

Joel Barnes

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Ottawa, Ontario, K1V 2S9

WORK EXPERIENCE

Social Science Researcher

Mar 2022 - current

Statistics Canada • Ottawa, Ontario

- Position is within the [Health Analysis Division](#).
- Developing new features and updating parameters in the [Population Health \(POHEM\) microsimulation model](#).
- Developing a Shiny app that enables users to wrangle and visualize POHEM model output.

Microsimulation Analyst

Feb 2020 - Feb 2022

Statistics Canada • Ottawa, Ontario

- Position was within the [Health Analysis Division](#).
- Developed a [Shiny app](#) that enables users to slice and visualize preliminary COVID-19 data in Canada by a number of different variables.
- Contributor to the [EpiSim R package](#), which enables users to build multi-compartment models (ODE or CTMC) via an Excel workbook that specifies the model structure and age stratification. EpiSim has tools for sensitivity analyses and visualization of model results.
- Developed the [Data Dictionary Builder Shiny app](#) that links meta data for surveys at Statistics Canada. Users can build a searchable, filterable data dictionary and match variables on labels and response options across all cycles of a given survey. There is also a data download feature for users with authorized access to the survey microdata.
- Modeled the COVID-19 pandemic weekly in nine Canadian provinces.
- Developed new features and updated parameters in the [Population Health \(POHEM\) microsimulation model](#).

Knowledge and Data Analyst

Sep 2010 - Dec 2019

CHEO Research Institute • Ottawa, Ontario

- Position was within the [Healthy Active Living and Obesity Research Group](#).
- Cleaned, wrangled and modeled small- and large-scale datasets for refereed publications and reports.
- Provided data analysis consultations for research investigators, staff and students.
- Research manager and lead author for the annual [ParticipACTION Report Card on Physical Activity for Children and Youth](#) (after 2016, a biennial knowledge product).
- Carried out all aspects of the web design/development/maintenance and virtual private server deployment/maintenance for multiple websites:
 - [Active Healthy Kids Global Alliance](#)
 - [Canadian Assessment of Physical Literacy](#) (5+ million data records collected)
 - [Healthy Active Living and Obesity Research Group](#)
 - [Outdoor Play Canada](#)
 - [Sedentary Behaviour Research Network](#)

VOLUNTEER EXPERIENCE

Treasurer

May 2018 - current

Active Healthy Kids Global Alliance • Ottawa, Ontario

- Attend monthly board meetings.
- Manage accounts, serve as bookkeeper, and generate reports for annual general meeting and yearly audit.

SKILLS

10+ years' experience

- CSS
- HTML
- JavaScript
- MySQL
- PHP
- SPSS
- SQL
- WordPress

5+ years' experience

- DigitalOcean
- GitHub
- R
- RStudio

<5 years' experience

- C++
- Microsoft Azure
- Python
- R Markdown
- Shiny

EDUCATION

Master of Science

Sep 2001 - Nov 2003

University of Saskatchewan • Saskatoon, Saskatchewan

- Thesis: "[Comparing health-related physical fitness and activity between old order Mennonite children in Ontario and rural children in Saskatchewan](#)".
- Thesis nominated for the Governor General's Gold Medal.
- Supervisor: [Dr. Mark Tremblay](#)

Bachelor of Science in Kinesiology

Sep 1997 - Apr 2001

University of New Brunswick • Fredericton, New Brunswick

- Dean's List recipient in all four years of the program.
- Graduated with the second highest grade point average in the program.

