

Christoffer (Chris) Dharma, PhD, MSc

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Education:

PhD	2025	University of Toronto, <i>Epidemiology, Specialization in Artificial Intelligence and Data Science</i>	Toronto, ON, Canada
MSc	2016	Western University <i>Epidemiology & Biostatistics</i>	London, ON, Canada
BSc	2014	Simon Fraser University <i>Statistics and Psychology</i>	Burnaby, BC, Canada

Academic Appointments:

2026-present	<i>Research Assistant professor</i> , Survey Research Center, Institute for Social Research, University of Michigan
2025-2026	<i>Postdoctoral fellow</i> , Data Science Institute, Institute for Health, Policy, Management, and Evaluation, University of Toronto
2023	<i>Visiting scholar</i> , Columbia University, New York City, NY, USA

Competitive Awards & Scholarships:

2022-2025	<i>Vanier Canada Graduate Scholar</i> , Canadian Institute for Health Research - CAD \$150,000
2021	<i>Ontario Graduate Scholarship</i> , University of Toronto - CAD\$ 15,000
2020	<i>Queen Elizabeth II Graduate Scholarship</i> , University of Toronto - CAD\$ 15,000
2015	<i>Carol Buck Award</i> , Wester University - CAD\$ 5,000
2011-2013	<i>President's and Dean's Honor Roll</i> , Simon Fraser University

Competitive Grants and Fellowships:

2026-present	<i>Collaborator</i> . Social Sciences and Humanities Research Council (SSHRC). Exploring Social and Technical Drivers of Online Gambling Behaviour among Young Canadian Adults. (Shakeri, P. I.) – CAD \$ 108,000
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2025-present	<i>Postdoctoral fellow.</i> Data Science Institute, University of Toronto. Transforming Patient Experience Data into Actionable Insights for Equitable Health Systems. (Dharma, P. I.) – CAD \$ 63,000
2025-2027	<i>Co-investigator.</i> Data Science Institute Catalyst Grant. Advancing psychiatric research with natural language processing and drug exposure modelling: A study of metabolic health outcomes of people with schizophrenia spectrum disorders. (Rotenberg & Maslej, P. I.) – CAD \$50,000
2024-2026	<i>Co-investigator.</i> Alternative Funding Plan (AFP) Innovation Fund. Enriching data on social determinants of health with natural language processing to predict access to care and outcomes for people with schizophrenia spectrum disorders. (Rotenberg & Maslej, P. I.) – CAD \$ 104,997
2023-2024	<i>Researcher.</i> 2SLGBTQ+ Knowledge Generation and Mobilization Awards. (Dharma, P. I.) – CAD \$ 2,500
2023	<i>Visiting scholar.</i> Michael Smith Foreign Study Supplements. Columbia University. Adverse Childhood Experiences and Environmental Exposure on Mental Health of Black Men who have Sex with Men in Southern United States. (Dharma, P. I.) – CAD \$6,000
2021-2024	<i>Co-investigator and supervisor.</i> Canadian Institute of Health Research (CIHR) project grant. The LGBTQ2 policy paradox: A mixed methods study to improve policy for health equity (Salway, P. I.) – CAD \$432,226

Teaching and Academic Advising Experience:

Classroom Teaching:

2021-2025	<i>Teaching Assistant</i> , University of Toronto Course: Epidemiologic Methods II (CHL5402) – graduate level (course supervisor: Bondy). Spring 2021, 2022, 2023, 2024, 2025
2022	<i>Teaching Assistant</i> , University of Toronto Course: Biostatistics I (CHL5201) – graduate level (course supervisor: Thorpe) Fall 2022
2022 - 2024	<i>Teaching Assistant</i> , University of Toronto Course: Introduction to Statistical Reasoning and Data Science I (STA130) – undergraduate level Spring 2022 (Coatano & Moon); Spring 2024 (Speargle & Moon)
2021	<i>Guest Lecturer</i> , University of Toronto Course: Epidemiologic Methods II (CHL5402) – graduate level (course supervisor: Bondy) Topic: Methods in Descriptive Epidemiology Fall 2021

Teaching Assistant Role (no Teaching):

- 2021 *Teaching Assistant*, University of Toronto
Course: Applied Machine Learning for Health Data I (CHL5230) – graduate level (course supervisor: Mitsakakis)
Fall 2021
- 2016 *Teaching Assistant*, Western University
Course: Analytic Epidemiology (EPID3200) – undergraduate level (course supervisor: Karp)
Spring 2016
- 2015 *Teaching Assistant*, Western University
Course: Foundations of Epidemiology (EPID9551) – graduate and undergraduate level (course supervisor: Bauer)
Fall 2015

Student Supervision:

- 2025-2026 *Co-supervisor*. Minh Le, BSc student, University of Toronto
(Primary supervisor: Shakeri)
- 2024 *Co-supervisor*. Carlee Feinsten, MPH student, University of Toronto
(Primary supervisor: Gesink)
- 2023 *Advisor*. Jenesis Merriman, MPH student, Columbia University
(Primary supervisor: Duncan)
- 2023 *Co-supervisor*. Sarra Ali, MPH student, University of Toronto
(Primary supervisor: Schwartz)
- 2023 *Advisor*. Kayla Esser, MPH student, University of Toronto
(Primary supervisor: Chaiton)
- 2023 *Advisor*. Esther Liu, BSc student, University of Toronto
(Primary supervisor: Chaiton)
- 2022 *Advisor*. Mari Pullman, MA student, Ontario Technology University
(Primary supervisor: Chaiton)
- 2022 *Course co-supervisor*. Winson Wong, BHBA student, University of Toronto
(Primary supervisor: Gesink)
- 2017 *Course co-supervisor*. Maxwell Tran, BHSc student, McMaster University
(Primary supervisor: Sears)
- 2016 *Advisor*. Sejutie Alam, BSc student, Western University
(Primary supervisor: Bauer)
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Publications:

