hosting Service Level Agreements," Proc. Pacific Institute for Mathematical Sciences Industrial Problem Solving Workshop, 2001.
2. John Chadam, Mehmet A. Begen, Ali Ghodsi Boushehri, Yuriy Kazmerchuk, Selly Kane, Viktoria Krupp, Eric Machorro, Eva-Marie Nosal and Limei Sun, "Problems in Portfolio Analysis," Proc. Pacific Institute for Mathematical Sciences Graduate Industrial Math Modelling Camp, 2001 (http://www.pims.math.ca/files/gimmc4.pdf).
1. MSOM Society Student Paper Competition: Abstracts of 2009 Winners, MSOM, 12(1): 184–187, 2010.

Theses

2. PhD Thesis, Appointment Scheduling with Discrete Random Durations and Applications, UBC, 2010
1. MSc Thesis, Production planning in JSM Fisheries Ltd: Catch Allocation Decision Tool Support Design, UBC, 2001

Funding

1. PI – NSERC Discovery Grant, granted April 2018 for 5 years ($26,000/year)
2. PI - 2018/2019 Cancer Care Ontario (CCO) Grant ($97,600)
3. Co-PI – UWO IDI, granted 2017 for 3 years ($150,000/year)
4. PI – NSERC Undergraduate Student Research Award (May 2015–Sep 2015) ($4,500)
5. PI – NSERC Undergraduate Student Research Award (May 2014–Sep 2014) ($4,500)
6. PI – NSERC Discovery Grant, granted April 2011 for 5 years ($24,000/year)
7. PI – Ivey/UWO Startup, granted July 2010 for one time ($12,000)
8. Co-PI – UWO/Ministry of Research and Innovation Post-Doctoral Fellowship (Sep 2011–June 2012) ($100,000)
9. PI – Ivey Research 2009–Current ($7,000/year)

Teaching Materials (Cases, Teaching Notes and Technical Notes)

22. 407 ETR Highway Extension: Material Procurement (7B16E038 Student Spreadsheet and 8B16E038TN) May 2018
21. J.S. McMillan Fisheries Ltd. (**INFORMS 2002 Case Study Competition Finalist**)
20. Seoul National Bank: The Chief Credit Officers' Tough Decisions (9B11E013, 5 pages) (with TN, 8B11E013, 8 pages) (Nov 2011)
19. Introduction Building Blocks of Excel VBA and Real-time Macro Recording (9B11E019, 14 pages) (Aug 2011)

18. Siga Technologies: Profiting from Uncertainty (9B11E014, 8pages) (with TN, 8B11E014, 21 pages) (Nov 2011)
17. Deloitte Recommends Client Selection to Regency Bank (case, 9B11E005, 4 pages) (with TN, 8B11E005, 6 pages) (June 2011)
16. Simulation in Excel and VBA (9B11E031, 24 pages) (Oct 2011)
15. Solver in Excel and VBA (9B11E028, 31 pages) (Aug 2011)
14. Variables and Logical Statements and Logical Operators in Excel VBA (9B11E021, 15 pages) (Aug 2011)
13. Introduction to Graphical User Interface (GUI) and Debugging in Excel VBA (9B11E020, 16 pages) (Aug 2011)
12. Subs, Functions and Event Procedures in Excel VBA (9B11E027, 16 pages) (Aug 2011)
11. Loops and Arrays in Excel VBA (9B11E022, 16 pages) (Aug 2011)
10. A Few Excel and VBA Tips: Data Validation Tool, Offset and Vlookup, Dynamic Chart, Form Controls, Pivot Tables, VBA Help (note, 9B11E018, 14 pages) (June 2011)
 9. How to Record a Marco in Excel (9B11E015, 15 pages) (June 2011)
 8. How to Retrieve Data From Web to Excel (9B11E016, 13 pages) (June 2011)
 7. Sinofert Holdings Limited: Urea Distribution Planning (9B13E027, 6 pages) (with TN, 8B13E027, 3 pages) (Sep 2014)
 6. Hyrule Cinemas: Pricing Movies and Popcorn (9B14E012, 6 pages) (with TN, 8B14E012, 10 pages) (June 2014)
 5. A Student's Dilemma: Rent or Buy? (9B14E013, 6 pages) (with TN, 8B14E013, 8 pages) (June 2014)
 4. Mistral Energy: A Tale of Two Power Markets (9B14E011, 7 pages) (with TN, 8B14E011, 12 pages) (May 2014)
 3. Analysis ToolPak in Excel and VBA (9B13E025, 22 pages) (Sep 2013)
 2. Lakshmi Projects: Sales Structure Dilemma (9B15A019, 10 pages) (with TN, 8B15A019 (9 pages) (June 2015)
 1. Food Truck Forecaster (9B16E033, 4 pages) (with TN, 8B16E033) (14 pages) (Nov 2016)