REFEREED PUBLICATIONS

1. Aubert S, **Barnes JD**, Demchenko I, Hawthorne M, Abdeta C, Abi Nader P, Adsuar Sala JC, Aguilar-Farias N, Aznar S, Bakalár P, Bhawra J, Brazo-Sayavera J, Bringas M, Cagas JY, Carlin A, Chang C-K, Chen B, Christiansen LB, Christie CJ, De Roia GF, Delisle Nyström C, Demetriou Y, Djordjic V, Emeljanovas A, Findling Endy L, Gába A, Galaviz KI, González SA, Hesketh KD, Hubona O, Jeon JY, Jurakić, Jürimäe J, Katapally TR, Katewongsa P, Katzmarzyk PT, Kim Y-S, Lambert EV, Lee E-Y, Levi S, Lobo P, Löf M, Loney T, Taylor JL,

López-Gil JF, Mäestu E, Mahendra A, Makaza D, Mallari MFT, Manyanga T, Masanovic B, Morrison SA, Mota J, Müller-Riemenschneider F, Muñoz Bermejo L, Murphy MH, Naidoo R, Nguyen P, Paudel S, Pedišić Z, Pérez-Gómez J, Reilly JJ, Kerstin Reimers A, Richards AB, Silva DAS, Saonuam P, Sarmiento OL, Sember V, Razif Shahril M, Smith M, Standage M, Stratton G, Subedi N, Tammelin TH, Tanaka C, Tesler R, Thivel D, Tladi DM, Tlučáková L, Vanderloo LM, Huang WY, Williams A, Wong SHS, Wu C-L, Zembura P, Tremblay MS. [Global Matrix 4.0 Physical Activity Report Card Grades for Children and Adolescents: Results and Analyses from 57 Countries](#). J Phys Act Health. 2022. In press.

2. Reilly JJ, **Barnes JD**, Gonzalez SA, Huang WY, Manyanga T, Tanaka C, Tremblay MS. [Recent secular trends in child and adolescent physical activity and sedentary behavior internationally: analyses of data from Active Healthy Kids Global Alliance Global Matrices 1.0-4.0](#). J Phys Act Health. 2022. In press.
3. Tremblay MS, **Barnes JD**, Demchenko I, Gonzalez SA, Brazo-Sayavera J, Kalinowski J, Katzmarzyk PT, Manyanga T, Reilly JJ, Wong SHS, Aubert S. [Active Healthy Kids Global Alliance Global Matrix 4.0—A Resource for Physical Activity Researchers](#). J Phys Health. 2022. In press.
4. Guerrero MD, **Barnes JD**. [Profiles of mental health and their association with negative impacts and suicidal ideation during the COVID-19 pandemic: A Canadian perspective](#). Health Rep. 2022;33(8):19-30.
5. Hoffmann MD, **Barnes JD**, Tremblay MS, Guerrero MD. [Associations between organized sport participation and mental health difficulties: Data from over 11,000 US children and adolescents](#). PLoS ONE. 2022;17(6):e0268583.
6. Pulkki-Raback L, **Barnes JD**, Elovainio M, Hakulinen C, Sourander A, Tremblay MS, Guerrero M. [Parental psychological problems were associated with higher screen time and the use of mature-rated media in children](#). Acta Paediatr. 2022;111(4):825-833.
7. Ledoux AA, Barrowman N, Bijelic V, Borghese MM, Davis A, Reid S, Sangha G, Yeates KO, Tremblay MS, McGahern C, Belanger K, **Barnes J**, Farion KJ, DeMatteo C, Reed N, Zemek R for the Pediatric Emergency Research Canada (PERC) PedCARE team. [Is early activity resumption after paediatric concussion safe and does it reduce symptom burden at 2 weeks post injury? The Pediatric Concussion Assessment of Rest and Exertion \(PedCARE\) multicentre randomised clinical trial](#). Br J Sports Med. 2022;56(5):271-278.
8. Abdessamed M, Mougharbel F, Hafizi K, Cameron JD, Heidinger B, **Barnes J**, D'Angiulli A, Adamo KB, Carson V, Okely AD, Lang JJ, Timmons BW, Longmuir PE, Tremblay MS, Tucker P, Goldfield GS. [Associations between physical activity, sedentary time and social-emotional functioning in young children](#). Ment Health Phys Act. 2021;21:100422.
9. Brazo-Sayavera J, Aubert S, **Barnes JD**, González SA, Tremblay MS. Gender differences in physical activity and sedentary behavior: results from over 200,000 Latin-American children and adolescents. PLoS ONE. 2021;16(8):e0255353.
10. **Barnes JD**, Guerrero MD. [An R package for computing Canadian Assessment of Physical Literacy \(CAPL\) scores and interpretations from raw data](#). PLoS ONE. 2021;16(2):e0243841.
11. Hoffmann MD, McEwan D, Baumeister RF, **Barnes JD**, Guerrero MD. [Home team \(dis\)advantage patterns in the National Hockey League: Changes through increased emphasis on individual performance with the 3-on-3 overtime rule](#). Percept Mot Skills. 2021;128(1):424-438.
12. Guerrero MD, **Barnes JD**, Tremblay MS, Pulkki-Råback L. [Typologies of family functioning and 24-hour movement behaviors](#). Int J Environ Res Public Health. 2021;18(2):699.