Peer-Reviewed Journal Articles – Published

54. Samsel, K., Dharma, C., Rezaei, A. H., M., Bahakeem, A., Ravikumar, K., Bhat, V., Kamaledin, M, A., Shakeri, Z., Too Agreeable to be Accurate? Investigating The Impact of Sycophancy in Large Language Models as a Medical Diagnostic Aid. *Artificial Intelligence in Medicine*. (in press).
53. Jay, M., Straus, S. E., Eskander, A., Lipscombe, L., Dharma, C., Yu, C. Moving towards Acceleration with Accountability: A Conceptual Framework for AI-Assisted Systematic Reviews. *Global Epidemiology*. (in press).
52. Shakeri, Z., Sharifi, M., Moridani, S. H., Yang, C. M., Samsel, K., Dharma, C., Noaen, M. Detecting Misconception Surges in Opioid Policy: A Zero-Shot LLM Analysis of British Columbia's Decriminalization Pilot. *BMC Public Health*. 2026. <https://doi.org/10.1186/s12889-026-28661-x>
51. Lionardi, S., Hadiprajitno, P. I., Handini, L. P., Utomo, N. S., Hartanto, M. C., Lionardi, S. K., Pakpahan, C., Dharma, C., Bac, N. H., Adapting and Validating the Indonesian Version of the Masturbatory Premature Ejaculation Diagnostic Tool (MPEDT): A Questionnaire for Masturbation-Related Ejaculatory Symptoms. *Archives of Sexual Behaviour*. 55, 1869–1876 (2026). <https://doi.org/10.1007/s10508-026-03587-y>
50. Momtaz Esfahani, P., Seeman, D., Dharma, C., Noaen, M., Guha, S., Shakeri, Z. FairCareNLP: An AI-Driven Patient Review Analyzer for Healthcare. *PLOS One*. 2026. <https://doi.org/10.1371/journal.pone.0337676>.
49. Jay, M., Morgan, M., Straus, S. E., Wilson, E., Sutradhar, R., Yu, C., Conn, L. G., Dharma, C., Lipscombe, L., Eskander, A. Evaluating the Methodological Quality of Artificial Intelligence–Assisted Systematic Reviews: Protocol for a Mixed Methods Meta-Research Study. *JMIR Research Protocols*. 2026. <http://dx.doi.org/10.2196/90588>
48. Bashir, K., Ouedraogo, M. O., Dharma, C., Sobers, M., Atukorale, V., Mauer-Vakil, D., Ataullahjan, A., Fadel, S. A., Allin, S. Strengthening access to and confidence in COVID-19 vaccines among equity-deserving populations across Canada: An exploratory qualitative study. *PLOS One*. 2026. <https://doi.org/10.1371/journal.pone.0301953>
47. Dharma, C., Smith, P, Salway, T., Gesink, D., Escobar, M., Landsman, V. A two-step approach to simultaneously correct for selection and misclassification bias in nonprobability samples from hard-to-reach populations. *American Journal of Epidemiology*. 2025. kwaf132. <https://doi.org/10.1093/aje/kwaf132>
46. Merriman, J., Dharma, C., Park, S. H., Joiner, A., Contreras, J., Scheinmann, R., Watson, K., Herrera, C., Bhatt, K., Callendar, D., Schneider, J. A., Lim, S., Trihn-Shevrin, C., Radix, A., Duncan, D., T. Perceived Access to Gender-Affirming Care, Completion of Gender-Affirming Medical Interventions, and Psychological Distress Among Transgender Women of Color: The TURNNT Cohort Study. *American Journal of Epidemiology*. 2025. doi.org/10.1093/aje/kwaf136.
45. Dharma, C., Bondy, S. J., Sikstrom, L., Muirhead, P. S., Zaheer, J., Maslej, M. M. Examining Systemic and Interpersonal Bias in Violence Risk Assessments for Acute Psychiatric Care. *Psychiatric Services*. 2024. <https://doi.org/10.1176/appi.ps.20240108>