Highly Qualified Personnel Training and Supervision

35. Supervisor, Maddie Aaron, MSc student, Ivey (Sep 2020 -)
34. Co-supervisor, Vince He, MSc student, Ivey, UWO (June 2020 -)
33. Co-supervisor, Chenghao Jin, MSc student, Ivey, UWO (June 2020 -)
32. Co-supervisor, Pengfei Huangfu, MSc student, Ivey, UWO (June 2020 -)
31. Supervisor, Jane Wang, undergraduate student, Ivey/Computer Science (June 2020 -)
30. Supervisor, Frank Dong, undergraduate student, Ivey/Computer Science (Oct 2019-Sep 2020)
29. Co-supervisor, Steven Habbous, PhD student, Epidemiology and Biostatistics, UWO (Sep 2015-Dec 2018)
28. Co-supervisor, Gulnihal Ucarkus, graduate student, Uludag University (May 2018-)
27. Co-supervisor, Beray Bayazit, graduate student, Uludag University (May 2018-)
26. Co-supervisor, John Lyons, PhD student, Ivey Business School, UWO (Sep 2013–Sep 2019)
25. Supervisor, Mehmet Fatih Aysan, visiting postdoc, Ivey School of Business, UWO (July 2013–Nov 2013)
24. Co-supervisor, Bahman Naderi, postdoctoral fellow, Ivey School of Business, UWO (Jan 2018 – May 2019) (Current position: Assistant Professor, University of Windsor)
23. Co-supervisor, Vusal Babasbov, graduate student, Epidemiology and Biostatistics, UWO (Aug 2010–Sep 2012) (Current position: PhD student, University of Ottawa)
22. Co-supervisor, Sakine Batun, postdoctoral fellow, Ivey School of Business, UWO (Sep 2011–June 2012) (Current position: Faculty member at METU in Ankara, Turkey)
21. Supervisor, Bayezid Gulcan, visiting graduate student, Ivey School of Business, UWO (Oct 2011–Jan 2012)
20. Thesis Examiner, Malek Hannouf, PhD student, Epidemiology and Biostatistics, UWO (Dec 2011, April 2014)
19. PhD Committee Member, Foad Hassanmirzaei, PhD student, Ivey School of Business, UWO (2012)
18. Thesis Examiner, Sidita Zhabjaku, MSc student, Statistical and Actuarial Sciences, UWO (Aug 2013)
17. Thesis Examiner, Rodney Tempo, MSc student, Statistical and Actuarial Sciences, UWO (Sep 2014)
16. Thesis External Examiner, Fatih Yegul, PhD student, Management Sciences, Waterloo (Oct 2014)
15. PhD Examination Chair, David Drudko, PhD student, Physics, UWO (March 2014)
14. Supervisor, Burcu Caglar, visiting graduate student, Ivey School of Business, UWO (Oct 2012–March 2013) (Current position: Faculty member, Uludag University, Turkey)
13. Co-supervisor, Onur Ozturk, postdoctoral fellow, Ivey School of Business, UWO (Sep 2012–Aug 2014) (Current position: Faculty member, University of Ottawa)
12. Co-supervisor, Jianbo Qian, postdoctoral fellow, Ivey School of Business, UWO (Sep 2012–March 2015) (Current position: Analyst for a finance firm)

