

Curriculum Vitae

Renata A. Konrad

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Education

2009 Ph.D. Industrial Engineering, Purdue University
2004 M.A.Sc. Industrial Engineering, University of Toronto
1999 B.A.Sc. Industrial Engineering, University of Toronto

Academic Experience

2018–present	Associate Professor with Tenure	Operations and Industrial Engineering, Worcester Polytechnic Institute
2009–2017	Assistant Professor	Operations and Industrial Engineering, Worcester Polytechnic Institute
2007–2009	Instructor	Department of Nursing, Purdue University

Publications

[†] denotes student author.

Peer-Refereed Journal Articles

1. M. Gallo, **R. Konrad**, and H. Thinyane. An Epidemiological Perspective on Labor Trafficking. *Journal Human Trafficking*, Conditionally Accepted for Publication, July 2020.
2. A. Trapp, **R. Konrad**, J. Sarkis, A. Zeng. Closing the Loop: Forging High-Quality Agile Virtual Enterprises in a Reverse Supply Chain via Solution Portfolio. *Journal of the Operational Research Society*, In Press, 2020.
3. K. Maass, A. Trapp, **R. Konrad**. Optimizing Placement of Residential Shelters for Human Trafficking Survivors. *Socio-Economic Planning Sciences*, In Press, 2020.
4. **R. Konrad**, W. Zhang[†], M. Bjarnadóttir, R. Proaño. Key Considerations When Using Health Insurance Claims Data in Advanced Data Analyses: An Experience Report. *Health Systems*, 2 1–9, 2019.
5. J. Caulkins, M. Kammer-Kerwick, **R. Konrad**, K. Maass, L. Martin, T. Sharkey. A Call to the Engineering Community to Address Human Trafficking. *National Academy of Engineering, The Bridge*, 49(3), 67–73, 2019.
6. **R. Konrad**. Designing Awareness Campaigns to Counter Human Trafficking: An Analytic Approach. *Socio-Economic Planning Sciences*, 1 (67) 86–93, 2019.
7. **R. Konrad**, A. Hall-Phillips, A. Vila-Parrish. Are Our Students Prepared? The Impact of Capstone Design Pedagogical Approaches on Student Skill Development During Industry-Sponsored Fieldwork. *INFORMS Transactions on Education*, 18 (3) 183–193, 2018.

8. W. Zhang[†], M. Bjarnadóttir, R. Proaño, D. Anderson, **R. Konrad**. Accelerating the Adoption of Bundled Payment Reimbursement Systems: A Data-driven Approach Utilizing Claims Data. *IIE Transactions on Healthcare Systems Engineering*, 8 (1) 22–34, 2018.
9. **R. Konrad**. Effectively Engaging Industry Partners within the Classroom. *INFORMS Transactions on Education*, 18 (3) 174–182, 2018.
10. **R. Konrad**, A. Trapp, T. Palmbach, and J. Blom. Overcoming Human Trafficking via Operations Research and Analytics: Opportunities for Methods, Models, and Applications. *European Journal of Operational Research*, 259 (2), 733–745, 2017.
11. **R. Konrad**, S. Albrecht[†], C. Danko[†], et al. A Decision-Support Approach for Provider Scheduling in a Patient-Centered Medical Home. *Journal of Healthcare Management*, 62(1), 46–59, 2017.
12. **R. Konrad**, C. Tang[†], B. Shiner, and B. Watts. Workforce Design in Primary Care-Mental Health Integration: A Case Study at One Veterans Affairs Medical Center. *Health Systems*, 6 (2), 146 – 160, 2017.
13. **R. Konrad**, P. VanBerkel, and M. Lawley. A New Data Source to Support Hospital Operations Modeling, Message-Exchange Protocols as Illustrated through Simulation. *IIE Transactions on Healthcare Systems Engineering*, 7(1), 30–42, 2016.
14. B. Faber, **R. Konrad**, C. Tang[†], and A. Trapp. Examining the Impact of Regular Physician Visits on Heart Failure Patients: A Use Case with Electronic Health Data. *Health Systems*, 5(2), 132–139, 2016.
15. A. Trapp and **R. Konrad**. Finding Diverse Optima and Near-Optima to Binary Integer Programs. *IIE Transactions*, 47(11), 1300–1312, 2015.
16. B. Shiner, C. Tang[†], A. Trapp, **R. Konrad**, I. Bar-On, and B. Watts. The Provision of Mental Health Treatment After Screening: Exploring the Relationship between Treatment Setting and Treatment Intensity. *General Hospital Psychiatry*, 36(6), 581–588, 2014.
17. B. Kim, Y. Elstein, B. Shiner, **R. Konrad**, A. Pomerantz, and B. Watts. Use of Discrete Event Simulation to Improve a Mental Health Clinic. *General Hospital Psychiatry*, 35(6), 668–670, 2013.
18. **R. Konrad**, K. Desotto[†], A. Grocela[†], et al. Modeling the Impact of Changing Patient Flow Processes in an Emergency Department: Insights from a Computer Simulation Study. *Operations Research for Health Care*, 2(4), 66–74, 2013.
19. **R. Konrad**, B. Tulu, and M. Lawley. Monitoring Adherence to Evidence-Based Practices: A Method to Utilize HL7 Messages from Hospital Information Systems. *Applied Clinical Informatics*, 4(1), 126–143, 2013.
20. **R. Konrad**, K. Butler, and M. Dubyk Wodoslawsky. Allocation of Aid for Health Institutions in Ukraine: Implication from a Case Study of Chornobyl Area Hospitals. *International Journal of Health Services*, 39(4), 623–641, 2009.
21. **R. Kopach**, B. Balcioglu, and M. Carter. Tutorial on Constructing a Red Blood Cell Inventory Management System with Two Demand Rates. *European Journal of Operational Research*, 185(3), 1051–1059, 2008.
22. **R. Kopach**, M. Lawley, M. Criswell, et al. Applying Systems Engineering Concepts to the Care of Complex Patients. *Journal of General Internal Medicine*, 22(Suppl 3), 431–437, 2007.