44. Collins, E., Edjoc, R., Farrow, A., Dharma, C., Georgiades, S., McDonald, S., Orchard, C., O'Donnell, S., Palmeter, S., Salt, M., Al-Jaishi, A. Prevalence of autism among adults in Canada: results from a simulation modelling study. *BMJ Open*. 2025. 15:e089414. doi:10.1136/bmjopen-2024-089414.
43. Shrader C, Ferraris CM, Frechette J, Magaña C, Dharma C, Santoro AF, Hasin D, Goedel W, McNulty M, Duncan DT, Schneider JA, Knox J. Associations between socioenvironmental context and alcohol use among Black sexually minoritized men and gender expansive populations: Findings from the N2 cohort study. *J. Gay Lesbian Ment. Health*. 2025
42. Dharma, C., Al-Jaishi, A. A., Collins, E., Orchard, C., Amankwah, N., Lang, J. J., Colman, I., Weeks, M., Edjoc, R. Assessing the Impact of the Pandemic on Mental Health Hospitalizations on Canadian Youth's Mental Health Related Hospitalization Rate: An Interrupted Time Series Analysis. 2024. *Health Promot Chronic Dis Prev Can*. doi: 10.24095/hpcdp.44.10.02
41. Pullman, M., Dharma, C., Logie, C. H., Grace, D., Abramovich, A., Barkserville, B., Schwartz, R., Chaiton, M., The mediating effects of minority stress experiences on cannabis consumption among 2SLGBTQ+ youth. *J. Gay Lesbian Ment. Health*. 2024. Doi: [10.1080/19359705.2024.2394453](https://doi.org/10.1080/19359705.2024.2394453)
40. Dharma, C., Smith, P., Escobar, M., Salway, T., Landsman, V., Klassen, B., Lachowsky, N., Gesink, D. Improving prevalence estimates of mental health and well-being indicators among Sexual Minority Men: A Propensity Weighting Approach. *American Journal of Epidemiology*. 2024. doi:10.1093/aje/kwae107.
39. Salway, T., Delgado, J. A., Rich, A., Dharma, C., Bams, L., Fish, J. Trends in mental health and smoking behavior disparities between sexual minority and heterosexual adults in Canada, 2003-2020. *SSM Popul Health*. 2024. <http://dx.doi.org/10.1016/j.ssmph.2024.101697>
38. Duncan, D. T., Park, S., Dharma, C., Torrats-Espinosa, G., Contreras, J., Scheinmann, R., Watson, K., Herrera, C., Schneider, J., Khan, M., Lim, S., Trihn-Shevrin, C., Radix, A. Neighborhood Safety and Neighborhood Police Violence Are Associated with Psychological Distress Among English and Spanish-speaking Transgender Women of Color in New York City: Finding from the TURNNT Cohort Study. *J. Urban Health*. 2024. doi: 10.1007/s11524-024-00879-3.
37. Dharma, C., Keyes, K., Rudolph, K., Shrader, CH., Chen, YT., Schneider, J., Duncan, D. T., Adverse Childhood Experiences among Black Sexually Minoritized Men and Black Transgender Women in Chicago. *International Journal for Equity in Health*. 2024. 23: 74 <https://doi.org/10.1186/s12939-024-02168-6>
36. Dharma, C., Liu, E., Grace, D., Logie, C. H., Abramovich, A., Mitsakakis, N., Baskerville, B., Chaiton, M. Factors Associated with the Use of Psychedelics, Ketamine, and MDMA among sexual and gender minority youths in Canada: A Machine Learning Approach. *Journal of Epidemiology & Community Health*. 2024. 0:1–7. doi:10.1136/jech-2023-220748
35. Mauer-Vakil, D., Dharma, C.*, Sobers, M., Sobers, M., Bashir, K., Atukorale, V., Ouedraogo, M. Lessons Learned Conducting Implementation Science Research on the COVID-19 Vaccination Rollout During a Global Pandemic. *Healthy Populations Journal*. 2023.
34. Dharma, C., Fu, R., Chaiton, M. Table 2 Fallacy in Descriptive Epidemiology: Bringing Machine Learning to the Table. *Int. J. Environ. Res. Public Health*. 2023; 20(13):6194. <https://doi.org/10.3390/ijerph20136194>

33. Dharma, C., Guimond, T., Salway, T., Lachowsky, N. J., Card, K. G., Gesink, D. Geosexual Archetype, Preventive Behaviours, and Sexually Transmitted Infections among High Risk Men who Have Sex with Men. *Sex Transm Dis.* 2023. DOI: 10.1097/OLQ.0000000000001819 ^a
32. Dharma, C., Bondy, S. J. Changes in Concerns and Preventative Behaviours of Canadians during the COVID-19 Pandemic and their Demographic Associations. *Can. J. Behav. Sci.* 2023. <https://doi.org/10.1037/cbs0000373>
31. Cuen-Ojeda, C., Li, B., Tam, D. Y., Dharma, C., Feridooni, T., Eisenberg, N., Roche-Nagle, G. The Impact of Heparin on Mortality Following Open Ruptured Abdominal Aortic Aneurysm Repair. *Ann Vasc Surg.* 2023. <https://doi.org/10.1016/j.avsg.2023.03.026>
30. Cheung DC, Martin LJ, Alibhai SMH, Komisarenko M, Dharma C, Niu Y, Warde P, Sridhar SS, Fleshner NE, Kulkarni GS, Finelli A. (2022). Androgen deprivation therapy for prostate cancer: Prescribing behaviors and preferences among urologists. *Can Urol Assoc J.* Oct;16(10):351-357. doi: 10.5489/cuaj.7730. PMID: 35621292; PMCID: PMC9565067.
29. Reyna ME, Dai R, Tran MM, Breton, V., Medeleanu, M., Lou, W. Y. W., Foong, R. E., Emmerson, M., Dharma, C., Miliku, K., Lefebvre, D. L., Simons, E., Azad, M., Chan-Yeung, M., Becker, A. B., Mandhane, P. J., Turvey, S. E., Hall, G. L., Moraes, T. J., Sears, M. R., Subbarao, P. (2022) Development of a Symptom-Based Tool for Screening of Children at High Risk of Preschool Asthma. *JAMA Netw Open.* 2022;5(10):e2234714. doi:10.1001/jamanetworkopen.2022.34714
28. Abrahamyan L, Barker M, Dharma C, Lee DS, Austin PC, Asghar A, Muthuppalaniappan A, Benson L, Osten M, Horlick E. (2022). Real World Long-Term Outcomes Among Adults Undergoing Transcatheter Patent Foramen Closure with Amplatzer PFO Occluder. *Int J Cardiol.* doi: 10.1016/j.ijcard.2022.09.033.
27. Balzarini, R., Muise, A., Zoppolat, G., Di Bartolomeo, A., Alonso-Ferres, M., Urganci, B., Rodrigues, D., Debrot, A., Bock Pichayayothin, N., Dharma, C., Karremans, J., Chi, P., Schoebi, D., Slatcher, R. (2022). Love in the Time of COVID: Perceived Partner Responsiveness Buffers People from Lower Relationship Quality Associated with COVID-Related Stressors. *Soc Psychol Personal Sci.*
26. Zoppolat, G., Righetti, F., Balzarini, R., Alonso-Ferres, M., Urganci, B., Rodrigues, D., Debrot, A., Wiwattanapantuwong, J., Dharma, C., Chi, P., Karremans, J., Schoebi, D., Slatcher, R. (2022). Relationship difficulties and “technoference” during the COVID-19 pandemic. *Journal of Social and Personal Relationships.* <https://doi.org/10.1177/02654075221093611>
25. Bach Y, Abrahamyan L, Lee DS, Dharma C, Day J, Parker JD, Benson L, Osten M, Horlick E. Long-Term Outcomes of Adults with Tricuspid Regurgitation Following Transcatheter Atrial Septal Defect Closure. *Can J Cardiol.* 2022 Dec 30:S0828-282X(21)00966-1. doi: 10.1016/j.cjca.2021.12.012. PMID: 34974138.
24. Cheung, D. C., Alibhai SMH, Martin L. J., Komisarenko, M., Dharma, C., Warde, P., Sridhar, S. S., Fleshner, N. E., Kulkarni, G. S., Finelli, A. (2021) Real-World Practice Patterns and Predictors of Continuous versus Intermittent Androgen Deprivation Therapy Use for Prostate Cancer in Older Men. *The Journal of Urology.* doi: 10.1097/JU.0000000000001876. Epub ahead of print. PMID: 34032504.
23. Hallet J, Jerath A, Turgeon AF, McIsaac D, Eskander A, Zuckerman J, Zuk V, Sohail S, Darling G, Dharma C, Coburn N, Sutradhar R. (2021). The association between anesthesia provider-volume and short-term outcomes in complex gastrointestinal cancer surgery: a population-based analysis. *JAMA Surgery.* doi:10.1001/jamasurg.2021.0135