11. Co-supervisor, Sepehr Proon, postdoctoral fellow, Ivey School of Business, UWO (April 2014–October 2016) (First position: Faculty member, University of Florida, current position: Scientisits at Merck)
10. Co-supervisor, Vahid Roshanaei, PhD student, University of Toronto (Jan 2015–Aug 2018) (Current position: LEcturerr, University of Toronto)
9. Co-supervisor, Peijun Sang, PhD student, Simon Fraser University (Oct 2014–Aug 2018)
8. Co-supervisor, Antoine Saure, postdoctoral fellow, University of British Columbia (Nov 2013–Jan 2017) (Current position: Faculty member, University of Ottawa)
7. Co-supervisor, Nolan Anderson, HBA Student, Ivey School of Business (May 2015–Sep 2015)
6. Co-supervisor, Duncan Cai, HBA Student, Ivey School of Business (May 2014–Sep 2015)
5. Co-supervisor, Amir Rastpour, postdoctoral fellow, Ivey School of Business, UWO (Oct 2015–July 2017) (Current position: Faculty member, University of Ontario Institute of Technology)
4. Thesis examiner/supervisory committee, Kyle McLean, PhD student, Ivey School of Business, UWO (Jan 2015, June 2017)
3. Thesis External Examiner, Abdelhalim Hiassat, PhD student, Management Sciences, Waterloo (Aug 2017)
2. Thesis examiner, Salar Ghamat, PhD student, Ivey School of Business, UWO (Sep 2017)
1. Co-supervisor, Pearl Kwan, MSc Student, Ivey Business School (March 2017 – June 2018)

Teaching Experience

Associate Professor, Ivey Business School, Western University, London ON (2017–current)
- Financial Analytics, MBA and HBA
- Art of Modelling, MSc
- Business Statistics, MSc
- Decision Making with Analytics, MBA
- Preparatory Knowledge Program, Quantitative Analysis, MBA
- Quant Analysis Refresher, MBA Direct
- Best Practices: Competing with Analytics, MSc
- Business Project, MSc

Visiting Associate Professor, Ross School of Business, University of Michigan, Ann Arbor, MI (2018–current)

Assistant Professor, Ivey Business School, Western University, London ON, Canada (2009–2017)
- Business 3316, Decision Making with Analytics, HBA
- Business 4517 (4467), End User Modeling (Spreadsheet Analytics and Programming with VBA), HBA
- Business 9458, Healthcare Analytics, MBA
- Preparatory Knowledge Program, Quantitative Analysis, MBA

Sessional Lecturer, Sauder School of Business, University of British Columbia, Vancouver BC, Canada (2002–2009)
- BAMS 580, Developing Decision Support Tools for Operations Research, graduate level (MM and MBA), designed and taught this course for the first time at the Sauder School of Business (2004, 2005 and 2006)
- BAMS 506, Optimization Models, graduate level (MM and MBA) (2002 and 2003)
- BAMS 507, Theory of Optimization, graduate level (MM and PhD) (2002 and 2004)
- BAMS 508, Discrete Optimization Models, graduate level (MM and MBA) (2003)
- Teaching assistant for Operating Supply Chains, Applied Business Statistics, Operations and Logistics, Optimization Models, Discrete Optimization Models (2004-2007)

Business Experience

Centre for Operations Excellence (COE), University of British Columbia, Vancouver BC, Canada
Project Manager and Associate Director, Research (2002–2004)
Project management (scope definition, proposals, methodology development, documentation, guidance of graduate and undergraduate students), preparation of case studies and papers, and served as a project manager in over 10 projects. Selected projects include:
- Security queuing analysis for the Vancouver international airport (recipient of the CORS 2003 Practice Prize, featured on TV, in the press and in the UBC Annual Report)

- Aggregate logistics planning and optimization for a large beverage firm (recipient of the Best Business Application Award at SCOPE 2002 (Student Conference on OR)); the company's distribution network is worth more than $100 million (USD) and the savings are estimated at about 5% per year
- Quantifying, benchmarking and predicting operational risks for a shipping company; the partner company is a multi-billion-dollar shipping company with over 150 vessels
- Reducing wait times for CT scanners for Vancouver Coastal Health Authority
- Managing surgical waitlists for the Fraser Health Authority

Grant applications, business development, hiring, marketing and promotion of the COE program; organizing workshops and case study competitions; student recruitment and development of the new COE Master's program; supervision of technical analysts at the COE.