23. **R. Kopach**, P. DeLaurentis, M. Lawley, et al. Effects of Clinical Characteristics on Successful Open Access Scheduling. *Health Care Management Science*, 10(2), 111–124, 2007.
24. **R. Kopach**, S. Sadat, I. Galloway, et al. A Cost Effectiveness Analysis of Medical Documentation Alternatives. *International Journal of Technology Assessment in Health Care*, 21(1), 126–131, 2005.

Other Publications

1. **R. Konrad**, K. Maass, and A. C. Trapp, A Perspective on How to Conduct Responsible Anti-Human Trafficking Research in Operations and Analytics. Technical Report. Available at <https://arxiv.org/abs/2006.16445>, 2020.
2. H. Abouee Mehrizi, and **R. Konrad**, Pricing in Service Systems with Rational Balking and Abandonment of Time-Sensitive Customers. Available at SSRN: <https://ssrn.com/abstract=3464899> or <http://dx.doi.org/10.2139/ssrn.3464899>, 2019.
3. **R. Konrad** and K. Taylor (co-editors). Ending Human Trafficking with Analytics. In A. Robinson (Series Editor) *INFORMS Editor's Cut*. INFORMS, Maryland, 2017.
4. **R. Konrad**, A. Trapp and K. Maass. Human Trafficking Analysis. *ORMS Today*, April 2017.
5. A. Trapp and **R. Konrad**. Finding Diverse Solutions of High Quality to Binary Integer Programs. *OO Digest: Oct 2013 (Optimization Online Digest)*, 2013.
6. **R. Konrad**. Using HL7 Messaging and Diagnostic Related Groups to Characterize Inpatient Flow. Ph.D. Dissertation, Purdue University, West Lafayette, IN, 2009.
7. P. Whitten, E. Gabor, V. Agarwal, and **R. Kopach**. Telemedicine in Indiana Policy Whitepaper. Report prepared for the Regenstrief Center for Healthcare Engineering, Purdue University, West Lafayette, IN, 2006.
8. **R. Kopach**. Finding the Optimal Switchover Level between Two Levels of Demand in a Blood Bank. M.A.Sc. Thesis, University of Toronto, Toronto, Canada, 2004.