22. Abrahamyan, L., Dharma, C., Alnasser, S., Fang, J., Austin, P. C., Lee, D. S., Osten, M., & Horlick, E. M. (2021). Long-Term Outcomes After Atrial Septal Defect Transcatheter Closure by Age and Against Population Controls. *JACC. Cardiovascular interventions*, 14(5), 566–575. doi- 10.1016/j.jcin.2020.12.029.
21. Azad, M. B., Dharma, C., Simons, E., Tran, M., Reyna, M. E., Dai, R., Becker, A. B., Marshall, J., Mandhane, P. J., Turvey, S. E., Moraes, T. J., Lefebvre, D. L., Subbarao, P., Sears, M. R. (2020). Reduced Peanut Sensitization with Maternal Consumption and Early Introduction While Breastfeeding. *Journal of Developmental Origins of Health and Disease*. DOI: 10.1017/S2040174420001129.
20. Silverstein, W. K., Lin Y., Dharma, C., Croxford, R., Earle, C. C., Cheung, M. C. (2020). Physician Factors Associated with Inappropriate Vitamin B12 Supplementation in Ontario, Canada. *Journal of General Internal Medicine*. doi: 10.1007/s11606-020-06185-3.
19. Tam, D., Y., Dharma, C., Rocha, R. V., Farkouh M. E., Abdel-Qadir, H., Sun, L. Y., Wijeyesundera, H. C., Austin, P. C., Udell, J., Gaudino, Fremes, S., Lee, D. S. (2020). Long-Term Survival After Surgical or Percutaneous Revascularization in Diabetic Patients with Multivessel Coronary Artery Disease. *Journal of the American College of Cardiology*. 76(10). 1153-1164. Doi: 10.1016/j.jacc.2020.06.052
18. Tam, D., Y., Dharma, C., Rocha, R. V., Austin, P. C., Wijeyesundera, H. C., Farkouh M. E., Gaudino, M., Sadat, S., Lee, D. S., Fremes, S. (2020). Revascularization strategies for the treatment of multivessel coronary artery disease in patients with diabetes. *Circulation: Cardiovascular Interventions*. doi.org/10.1161/CIRCINTERVENTIONS.120.009082
17. MacLagan, L. C., Bronskill, S. E., Campitelli, M., Yao, S., Dharma, C., Sherin, T., Hogan, D. B., Herrmann, N., Amuah, J., Maxwell, C., J. (2020). Resident-level predictors of dementia pharmacotherapy at long-term care admission: the impact of different drug reimbursement policies in Ontario and Saskatchewan. *Canadian Journal of Psychiatry*. DOI: [10.1177/0706743720909293](https://doi.org/10.1177/0706743720909293)
16. Parks, J., McCandless, L., Dharma, C., Brook, J. R., Turvey, S. E., Mandhane, P. J., Becker, A. B., Kozyrskyj, A. L., Azad, M. B., Moraes, T. J., Lefebvre, D. L., Sears, M. R., Subbarao, P., Scott, J., Takaro, T. K. (2020). Association of use of cleaning products with respiratory health in a Canadian birth cohort. *Canadian Medical Journal Association*. DOI: [10.1503/cmaj.190819](https://doi.org/10.1503/cmaj.190819)
15. Tam, D., Y., Dharma, C., Rocha, R. V., Ouzounian, M., Wijeyesundera, H. C., Austin, P. C., Chikwe, J., Gaudino, M., Fremes, S. E. (2020). Transcatheter valve-in-valve versus redo surgical aortic valve replacement for the management of failed biological prosthesis. *Journal of the American College of Cardiology: Cardiovascular Interventions*. DOI: 10.1016/j.jcin.2019.10.030
14. Dharma, C., Scheim, A. I., Bauer, G. R. (2019). Exploratory Factor Analysis of Two Sexual Health Scales for Transgender People: Trans-Specific Condom/Barrier Negotiation Self-Efficacy (T-Barrier) and Trans-Specific Sexual Body Image Worries (T-Worries). *Archives of Sexual Behaviour*. doi: 10.1007/s10508-018-1383-4.
13. Tam, D., Y. Dharma, C., Rocha, R. V., Ouzounian, M., Wijeyesundera, H. C., Austin, P. C., Fremes, S. E. (2019). Early and late outcomes following aortic root enlargement: a multi-centred propensity matched cohort analysis. *Journal of Thoracic and Cardiovascular Surgery*. doi: 10.1016/j.jtcvs.2019.09.062
12. Silverstein, W. K., Lin Y., Dharma, C., Croxford, R., Earle, C. C., Cheung, M. C. (2019). Prevalence of Inappropriateness of Parenteral Vitamin B12 Administration in Ontario, Canada. *JAMA Internal Medicine*. doi:10.1001/jamainternmed.2019.1859.