13. Larouche R, **Barnes JD**, Blanchette S, Faulkner G, Riazi NA, Trudeau F, Tremblay MS. [Relationships among children's independent mobility, active transportation, and physical activity: a multisite cross-sectional study](#). *Pediatr Exerc Sci*. 2020;32(4):189-196.
14. Ludwig A, Berthiaume P, Orpana H, Nadeau C, Diasparra M, **Barnes J**, Hennessy D, Otten A, Ogden N. [Assessing the impact of varying levels of case detection and contact tracing on COVID-19 transmission in Canada during lifting of restrictive closures using a dynamic compartmental model](#). *Can Commun Dis Rep*. 2020;46(11/12):409-421.
15. Sampasa-Kanyinga H, Colman I, Goldfield GS, Janssen I, Wang J, Tremblay MS, **Barnes JD**, Walsh JJ, Chaput JP. [24-hour movement behaviours and internalizing and externalizing behaviours among youth](#). *J Adolesc Health*. 2020;S1054-139X(20)30524-3.
16. Gonzalez SA, Aubert S, **Barnes JD**, Larouche R, Tremblay MS. [Profiles of active transportation among children and adolescents in the Global Matrix 3.0 initiative: a 49-country comparison](#). *Int J Environ Res Public Health*. 2020;17:5997.
17. Aubert S, **Barnes JD**, Tremblay MS. [Evaluation of the process and outcomes of the Global Matrix 3.0 of physical activity grades for children and youth](#). *J Exerc Sci Fit*. 2020;18(2):80-88.
18. Lee EY, **Barnes J**, Lang J, Silva D, Tomkinson G, Tremblay M. [Testing validity of FitnessGram in two samples of US adolescents \(12-15 years\)](#). *J Exerc Sci Fit*. 2020;18(3):129-135.
19. Walsh JJ, **Barnes JD**, Chaput JP, Tremblay MS. [Associations between duration and type of electronic screen use and cognition in US children](#). *Comput Human Behav*. 2020;108:106312.
20. Manyanga T, **Barnes JD**, Chaput JP, Dubois L, Katzmarzyk PT, Mire EF, Prista A, Tremblay MS. [Prevalence and correlates of objectively measured weight status among urban and rural Mozambican primary schoolchildren: a cross-sectional study](#). *PLoS ONE*. 2020;15(2):e0228592.
21. Guerrero MD, **Barnes JD**, Tremblay MS. [Caution with conclusions required: A response to the paper "Objectively measured aerobic fitness is not related to vascular health outcomes and cardiovascular disease risk in 9-10 year old children"](#). *J Sports Sci Med*. 2019;18(4):830-833.
22. Guerrero MD, **Barnes JD**, Chaput JP, Tremblay MS. [Screen time and problem behaviors in children: exploring the mediating role of sleep duration](#). *Int J Behav Nutr Phys Act*. 2019;16(1):105.
23. Manyanga T, **Barnes JD**, Chaput JP, Katzmarzyk PT, Prista A, Tremblay MS. [Prevalence and correlates of adherence to movement guidelines among urban and rural children in Mozambique: a cross-sectional study](#). *Int J Behav Nutr Phys Act*. 2019;16(1):94.
24. Manyanga T, **Barnes JD**, Chaput JP, Guerrero M, Katzmarzyk PT, Mire E, Prista A, Tremblay MS. [Body mass index and movement behaviors among schoolchildren from 13 countries across a continuum of human development indices: a multinational cross-sectional study](#). *Am J Hum Biol*. 2019;e23341.
25. LeBlanc AG, **Barnes JD**, Saunders TJ, Tremblay MS, Chaput JP. [Scientific sinkhole: the pernicious price of formatting](#). *PLoS ONE*. 2019;14(9):e0223116.
26. Aubert S, **Barnes JD**, Forse ML, Turner E, González SA, Kalinowski J, Katzmarzyk PT, Lee EY, Ocansey R, Reilly JJ, Schranz N, Vanderloo LM, Tremblay MS. [The International Impact of the Active Healthy Kids Global Alliance Physical Activity Report Cards for Children and Youth](#). *J Phys Act Health*. 2019;16:679-697.
27. Guerrero MD, **Barnes JD**, Walsh JJ, Chaput JP, Tremblay MS, Goldfield GS. [24-Hour Movement Behaviors and Impulsivity](#). *Pediatr*. 2019;144(3):e20190187.