Peer-Reviewed Conference Proceedings

1. M. Gallo, **R. Konrad**, and H. Thinyane. Applying Epidemiological Thinking to Assess Anti-Trafficking Interventions in the Thai Garment Industry. *Data for Policy International Conference*, virtual, September 2020.
2. A. Vila-Parrish, **R. Konrad**, and A. Hall-Phillips. Is There a Difference in the Engineering Skills Fostered in Structured vs. Unstructured Capstone Courses? *Proceedings of the Capstone Design Conference*, Columbus, OH, June 2014.
3. **R. Konrad** and M. Lawley. Advanced Tutorial on Input Modeling for Hospital Simulation Models Using Electronic Messages. *Proceedings of the 2009 Winter Simulation Conference*, Austin, TX, December 2009.
4. **R. Konrad**, M. Lawley, and M. Criswell. Incorporating Diagnosis-Based Patient Flow Paths from Health Information Systems Messages into Hospital Decision Models. *Proceedings of the 3rd INFORMS Workshop on Data Mining and Health Informatics (DM-HI) 2008*, Washington, D.C., November 2008.
5. **R. Konrad**, M. Lawley, Y. Yih, and S. Lambert. Characterizing Inpatient Hospital Flow from Information Systems Messaging. *Proceedings of the Industrial Engineering Research Conference*, Vancouver, Canada, May 2008.

6. M. Criswell, I. Hasan, **R. Kopach**, et al. Emergency Department Divert Avoidance Using Petri Nets. *Proceedings System of Systems Engineering Conference*, San Antonio, April 2007.
7. P. DeLaurentis, **R. Kopach**, R. Rardin, et al. Open Access Appointment Scheduling-An Experience at a Community Clinic. *Proceedings Industrial Engineering Research Council*, Orlando, May 2006.
8. **R. Kopach**, S. Sadat, and D. Frances. Models for Predicting Critical Blood Product Shortages. *Proceedings of Operations Research Applications in Health Care*, Prague, 2003.

Peer Reviewed Chapters in Books

1. **R. Konrad**, B. Kucukyazici, and M. Lawley. "Using Patient Flow to Examine Hospital Operations". *Management Engineering for Effective Healthcare Delivery Principles and Applications*, Editors A. Kolker and P. Story, 2011.

Grants Awarded

1. D-ISN: TRACK 2: Disrupting Wildlife Trafficking Networks through Convergence of Physical and Virtual Ecosystems
 Source: National Science Foundation Award # 2039951
 PI: M. Gore co-PI: **R. Konrad**, K. Lee
 Amount \$249,998 Duration 1/2021-06/2022
2. Disrupting Human Trafficking Networks in Ukraine with Operations Research Methods
 Source: Fulbright U.S. Scholar Program
 PI: **R. Konrad**
 Duration Spring 2021- subject to pandemic travel restrictions
3. ISN2: Disrupting Human Trafficking via Needs Matching and Capacity Expansion
 Source: National Science Foundation Award # 1935602
 PI: **R. Konrad** co-PI: A. Trapp, K. Maass, M. Dank
 Amount \$535,565 Duration 1/2020-12/2022
4. EAGER: ISN: A Data Analytic Approach to Understanding Human Trafficking Networks
 Source: National Science Foundation Award # 1841893
 PI: **R. Konrad** co-PI: A. Trapp, K. Maass, M. Dank
 Amount \$166,098 Duration 9/2018-8/2020
5. Designing and Deploying Hospital Capacity Effectively
 Source: WPI Health Delivery Institute PIs: S. Johnson, R. Konrad, A. Trapp
 Amount (all for graduate student support) Duration 7/2016-7/2017
 \$31,000
6. A Logic-based Tool for Improving Access
 Source: U.S. Department of Veterans Affairs PI: S. Johnson
 Amount (awarded to R. Konrad) \$13,063 Duration 6/2015-3/2016
7. Part of an initiative led by Professor Brenton Faber to bring to WPI the Data Analytics Lab. This lab is sponsored by Dimensional Insight and represents a \$300,000 in-kind and \$50,000 cash gift.