11. Chow, A., Dharma, C., Chen, E., Mandhane, P. J., Turvey, S. E., Elliott, S. J., Becker, A. B., Subbarao, P., Sears, M. R., Kozyrskyj, A. L. (2019). Trajectories of Depressive Symptoms and Perceived Stress from Pregnancy to the Postnatal Period: Impact of Employment and Immigration. *American Journal of Public Health*. doi: 10.2105/AJPH.2018.304624.
10. Balzarini, R. N., Dharma, C., Kohut, T., Campbell, C., Lehmler, J. J., Harman, J. J., & Holmes, B. M. (2019). Comparing relationship quality across different types of romantic partners in polyamorous and monogamous relationships. *Archives of Sexual Behaviour*. doi: 10.1007/s10508-019-1416-7.
9. Balzarini, R. N., Dharma, C., Muise, A., & Kohut, T. (2019). Eroticism versus Nurturance: How Eroticism and Nurturance Differs in Polyamorous and Monogamous Relationships. *Social Psychology*. doi.org/10.1027/1864-9335/a000378
8. Dharma, C., Lefebvre, D. L., Tran, M. M., Lu, Z., Lou, W. Y., Subbarao, P., Becker, A., Mandhane, P. J., Turvey, S. E., Moraes, T. J., Azad, M. B., Sears, M. R. (2018). Diagnosing Atopic Eczema /Dermatitis in Infancy: Comparison of Questionnaire-Based Reports and Physician Diagnosis based on UK Working Party criteria. *Paediatric and Perinatal Epidemiology*. 1-12. doi: 10.1111/ppe.12525.
7. Dharma, C., Lefebvre, D. L., Lu, Z., Lou, W. Y., Becker, A., Mandhane, P. J., Turvey, S. E., Moraes, T. J., Azad, M. B., Chen, E., Elliott, S. J., Kozyrskyj, A. L., Sears, M. R., Subbarao, P (2018). Risk for Maternal Depressive Symptoms and Perceived Stress by Ethnicities in Canada: from Pregnancy through the Preschool Years. *The Canadian Journal of Psychiatry*. doi.org/10.1177/0706743718792190.
6. Balzarini, R. N., Dharma, C., Kohut, T., Holmes, B. M., Campbell, L., Lehmler, J. J., & Harman, J. J. (2018). Demographic Comparison of American Individuals in Polyamorous and Monogamous Relationships. *The Journal of Sex Research*, 1-14. doi:10.1080/00224499.2018.1474333.
5. Dharma, C., Lefebvre, D. L., Tran, M. M., Lou, W., Subbarao, P., Becker, A., Mandhane, P. J., Turvey, S. E., Sears, M. R. (2017). Patterns of Allergic Sensitization and Atopic Dermatitis from 1 to 3 years: Effects on allergic diseases. *Clinical & Experimental Allergy*. doi:10.1111/cea.13063.
4. Tran, M. M., Lefebvre, D. L., Dharma, C., Dai, D., Lou, W., Subbarao, P., Becker, A., Mandhane, P. J., Turvey, S. E., Sears, M. R. (2017). Predicting the atopic march: results from the Canadian Healthy Infant Longitudinal Development Study. *Journal of Allergy and Clinical Immunology*. <http://dx.doi.org/10.1016/j.jaci.2017.08.024>.
3. Tran, M. M., Lefebvre, D. L., Dai, D., Dharma, C., Subbarao, P., Lou, W., Azad, M. B., Becker, A., Mandhane, P. J., Turvey, S. E., Sears, M. R. (2017). Timing of food introduction and development of food sensitization in a prospective birth cohort. *Pediatric Allergy and Immunology*. 28(5), DOI:10.1111/pai.12739.
2. Dharma, C., & Bauer, G. R. (2017). Understanding sexual orientation and health in Canada: Who are we capturing and who are we missing using the Statistics Canada sexual orientation question?. *Canadian Journal of Public Health*, 108(1), 21-26. <http://dx.doi.org/10.17269/cjph.108.5848>.
1. Bauer, G. R., Braimoh, J., Scheim, A. I., Dharma, C. (2017). Transgender-inclusive measures of sex/gender for population surveys: Mixed-methods evaluation and recommendations. *PLOS ONE*. 12(5), e0178043. <https://doi.org/10.1371/journal.pone.0178043>.