- Co-investigator of a grant for $9000 from UBC to develop a customized production planning tool for fisheries to help the sustainability of commercial fish species
- Established academic alliances with operations research software companies and obtained complementary copies of commercial-size solvers for the COE
- INFORMS 2002 Case Study Competition Finalist for the case "J.S. McMillan Fisheries Ltd.: Optimizing Production Planning"

Project Analyst (2000–2001)

Developed a decision support tool for production planning for J.S. McMillan Fisheries Ltd. in Vancouver

- Best Graduate Student-presentation Award at CISCO (Canadian International Student Conference on OR) in 2001

Internships and Others

- Istanbul Stock Exchange (IMKB), Istanbul, Turkey, Summer 2000
- Student assistant for an undergraduate statistics course, METU, Ankara, Turkey, Spring 2000
- Modeling and Simulation Lab (Modsim), METU, Ankara, Turkey, Spring 2000
- ASELSAN (Turkish Military Electronics Industry), Ankara, Turkey, Summer 1999
- TUMOSAN (Turkish Motor Industry), Konya, Turkey, Summer 1998
- Gesas General Food Industry, Konya, Turkey, 1995–1997 (Part-time)

Selected Service

Editorial Work

Ad-hoc reviewer for Operations Research, Management Science, Production and Operations Management (POM), Mathematics of Operations Research, Manufacturing & Service Operations Management, Computers and Operations Research, International Journal of Production Research, European Journal of Operational Research, IIE, Journal of Medical Systems, Medical Decision Making, Natural Sciences and Engineering Research Council of Canada, Health Care Management Science, Decision Sciences, Journal of the Operational Research Society, International Transactions in Operational Research, CORS Student Paper Competition.

External

IFORS 2020 Stream Chair (Scheduling and capacity planning in healthcare).
CORS (Canadian Operational Research Society) Vice President/President/PastPresident (2017-18-19)
CORS 2019 (Organizer/Speaker at Analytics Day and Discussant for CHOW)
Judge for POM Healthcare Paper Competition (2016, 2017)
CORS Education Chair (May 2013 – July 2017)
Sponsored Sessions Chair for INFORMS Healthcare Conference (2015)
Judge for INFORMS Pierskalla paper competition (2012, 2019)
Cluster Chair (Healthcare OM), INFORMS Healthcare Conference (2013; organized over 10 sessions)
Program committee member for the Global Conference on Healthcare Systems Engineering (2014)
Judge for INFORMS Healthcare Applications Society Paper Competition (2013, 2015, 2017, 2019)
CORS graduate student paper competition chair (2012–2013)

Internal

Ivey MS Area Group Digital Asset Coodinator (2020-)
Ivey MS Area Group Teaching Coodinator (2019-)
Ivey MS Area Group Search Committee Chair (2019)
Ivey promotion and tenure committee member (2017 - 2020)
Ivey appointments committee member (2017-2018)
Ivey annual performance evaluation committee member (2017-2019)

Ivey retreat committee member (2017)
Faculty advisor, MSc Hack the case competition (2018)
Faculty advisor, MSc admissions (2017-2018)
HBA appeal committee (2016 – 2018)
Committee member for Vanier scholarship for Ivey (2017)
Judge for MBA case competition (2017)
Judge for AMBA case competition (2017)
Judge for MSc case competition (2017)
Faculty member for the team preparing pre-PKP online program (2015–2016)
Search committee member for management science (MS) (2011–2015)
Ivey research seminar series coordinator for IS, OPS and MS (2010–2012)
Research seminar series coordinator for MS (2010–2016)
Faculty lead for Industry Problem Solving Workshop at Western (2014)
Faculty advisor to Ivey HBA team, case competition, Spain (2014)
Faculty advisor to Ivey HBA team, case competition, New Zealand (2011)
Judge in Ivey high school case competition (2011)

Invited Seminars (since 2011)