Presentations

[†] denotes student author

1. Needs Estimation Of At-risk, Runaway And Homeless Youth In NYC Via Survey Design: A First Step To Disrupt The Supply Of Human Trafficking Networks, *Presented by G. Dimas[†], INFORMS Annual Meeting* , Virtual, November, 2020.
2. Estimating Effectiveness Of Identifying Human Trafficking Victims: An Application Of Data Envelopment Analysis (DEA) On The Nepal/India Border, *Presented by M. El Khalkhali[†] and A. Bender[†], INFORMS Annual Meeting* , Virtual, November, 2020. **Finalist** INFORMS Undergraduate Operations Research Prize.
3. Optimizing The Selection, Scheduling, And Routing Of Foster Care Visitation Meetings, *Presented by C. Johnston[†], INFORMS Annual Meeting* , Virtual, November, 2020.
4. Applying Epidemiological Thinking to Assess Anti-Trafficking Interventions in the Thai Garment Industry, *Presented by M. Gallo, Data for Policy International Conference*, Virtual, September 2020.
5. Human Trafficking Transit Monitoring in Nepal: A Data Analytics Case Study, *Presented by G. Dimas[†], INFORMS Annual Meeting*, Seattle, WA, October, 2019.
6. Improving Community Paramedicine via Data Driven Optimization: Selective, Proactive Treatment of Patients, *Presented by S. Azizi[†], INFORMS Annual Meeting*, Seattle, WA, October, 2019.
7. Improving Community Paramedicine via Data Driven Optimization. Selective, Proactive Management of Emergency Department Patients, *Presented by S. Azizi[†], INFORMS Healthcare*, Boston, MA, 2019.
8. Combating Human Trafficking: Anti-Human Trafficking Efforts and the Potential of Engineering and Analytic Techniques, *Shevchenko Scientific Society Canada*, Toronto, Canada, 2019.
9. A Broader Perspective: Integrating Societal Factors into Human Trafficking Shelter Location Models, *Presented by K. Maass, POMS Annual Conference*, Washington DC, 2019.
10. Integrating Vehicle Routing and Scheduling to Optimize Foster Care Visitations, *Poster presented by C. Johnston[†], POMS Annual Conference*, Washington DC, 2019.
11. A Data Analytic Approach to Understanding Human Trafficking Networks, *NSF Grantees Meeting*, Washington DC, 2019.
12. Illegal Fishing and Trafficked Labor: An Examination of Policies to Address the Intersection of Prosperity and Exploitation, *Poster, Winter Simulation Conference*, Gothenburg, Sweden, 2018.
13. A Broader Perspective: Integrating Societal Factors Into Human Trafficking Shelter Location Models, *Presented by K. Maass, INFORMS Annual Meeting*, Phoenix, AZ, 2018.
14. Improving Community Paramedicine via Data Science and Optimization: Selective, Proactive Management of ED Patients, *Presented by S. Azizi[†], INFORMS Annual Meeting*, Phoenix, AZ, 2018.
15. Integrating Vehicle Routing and Scheduling to Optimize Foster Care Visitations, *Poster presented by C. Johnston[†], INFORMS Annual Meeting*, Phoenix, AZ, 2018.
16. Can Data Analytics and Mathematical Models Aid Anti-Human Trafficking and Social Justice Efforts? *Presented by K. Maass, International Human Trafficking and Social Justice Conference*, Toledo, OH, 2018.

17. A System Dynamics Approach to Illegal Fishing and Trafficked Labor: An Examination of Policies to Address the Intersection of Prosperity and Exploitation, *4th International Conference on Governance, Crime and Justice Statistics, sponsored by the UN Office of Drugs and Crime, Lima, Peru, 2018.*
18. Opportunities to Address Human Trafficking Using Operations Research and Analytics, *University of Massachusetts - INFORMS Speaker Series, Amherst, MA, 2017.*
19. Opportunities to Address Human Trafficking Using Operations Research and Analytics, *Clemson University - Industrial Engineering Speaker Series, Clemson, NC, 2017.*
20. Human Trafficking: Can OR/MS Help Counter the Issue? *IISE Annual Conference, Pittsburgh, PA, 2017.*
21. Applications of Industrial and Operations Engineering in Healthcare, *Innovation Forum Series: Improving Healthcare Experiences through Systems Engineering, Design, and Data Intelligence, Worcester, MA, 2017.*
22. Risk/Return Trade-off in Queues with a Nonlinear Waiting Cost Function, *Presented by H. Abouee-Mehrzi, INFORMS Annual Meeting, Nashville, TN, 2016.*
23. Human Trafficking: Opportunities for Operations Research and Management Science, *INFORMS Annual Meeting, Nashville, TN, 2016.*
24. Data Driven Approach to Bundled Payments, *Presented by M. Bjarnadóttir, INFORMS Annual Meeting, Philadelphia, PA, 2015.*
25. Tools to Support Managing Access in the Veterans Health Administration, *Presented by S. Johnson, INFORMS Annual Meeting, Philadelphia, PA, 2015.*
26. Human Trafficking: Opportunities for Operations Research and Analytics, *IISE Annual Conference, Nashville, TN, 2015.*
27. Automatic Detection of Episodes of Care in an Insurance Claims Repository, *Presented by M. Bjarnadóttir, INFORMS Annual Meeting, San Francisco, CA, 2014.*
28. Does the Structure of a Capstone Design Course Matter? *Presented by A. Vila-Parrish, INFORMS Annual Meeting, San Francisco, CA, 2014.*
29. Opportunities for OR/MS in Healthcare Payment Reform, *Presented by R. Proaño, INFORMS Annual Meeting, San Francisco, CA, 2014.*
30. Systems Science and Health: Using Analytical Approaches to Evaluate Healthcare Policy Decisions, *5th Annual UMass Center for Clinical and Translational Science Research, Worcester, MA, 2014.*
31. Finding Diverse Solutions of Quality to Binary Integer Programs, *Presented by A. Trapp, INFORMS Annual Meeting, Minneapolis, MN, 2013.*
32. Assessing and Maintaining Quality of Care for Veterans with Mental Health Disorders. *Presented by S. Oo[†], INFORMS Healthcare, Chicago, 2013.*
33. The Role of Preventative Care for Congestive Heart Failure Patients in a Rural Health System, *INFORMS Healthcare, Chicago, IL, 2013.*
34. Investigating Control Policies to Mitigate Hospital Congestion, *Operational Research Applied to Health Services, Cardiff, UK, 2011.*