3. Dharma, C., Feinstein, C., Salway, T., Card, K., Klassen, B., Lachowsky, N., Gesink, D., Patterns of Perceived Inclusion and Mental Health Among Sexual Minority Men in Canada: A Latent Class Analysis. (in review).
2. Dharma, C., Samsel, K., Panchal, A., Christabel, D., Seeman, N., Noaen, M., Shakeri, Z. Generative AI and Foundation Models for Digital Mental Health in Online Gambling. (in review).
1. Sobers, M., Atukorale, V., Mauer-Vakil, D., Bashir, K., Ouedraogo, M. O., Dharma, C., Ataulhjan, A., Fadel, S. A., Allin, S. An equity-focused comparison of the COVID-19 vaccine rollout plans across six Canadian provinces. (in review).

Conference Presentations and Invited Talks

17. Dharma, C.^{*}, Le, N. M., Ahmed, S. I., Bagheri, E., Shakeri Z., Transforming Patient Hospital Experiences into Actionable Insights for Ontario Health Systems. (2026). Oral presentation given at the Canadian Epidemiology and Biostatistics Conference.
16. Dharma, C.^{*} Human–AI Interactions for Health Research: The Evolution of Computational and Research Methods. Invited talk at Wilfrid Laurier University on May 12th 2026.
15. Dharma, C.^{*} Human-AI Interaction in Behavioral Health: The Evolution of Computational Methods. Invited talk at University of South Florida on January 28th 2026.
14. Dharma, C.^{*} Transforming Data and Analytic Methods to Advance Health Equity Research on Marginalized Populations: Intersectional Approaches and Innovations. Invited talk at Tufts University on December 13th 2024.
13. Maslej, M., Dharma, C., Muirhead, P., Bondy, S. J., Zaheer, J., Sikstrom, L. Predictive Care The False Promise of Fair AI Models in Acute Psychiatry. (2023). Oral presentation given at the Temerty Center for AI Research and Education in Medicine (T-CAIREM) in Toronto, ON
12. Manshadi, S. D., Dharma, C., Eisenberg, N., Roche-Nagle, G. Morbidity and Mortality following EVAR and Open AAA Repair in Ruptured Abdominal Aortic Aneurysms in Octogenarians. (2023) Presentation given at the Canadian Society for Vascular Surgery (CSVS) in Quebec City, QC, Canada.
11. Dharma, C.^{*}, Smith, P., Escobar, M., Salway, T., Gesink, D. (2023) Working with Administrative and Survey Data on LGBTQ2S+ communities: Challenges and Potential Solutions. Oral presentation given at the Canadian Sociological Association 2023 meeting. Toronto, Canada.
10. Atukorale, V., Bashir, K., Dharma, C., Mauer-Vakil, D., Ouedraogo, M., Sobers, M. (2022) An equity-focused evaluation of the COVID-19 vaccine rollout plans proposed by six Canadian provinces. Invited presentation at the Centre for Vaccine Preventable Diseases Seminar. Toronto, Canada
9. Dharma, C.^{*} (2020) Regularization and Model Selection using SAS & R. Internal presentation at ICES Research & Analysis Rounds, Toronto, Canada.
8. Tam, D. Y., Dharma, C., Rocha, R., Farkouh, M. E., Abdel-Qadir, H., Sun, L., Gaudino, M., Wijeyesundera, H. C., Austin, P., Udell, J., Fremes, S. E., Lee, D. S. (2020). Improved long-term survival with coronary artery bypass graft surgery compared to percutaneous coronary intervention in diabetics with multivessel disease. Presented at the European Society of Cardiology (ESC) Congress 2020.

7. Tam, D. Y., Dharma, C., Rocha, R. V., Lee, D. S., Austin, P. C., Sajat, S., Gaudino, M., Fremes, S. E. (2019). Trends in revascularization modality selection in patients with diabetes and severe coronary disease in Ontario: a population-based study. Presented at the International Coronary Congress 2019.
6. Maxwell, C. J., MacLagan, L. C., Campitelli, M., Yao, S., Dharma, C., Sherin, T., Hogan, D., Bronskill, S. E. (2019). Predictors of cholinesterase inhibitor and memantine use in newly admitted nursing home residents with dementia and/or cognitive impairment: impact of drug policies in Saskatchewan and Ontario, Canada. Presented at the Alzheimer's Association International Conference (AAIC) Jul 17th 2019.
5. Tam, D. Y., Rocha, R., Dharma, C., Wijeyesundera, H., Ouzounian, M., Austin, P., Fremes, S. (2019) Early And Late Outcomes Following Aortic Root Enlargement At The Time Of Aortic Valve Replacement: A Population Based Study. Presented at the WTSA Conference May 16 2019.
4. Tam, D. Y., Dharma, C., Wijeyesundera, H., Austin, P., Fremes, S. (2019). Surgical valve selection in aortic valve replacement in the era of transcatheter aortic valve implantation: an Ontario population-based study. Presented at the Scientific Forum at Clinical Congress 2019 in October 28 2019
3. Dharma, C.*, Bauer, G. R., Braimoh, J. (2016). Evaluation of Sexual Orientation Items in Population Health Surveys among Canadians: A Mixed Methods Approach. Poster and oral presentation at the 2016 *Guelph Sexuality Conference*, Guelph, ON. Presented on June 23rd and 24th 2016.
2. Dharma, C.*, Bauer, G. R., Braimoh, J. (2016). Evaluation of Sexual Orientation Items in Population Health Surveys among Canadians: A Mixed Methods Approach. Oral presentation at 2016 *Canadian Society for Epidemiology and Biostatistics (CSEB) National Student Conference* Winnipeg, MB, Presented on June 10th 2016.
1. Bauer, G. R., Scheim, A. I., Dharma, C.*, Braimoh, J. (2016) Improving LGBT Health Data: Assessing Survey Measures of Sex, Gender and Sexual Orientation. Panel presentation at the *Rainbow Health Ontario 2016 Conference*, London, ON, Presented on March 10th 2016.