28. Delisle Nyström C, **Barnes JD**, Blanchette S, Faulkner G, Leduc G, Riazi NA, Tremblay MS, Trudeau F, Larouche R. [Relationships between area-level socioeconomic status and urbanization with active transportation, independent mobility, outdoor time, and physical activity among Canadian children](#). BMC Public Health. 2019;19(1):1082.
29. Aubert S, **Barnes JD**, Abdeta C, Nader PA, Adeniyi AF, Aguilar-Farias N, Tenesaca DSA, Bhawra J, Brazo-Sayavera J, Cardon G, Chang CK, Delisle Nyström C, Demetriou Y, Draper CE, Edwards L, Emeljanovas A, Gába A, Galaviz KI, González SA, Herrera-Cuenca M, Huang WY, Ibrahim IAE, Jürimäe J, Käämpä K, Katapally TR, Katewongsa P, Katzmarzyk PT, Khan A, Korcz A, Kim YS, Lambert E, Lee EY, Löf M, Loney T, López-Taylor J, Liu Y, Makaza D, Manyanga T, Mileva B, Morrison SA, Mota J, Nyawornota VK, Ocansey R, Reilly JJ, Roman-Viñas B, Silva DAS, Saonuam P, Scriven J, Seghers J, Schranz N, Skovgaard T, Smith M, Standage M, Starc G, Stratton G, Subedi N, Takken T, Tammelin T, Tanaka C, Thivel D, Tladi D, Tyler R, Uddin R, Williams A, Wong SHS, Wu CL, Zembura P, Tremblay MS. [Global Matrix 3.0 Physical Activity Report Card grades for children and youth: results and analysis from 49 countries](#). J Phys Act Health. 2018;15(S2):S251-S273.
30. Aubert S, **Barnes JD**, Aguilar-Farias N, Cardon G, Chang CK, Delisle Nyström C, Demetriou Y, Edwards L, Emeljanovas A, Gába A, Huang WY, Ibrahim IAE, Jürimäe J, Katzmarzyk PT, Korcz A, Kim YS, Lee EY, Löf M, Loney T, Morrison SA, Mota J, Reilly JJ, Roman-Viñas B, Schranz N, Scriven J, Seghers J, Skovgaard T, Smith M, Standage M, Starc G, Stratton G, Takken T, Tammelin T, Tanaka C, Thivel D, Tyler R, Williams A, Wong SHS, Zembura P, Tremblay MS. [Report Card grades on the physical activity of children and youth comparing 30 Very High Human Development Index countries](#). J Phys Act Health. 2018;15(S2):S298-S314.
31. **Barnes JD**, Cameron C, Carson V, Chaput JP, Colley RC, Faulkner GEJ, Janssen I, Kramers R, Saunders TJ, Spence JC, Tucker P, Vanderloo LM, Tremblay MS. [Results from Canada's 2018 Report Card on Physical Activity for Children and Youth](#). J Phys Act Health. 2018;15(S2):S328-S330.
32. González SA, **Barnes JD**, Nader PA, Andrade DST, Brazo-Sayavera J, Galaviz KI, Herrera-Cuenca M, Katewongsa P, López-Taylor J, Liu Y, Mileva B, Avilés AMO, Silva DAS, Saonuam P, Tremblay MS. [Report Card grades on the physical activity of children and youth from 10 countries with High Human Development Index – Global Matrix 3.0](#). J Phys Act Health. 2018;15(S2):S284-S297.
33. Manyanga T, **Barnes JD**, Adeniyi AF, Bhawra J, Draper CE, Katapally TR, Khan A, Lambert E, Makaza D, Nyawornota VK, Ocansey R, Subedi N, Uddin R, Tladi D, Tremblay MS. [Indicators of physical activity among children and youth in nine countries with Low-to-Medium Human Development Indices: A Global Matrix 3.0 paper](#). J Phys Act Health. 2018;15(S2):S274-S283.
34. Belanger K, **Barnes JD**, Longmuir PE, Anderson KD, Bruner B, Copeland JL, Gregg MJ, Hall N, Kolen AM, Lane KN, Law B, MacDonald DJ, Martin LJ, Saunders TJ, Sheehan D, Stone M, Woodruff SJ, Tremblay MS. [The relationship between physical literacy scores and adherence to Canadian physical activity and sedentary behaviour guidelines](#). BMC Public Health. 2018;18(Suppl 2):1042.
35. Delisle Nyström C, **Barnes JD**, Tremblay MS. [An exploratory analysis of missing data from the Royal Bank of Canada \(RBC\) Learn to Play – Canadian Assessment of Physical Literacy \(CAPL\) project](#). BMC Public Health. 2018;18(Suppl 2):1046.
36. Delisle Nyström C, Traversy G, **Barnes JD**, Chaput JP, Longmuir PE, Tremblay MS. [Associations between domains of physical literacy by weight status in 8- to 12-year-old Canadian children](#). BMC Public Health. 2018;18(Suppl 2):1043.