35. Identifying Near-Bottlenecks For Hospital Congestion Relief. *INFORMS Healthcare*, Montréal, Canada, 2011.
36. Advanced Tutorial: Input Modeling for Hospital Simulation Models Using Electronic Messages. *Winter Simulation Conference*, Austin, TX, 2009.
37. Modeling Inpatient Flow from Hospital Information Systems. University of Washington, Industrial Engineering Department. 2009.
38. Constructing Patient Flow Paths from Health Information Systems Data. *INFORMS Annual Meeting*, Washington, D.C., 2008.
39. Developing Diagnosis Based Patient Flow Paths from Health Information Systems. *Data-Mining and Health Informatics Workshop, INFORMS Annual Meeting*, Washington, D.C., 2008.
40. Mining and Synthesis of Flow Patterns from Hospital Information Systems. Dalhousie University, Halifax, Canada, 2008, (Invited as part of the Travelling Speaker's Program for Canadian Operational Research Society).
41. Industrial Engineering Research in Health Care Delivery: One Engineer's Experience. *Center for Information Technology Research in the Interest of Society (CITRIS), Innovation in Services Conference*, University of California, Berkeley, CA, 2008. (Invited)
42. Go with the Flow: Developing a Methodology to Support Hospital Operations Modeling. *INFORMS Annual Meeting*, Seattle, 2007.
43. Blueprint for Effective Patient Flow in Ascension Health Hospitals. *INFORMS Annual Meeting*, Pittsburgh, 2006.
44. Using Patient Flow Data to Predict Hospital States. *Canadian Operational Research Society Annual Meeting*, Montréal, Canada, 2006.
45. Prospective of Hospital Administration in Ukraine. *Regenstrief Center for Healthcare Engineering Brown Bag Series*, Purdue University, West Lafayette, IN, 2006.
46. Switching between Demand Rates in a Blood Bank. *European Summer Institute*, Southampton, Great Britain, 2005. (Selected by the Canadian Operational Research Society to present).
47. Switching Demand Rates in a Blood Bank. *Canadian Operational Research Society Annual Meeting*, Halifax, Canada, 2005.
48. Models for Assessment of Blood Product Shortages: Likelihood and Consequences. *Operations Research Applications in Health Care*, Prague, Czech Republic, July 2003.
49. Models for Assessment of Blood Product Shortages: Likelihood and Consequences. *Canadian Operational Research Society Annual Meeting*, Ottawa, Canada, May 2003.