* indicates a presenting author for the conference presentation

Conference Posters and Abstracts

16. Dharma, C.*, Feinstein, C., Gesink, D. Patterns of Community Connectedness and Mental Health among rural, urban, and suburban Sexual Minority Men (SMM) in Canada. (2024). Poster presentation given on October 11th 2024 at the World Psychiatric Association Conference in Bangkok, Thailand.
15. Dharma, C.*, Maslej, M., Sikstrom, L. How well does the Dynamic Appraisal of Situational Aggression (DASA) predict different types of aggression in inpatient psychiatry?. (2024). Poster presentation given on September 19th 2024 at the Krembil Centre for Neuroinformatics (KCNI) Open House in Toronto, ON, Canada.
14. Dharma, C.*, Smith, P., Salway, T., Gesink, D., Escobar, M., Landsman, V. A two-step approach for improved prevalence estimation among hard-to-reach populations. (2024). Poster presentation given on June 18th 2024 at the Society for Epidemiologic Research in Austin, TX.
13. Manshadi, S. D., Dharma, C., Eisenberg, N., Roche-Nagle, G. (2024). Morbidity and Mortality Following Repair of Ruptured Abdominal Aortic Aneurysms in Octogenarians. Abstract at *European Journal of Vascular and Endovascular Surgery*, 67(3), e40-e41.
12. Sobers, M., Bashir, K., Atukorale, V., Ouedraogo, M., Mauer-Vakil, D., Dharma, C., Fadel, S., Ataullahjan, A., Alin, S. An equity-focused evaluation of the COVID-19 vaccine rollout plans proposed by six Canadian

provinces between January 2021 and April 2022. (2023). Poster presentation given at the Canadian Association for Health Services and Policy Research (CAHSPR) in Montreal, QC, Canada.

11. Truong, J., Seung, S. J., Dharma, C., Cheng, S. Y., Earle, C., Singh, S., Mittmann, N., Cheung, M. C. (2022). Phase-Specific Costs of Care in Hematological Malignancies in Ontario, Canada. *Blood* (2022) 140 (Supplement 1): 2165–2166. <https://doi.org/10.1182/blood-2022-168006>

10. Truong, J., Cheung, M., Seung, S. J., Dharma, C., Cheng, S. Y., Earle, C., Singh, S., Mittmann, N. (2022). Phase-specific costs of care in diffuse large B-cell lymphoma in Ontario, Canada. Abstract at *Journal of Clinical Oncology*, 40(16), e18840-e18840.

9. Cuen-Ojeda, C., Tam, D., Dharma, C., Li, B., Eisenberg, N., Roche-Nagle, G. (2022) Systemic heparin administration versus no heparin in open ruptured abdominal aortic aneurysm repair: a propensity score-matched analysis. 75(6) Abstract at *Journal of Vascular Surgery*.

8. Subbarao, P., Tran, M., Dai, R., Lou, W., Emmerson, M., Dharma, C., Lefebvre, D., Moraes, T. J., Becker, B. A., Simons, E., Mandhane, P. J., Turvey, S. E., Sears, M. R. (2019). A symptom-based algorithm to improve asthma diagnosis in early childhood: the CHILD Study. Poster presentation at the European Respiratory Society (ERS) Conference 2019.

7. Silverstein, W. K., Lin Y., Dharma, C., Croxford, R., Cheung, M. C. (2018) Appropriateness of B12 Administration in a Real--World Population. Abstract and Poster presentation at the American Society of Hematology. Presented on December 1st 2018. *Blood*. <https://doi.org/10.1182/blood-2018-99-110264>. Abstract was selected for the ASH Abstract Achievement Award.

6. Choi, J., Dharma, C., Lamri, A., Ambalavanan A., Lefebvre, D., Turvey, S., Mandhane, P., Becker, A., Azad, M. B., Moraes, T., Sear, M. (2018). Gene and environmental interactions associated with recurrent wheeze in the Canadian Healthy Infant Longitudinal Development study. Presented at the Canadian Society of Allergy and Clinical Immunology (CSACI) 2018.

5. Dharma, C., Balzarini, R. N., Kohut, T., Holmes, B. M., Campbell, L., Lehmler, J. J., Harman, J. J. (2018). Demographic Comparison of Polyamorous and Monogamous Individuals. Poster presentation at the Society for Personality and Social Psychology Conference. Presented on March 3rd 2018.

4. Tran, M. M., Lefebvre, D. L., Dharma, C., Dai, D., Lou, W., Subbarao, P., Becker, A., Mandhane, P. J., Turvey, S. E., Sears, M. R. (2017). Predicting the atopic march: results from the Canadian Healthy Infant Longitudinal Development (CHILD) Study. Poster presentation at the Canadian Society of Allergy and Clinical Immunology. Presented on October 14th 2017.

3. Bauer, G. R., Scheim, A. I., Braimoh, J., Dharma, C. (2016) Transgender-inclusive sex/gender measures for population surveys: Mixed-methods assessment of English-language items in a multicultural Canadian context. *International Journal of Psychology* ;51(S1):612.

2. Dharma, C.*, Bauer, G. R., Braimoh, J., Zou, G. Y. (2016). Evaluation of Sexual Orientation Items in Population Health Surveys among Canadians: A Mixed Methods Approach. Poster presentation at the *London Health Research Day 2016*, Presented on May 10th 2016.