12. Home Healthcare Scheduling: Applications and Challenges, University of Michigan- Center for Healthcare Engineering and Patient Safety (CHEPS), December 10, 2018.
11. Home Healthcare Scheduling: Applications and Challenges, University of Ottawa - Telfer School of Management, October 12, 2018.
10. Appointment and Advance Scheduling: Applications and Extensions, University College London - School of Management, August 7 2017.
9. Invited seminar, "Appointment Scheduling and Extensions," Ozyegin University, Istanbul, Turkey, April 2016
8. Invited seminar, "Appointment Scheduling and Applications," Middle East Technical University, Ankara, Turkey, April 2015
7. Invited seminar, University of Buffalo, Industrial Engineering, Oct 2011
6. Invited seminar, 2011 Eastern Health and Department of Health and Community Services NL, St John's, NL, Oct 2011
5. Invited seminar, Department of Health and Community Services NL, St John's, NL, Sep 2011
4. Invited seminar, Saskatchewan Healthcare Ministry, June 2011
3. Invited seminar, University of New York, invited talk at Stern School of Business, New York, NY, April 2011
2. Invited seminar, University of Waterloo, Department of Management Sciences, Waterloo, ON, Jan 2011
1. Invited seminar, UWO, Engineering, Jan 2011

Presentations at Conferences (since 2011)

36. Onur Ozturk Mehmet A. Begen Gregory S. Zaric, "Home Health Care Services Management: Districting Problem Revisited", GJCIE, Antalya Turkey, August 14, 2020 (Virtual)
35. John Lyons, Mehmet A. Begen, Peter Bell, "Breaking the Post-anesthesia Bottleneck in Perioperative Care", INFORMS, Seattle, WA, Oct 20, 2019.
34. Beray Bayazit, Burcu Gencosman, Mehmet A. Begen, Gulnihal Ucarkus, "Raf Alani Tahsisi Ve Sergileme Problemi Cozumunde Genetik Algoritma (in Turkish)", YAEM, Ankara, Turkey, June 13, 2019.
33. John Lyons, Peter Bell, Mehmet A. Begen, "Coordinated OR Scheduling to Balance PACU Loads and Avoid Surgery Delays and Blocking", CORS, Saskatoon, SK, May 29, 2019.
32. Tiffany Bayley, Felipe Rodrigues, Steven Habbous, Mehmet A. Begen, Alexander Smith, David Barrett, "Efficiency Metrics for Ontario Cancer Treatment Centres", CORS, Saskatoon, SK, May 28, 2019.
31. Bahman Naderi, Mehmet A. Begen, Greg Zaric, "Multi-period home healthcare scheduling with flexible routing, multiple non-identical visits, arbitrarily precedence, and multi-caregivers", CORS, Halifax, NS, June 6, 2018.
30. John Lyons, Peter Bell and Mehmet A. Begen, "Applying OR/Analytics to skiing: Whistler-Blackcomb's mega day challenge", IFORS, Quebec City, QC, July 17 2017.
29. Jonathan Patrick, Antoine Sauré and Mehmet A. Begen, "Dynamic multi-priority, multi-class patient scheduling with stochastic service times," IFORS, Quebec City, QC, July 17 2017.
28. John Lyons, Peter Bell and Mehmet A. Begen, "Applying OR to the gamification of skiing at WhistlerBlackcomb", IFORS, Quebec City, QC, July 18 2017.
27. Mehmet A. Begen, "Learning lessons in managing student projects", IFORS, Quebec City, QC, July 20 2017.

26. Amir Rastpour, Mehmet A. Begen, Armann Ingolfsson and Greg Zaric, "Wait Times for Five Most Prevalent Cancer Types in Ontario," INFORMS Healthcare, Rotterdam, Netherlands, July 28 2017.

25. Brecht Cardoen, Mehmet A Begen, Carla Van Riet and Johannes De Smedt, "Finding Empirical Evidence for the Impact of Surgery Sequencing," INFORMS Healthcare, Rotterdam, Netherlands, July 28 2017.

24. Amir Rastpour, Mehmet A. Begen, Armann Ingolfsson and Greg Zaric, "Dynamic Programming for Ambulance Fleet Management," CORS, Banff AB, May 31 2016.

23. Peter Bell, Fredrik Odegaard and Mehmet A. Begen, "Teaching Undergraduate Analytics Using Cases," INFORMS, Philadelphia PA, Nov 2, 2015.

22. Sepehr Nemati, Mehmet A. Begen and Greg Zaric, "Companion Diagnostics Co-Development with Patent Expiry and Additional Effort on Quality," INFORMS, Philadelphia PA, Nov 4, 2015.