37. Dutil C, Tremblay MS, Longmuir PE, **Barnes JD**, Belanger K, Chaput JP. [Influence of the relative age effect on children's scores obtained from the Canadian Assessment of Physical Literacy](#). BMC Public Health. 2018;18(Suppl 2):1040.
38. Gunnell KE, Longmuir PE, **Barnes JD**, Belanger K, Tremblay MS. [Refining the Canadian Assessment of Physical Literacy based on theory and factor analyses](#). BMC Public Health. 2018;18(Suppl 2):1044.
39. Gunnell KE, Longmuir PE, Woodruff SJ, **Barnes JD**, Belanger K, Tremblay MS. [Revising the motivation and confidence domain of the Canadian Assessment of Physical Literacy](#). BMC Public Health. 2018;18(Suppl 2):1045.
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43. MacDonald DJ, Saunders TJ, Longmuir PE, **Barnes JD**, Belanger K, Bruner B, Copeland JL, Gregg MJ, Hall N, Kolen AM, Law B, Martin LJ, Sheehan D, Woodruff SJ, Tremblay MS. [A cross-sectional study exploring the relationship between age, gender, and physical measures with adequacy in and predilection for physical activity](#). BMC Public Health. 2018;18(Suppl 2):1038.
44. Saunders TJ, MacDonald DJ, Copeland JL, Longmuir PE, **Barnes JD**, Belanger K, Bruner B, Gregg MJ, Hall N, Kolen AM, Law B, Martin LJ, Sheehan D, Stone MR, Woodruff SJ, Tremblay MS. [The relationship between sedentary behaviour and physical literacy in Canadian children: a cross-sectional analysis from the RBC-CAPL Learn to Play study](#). BMC Public Health. 2018;18(Suppl 2):1037.
45. Tremblay MS, Costas-Bradstreet C, **Barnes JD**, Bartlett B, Dampier D, Lalonde C, Leidl R, Longmuir P, McKee M, Patton R, Way R, Yessis J. [Canada's Physical Literacy Consensus Statement: process and outcome](#). BMC Public Health. 2018;18(Suppl 2):1034.
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47. Walsh JJ, **Barnes JD**, Cameron JD, Goldfield GS, Chaput JP, Gunnell KE, Ledoux AA, Zemek RL, Tremblay MS. [Associations between 24 hour movement behaviours and global cognition in US children: a cross-sectional observational study](#). Lancet Child Adolesc Health. 2018;2(11):783-791.
48. Silva DAS, Lang JJ, **Barnes JD**, Tomkinson GR, Tremblay MS. [Cardiorespiratory fitness in children: evidence for criterion-referenced cut-points](#). PLoS ONE. 2018;13(8):e0201048.