1. Bauer, G. R., Braimoh, J., Scheim, A. I., Dharma, C. (2016). Improving Transgender Health Data: Mixed-methods assessment of survey measures of sex/gender for population health surveys. Poster presentation at the 2016 Epidemiology Congress of the Americas, Miami, FL. Presented on June 22nd 2016.

* indicates a presenting author for the conference presentation

Methodological Guidelines

1. Dharma, C., Fang, J. (2020) Penalized Regression and Model Selection using SAS & R. ICES Internal Guideline. Accessible for all ICES employees

Book Chapters

2. Dharma, C., Scheim, A. I., Bauer, G. R. Trans-Specific Sexual Body Image Worries (T-Worries). Milhausen R, Fisher T, Davis C, Yarber B, Sakaluk J, eds. *Handbook of Sexuality-Related Measures*, 4th ed. Taylor & Francis, 2019. 155-156

1. Bauer, G. R., Braimoh, J., Scheim, A. I., Dharma, C. Multidimensional Sex/Gender Measure (MSGM). Milhausen R, Fisher T, Davis C, Yarber B, Sakaluk J, eds. *Handbook of Sexuality-Related Measures*, 4th ed. Taylor & Francis, 2019. 351-353

Research Experience:

2022-2025	<i>Research Analyst</i> . Center for Addiction and Mental Health (CAMH). Toronto, ON
2023-2024	<i>Junior Epidemiologist</i> . Public Health Agency of Canada (PHAC). Ottawa, ON
2020-2021	<i>Research Assistant and Project Manager</i> . University of Toronto. Toronto, ON
2018-2020	<i>Research Analyst</i> . ICES (formerly Institute for Clinical Evaluative Science), Toronto, ON
2016-2018	<i>Statistical Analyst</i> . St. Joseph's Healthcare, Hamilton, ON
2014-2016	<i>Graduate Research Assistant</i> . Western University, London, ON

Professional, Academic, and Community Service:

Editorial Board and Section Editors

2025-present	<i>Editorial Board</i> . BMC Global and Public Health
2019-present	<i>Editorial Board</i> . Archives of Sexual Behavior
2022-2024	<i>Epidemiology Section Editor</i> . University of Toronto Journal of Public Health
2015-2017	<i>Senior Editor</i> , Health Science Inquiry (HSI)

Journal and Conference Reviewing:

2026-present	<i>Reviewer</i> . Digital Health
2025-present	<i>Reviewer</i> . JAMA Open Network

2025-present	<i>Reviewer</i> . Canadian Journal of Public Health
2025-present	<i>Reviewer</i> . American Journal of Epidemiology
2023-present	<i>Reviewer</i> , PLOS One
2019-present	<i>Reviewer</i> , Archives of Sexual Behavior
2018-present	<i>Reviewer</i> , Journal of Sex Research
2026	<i>Ad-hoc Reviewer</i> , Informatics
2026	<i>Ad-hoc Reviewer</i> , Sociological Methods and Research
2026	<i>Ad-hoc Reviewer</i> , European Journal of Psychotraumatology
2026	<i>Ad-hoc Reviewer</i> , JMIR Mental Health
2025	<i>Ad-hoc Reviewer</i> . Psychedelic Medicine
2024	<i>Ad-hoc Reviewer</i> , Drug and Alcohol Review
2024	<i>Ad-hoc Reviewer</i> , Journal of Immigrant and Minority Health
2023	<i>Ad-hoc Reviewer</i> , The Journal of Cardiovascular Surgery
2021	<i>Ad-hoc Reviewer</i> , Paediatric and Perinatal Epidemiology
2019	<i>Ad-hoc Reviewer</i> , Sexuality Research and Social Policy
2019	<i>Ad-hoc Abstract reviewer</i> , Canadian Society of Epidemiology & Biostatistics (CSEB) conference
2014-2016	<i>Reviewer</i> , Journal of Interpersonal Relations, Intergroup Relations and Identity
<i>University Services</i>	
2022-2023	<i>Secretary</i> . DELTA (Doctoral EpidemioLogy Training Association) University of Toronto
2022-2023	<i>Student panelist</i> , advising Vanier applicants, Dalla Lana School of Public Health, University of Toronto
2022	<i>Student volunteer</i> . advising prospective PhD students, Dalla Lana School of Public Health, University of Toronto
2022	<i>Student volunteer</i> . MPH application admissions reviewer, Dalla Lana School of Public Health, University of Toronto
2020-2022	<i>Education Committee Methods Representative</i> , DELTA (Doctoral EpidemioLogy Training Association) University of Toronto

2018	<i>Career Panelist</i> , Department of Epidemiology & Biostatistics, The University of Western Ontario, invited as former Carol Buck Award recipient
2014 – 2016	<i>International Student Representative</i> , Schulich School of Medicine & Dentistry, Western University

Additional Skills and Certification:

Certification:

2026	Microcredential in Deploying AI systems – Data Science Institute, University of Toronto
2026	Certificate in AI Digital Health Product Manager Bootcamp - Toronto Metropolitan University
2022-2025	Artificial Intelligence for Public Health (AI4PH) Training – Canadian Institute for Health Research, University of Toronto
2020-2022	Implementation Science (IS) Training Program – Dalla Lana School of Public Health, University of Toronto.
2020	TCPS2 Certification: Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans:
2020	SAS certification: (SAS Macro Language 1: Essentials, SAS Macro Language 2: Advanced Techniques, SAS SQL 1: Essentials)

Other Skills:

Software skills: SAS (advanced), R (advanced), Python (advanced), STATA (intermediate).

Language Skills: Proficient in English and Indonesian