21. Mehmet A. Begen, Jonathan Patrick and Antoine Saure, "Combined Advance and Appointment Scheduling," INFORMS, Philadelphia PA, Nov 4, 2015.

20. Mehmet A. Begen, Jonathan Patrick and Antoine Saure, "Combined Advance and Appointment Scheduling," Patient-Centric HealthCare Management in the Age of Analytics Workshop for POM, Bloomington IN, Oct 9, 2015.

19. Mehmet A. Begen, Jonathan Patrick and Antoine Saure, "Combined Advance and Appointment Scheduling," INFORMS Healthcare, Nashville TN, July 29, 2015.

18. Mehmet A. Begen, Jonathan Patrick and Antoine Saure, "Combined Advance and Appointment Scheduling", CORS/INFORMS, Montreal QC, June 17, 2015.

17. Mehmet A. Begen, Hubert Pun and Xinghao Yan, "Hedge against Shortages: Supply and Demand Uncertainty Reduction and Comparison Analysis," San Francisco CA, Nov 2014.

16. Onur Ozturk, Mehmet A. Begen and Greg Zaric, "Design and Scheduling of Home Health Care Services," San Francisco CA, Nov 2014.

15. Mehmet A. Begen, Jonathan Patrick and Antoine Saure, "Combining the Advance and Appointment Scheduling Problems," San Francisco CA, Nov 2014.

14. Jianbo Qian, Mehmet A. Begen and Greg Zaric, "Co-development of Tests for New Drugs with Risk Averse and Risk Seeking Agents," INFORMS, San Francisco CA, Nov 2014.

13. Mehmet A. Begen, "Teaching Spreadsheet Analytics with VBA," EURO Rome, Italy, July 2013.

12. Mehmet A. Begen, "Teaching ORMS with Cases," IIE/YAEM, Istanbul, Turkey, June 2013.

11. Mehmet A. Begen, Hubert Pun and Shaun Yan, "Hedge Against Shortage: Improvement Analysis of Demand and Yield Rate Uncertainty," INFORMS Healthcare 2013, Chicago IL, June 2013.

10. Burcu Caglar, Mehmet A Begen and Cenk Ozmutlu, "Automotive Stamping Scheduling using Mixed Integer Programming and Constraint Programming," IIE/YAEM, Istanbul, Turkey, June 2013.

9. Mehmet A. Begen, Inge Aivas, Vusal Babashov, Michael Lock and Gregory S Zaric, "Reducing Wait Times and Improving Treatment Planning Process for Radiation Therapy," YAEM Conference on ORIE, Istanbul, Turkey, June 2012.

8. Mehmet A. Begen, Inge Aivas, Vusal Babashov, Michael Lock, Gregory S Zaric, "Reducing Wait Times and Improving Treatment Planning Process for Radiation Therapy", INFORMS Beijing, China, June 2012.

7. Mehmet A. Begen, "Teaching Spreadsheet Analytics with Excel VBA," invited, INFORMS, Charlotte NC, Nov 2011.

6. Vusal Babashov, Mehmet A. Begen, Joy Mangel and Greg Zaric, "Economic Evaluation of Brentuximab Vedotin in Relapsed and Refractory Hodgkin Lymphoma," poster and presentation, invited, INFORMS, Charlotte NC, Nov 2011.

5. Mehmet A. Begen and Beter Bell, "Workshop on teaching OR more analytically," invited, INFORMS, Charlotte NC, Nov 2011.

4. Mehmet A. Begen and Maurice Queyranne, "Appointment Scheduling with Discrete Random Durations and Applications," invited, IFORS, Melbourne VIC, Australia, July 2011.

3. Mehmet A. Begen and Beter Bell, "Using Cases in OR Courses," invited, IFORS, Melbourne VIC, Australia, July 2011.

2. Inge Aivas, Vusal Babashov, Mehmet A. Begen, Michael Lockand Greg Zaric, "Reducing Wait Times and Improving Treatment Planning Process for Radiation Therapy," invited, INFORMS Healthcare, Montreal QC, June 2011

1. Mehmet A. Begen, Beter Bell and Fredrik Odegaard, "Case based learning," invited, CORS, St. John's NL, June 2011