Courses Taught at WPI

OIE 2500 Management Science I; Deterministic Decision Models. Undergraduate - required. No longer offered. Covers optimization and basic methods of linear programming: model formulation, integer programming, transshipment models, network flow models, and assignment problems. 2009, 2010

BUS 2080 Data Analysis for Decision Making. Undergraduate - required. Introduction to data mining and analytics to create business intelligence. Topics include regression analysis, forecasting, optimization and spreadsheet skills. 2011

OIE 2081 Introduction to Prescriptive Analytics. Undergraduate - required. Introduction to prescriptive analytics, which involves the application of mathematical and computational sciences, such as linear optimization and simulation, to recommend optimal courses of action for decision making. Scheduled 2021

OIE 3460 Simulation Modeling and Analysis. Undergraduate - required. Modeling and analysis of dynamic systems subject to uncertainty. Topics include design of simulation experiments, probability review, output analyses, data structures and discrete-event simulation modeling. 2011, 2013-2018, 2020

OIE 3460 is part of a Collaborative Online International Learning (COIL) project 2020/21.

OIE 3510 Stochastic Models. Undergraduate - required. Probabilistic models and decision-making under risk. Topics covered include discrete time Markov chains, a review of the exponential distribution and its properties, the Poisson process, queueing systems, Monte Carlo simulations and decision trees. 2011, 2013-2020

OIE 542 Risk Management and Decision Making. Graduate - required. Decision making under uncertainty. Topics include decision trees, Monte Carlo simulations, value of information, utility, multi-attribute choice, and applications in operations risk management and design such as quality assurance and supply chains. 2011-2014, 2016-2019

Honors and Awards

Romeo L. Moruzzi Young Faculty Award for Innovation in Undergraduate Education 2018

WPI Faculty Achievement Award awarded by WPI's Board of Trustees 2015, 2018

Major Qualifying Project Provost Award Winner 2014, 2018, 2019

Service and Professional Activities

Profession

Selected member of the United Nations University Delta 8.7 Markets Working Group to identify which multilateral and national policies are proven to deal with modern slavery, forced labour, human trafficking and child labour, 2020.

Invited member of the United States Department of Transportation Advisory Committee on Human Trafficking, 2018.

Invited member of United States Department of Homeland Security – Science and Technology, Human Trafficking Advisory Committee, 2018.

As part of the Research-to-Action Collaborative, produced a fact sheet on human trafficking which was distributed to 2,500 congressional staffers (April 2020) Available at: <https://www.research2policy.org/covid19-trafficking-exploitation>

Institute for Operations Research and Management Science (INFORMS)

- Judge INFORMS Doing Good With Good OR Competition (2020)
- INFORMS K-12 Education Outreach Subcommittee member (2020–present)

- INFORMS Annual 2021 Meeting Organizing Committee member (2020–present)
- Diversity, Equity, and Inclusion Committee member (2016–present)
- Panelist at the INFORMS Doctorial Colloquium (2016)
- Women in Operations Research and the Management Sciences (WORMS) Officer (2013–present)
- Junior Faculty Interest Group (JFIG) Officer (2010–2012)
- Judge INFORMS Section on Public Programs, Services and Needs Paper Competition (2012)

National Science Foundation

- Invited participant – Workshop on Decision Analytics for Dynamic Policing (2019)
- Invited participant – Workshop on the Intersection of Operations Research Methods and Human Trafficking (2017)
- Reviewer (2012, 2017)

Editorial and Referee Activities

- Editorial Board: *Operations Research for Health Care, IIE Transactions*
- Ad-hoc Reviewer for: *Computers & Industrial Engineering, Decision Support Systems, Health Policy, Healthcare Management Science, IIE Transactions in Health Care, Operations Research Spectrum, Operations Research in Healthcare, Production and Operations Management*

Natural Sciences and Engineering Research Council of Canada

- Discovery Grant reviewer (2011)

Department and University

- Faculty Program Director for Undergraduate Programs (2018 – 2019)
- Graduate Research Innovation Exchange (GRIE) Judge (2016, 2017)
- Undergraduate Policy Curriculum Committee (2012 – 2019)
- Search Committee member for an Assistant Professor in Operations and Industrial Engineering (2015, 2010)
- President's IQP Awards Competition Review Panel - Committee Chair (2010), member (2009)

Professional Society Memberships

- Institute for Operations Research and the Management Sciences (INFORMS)
- Institute of Industrial and Systems Engineers (IIE)
- HEAL Trafficking: Health, Education, Advocacy, Linkage

Industry Experience

2002	Systems Contractor	Toronto East General Hospital, Toronto, Canada
1999–2002	Business Analyst	Consumer Financial Services Practice, American Management Systems (now CGI), Toronto, Canada
1996–1998	Assistant Project Engineer	Retail and Distribution Divisions, Loblaw Companies Limited, Toronto, Canada