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52. Chaput JP, **Barnes JD**, Tremblay MS, Fogelholm M, Hu G, Lambert EV, Maher C, Maia J, Olds T, Onywera V, Sarmiento OL, Standage M, Tudor-Locke C, Katzmarzyk PT. [Thresholds of physical activity associated with obesity by level of sedentary behavior in children](#). *Pediatr Obes*. 2018;13:450-457.
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54. Tremblay MS, Chaput JP, Adamo KB, Aubert S, **Barnes JD**, Choquette L, Duggan M, Faulkner G, Goldfield GS, Gray CE, Gruber R, Janson K, Janssen I, Janssen X, Jaramillo Garcia A, Kuzik N, LeBlanc C, MacLean J, Okely AD, Poitras VJ, Rayner ME, Reilly JJ, Sampson M, Spence JC, Timmons BW, Carson V. [Canadian 24-Hour Movement Guidelines for the Early Years \(0–4 years\): An Integration of Physical Activity, Sedentary Behaviour, and Sleep](#). *BMC Pub Health*. 2017;17(Suppl 5):874.
55. LeBlanc AG, Gunnell KE, Prince SA, Saunders TJ, **Barnes JD**, Chaput JP. [The ubiquity of the screen: an overview of the risks and benefits of screen time in our modern world](#). *Transl J Am Coll Sports Med*. 2017;2(17):104-113.
56. Tremblay MS, Aubert S, **Barnes JD**, Saunders TJ, Carson V, Latimer-Cheung AE, Chastin SFM, Altenburg TM, Chinapaw MJM, SBRN Terminology Consensus Project Participants. [Sedentary Behavior Research Network \(SBRN\) – Terminology Consensus Project process and outcome](#). *Int J Behav Nutr Phys Act*. 2017;14(1):75.
57. Carson V, **Barnes J**, LeBlanc CMA, Moreau E, Tremblay MS. [Increasing Canadian paediatricians' awareness and use of the new Canadian Physical Activity and Sedentary Behaviour Guidelines for ages 0 to 17 years](#). *Paediatr Child Health*. 2017;22(1):17-22.
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59. **Barnes JD**, Tremblay MS. [Changes in indicators of child and youth physical activity in Canada, 2005-2016](#). *Can J Pub Health*. 2016;107(6):e586-e589.
60. Chaput JP, Katzmarzyk PT, **Barnes JD**, Fogelholm M, Hu G, Kuriyan R, Kurpad A, Lambert EV, Maher C, Maia J, Matsudo V, Olds T, Onywera V, Sarmiento OL, Standage M, Tudor-Locke C, Zhao P, Tremblay MS; ISCOLE Research Group. [Mid-upper arm circumference as a screening tool for identifying children with obesity: a 12-country study](#). *Pediatr Obes*. 2016;12:439-445.
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- Knudson D, Lloyd M, McKenzie TL, Olds TS, Sacheck JM, Shephard RJ, Zhu W, Tremblay MS. [The Canadian Assessment of Physical Literacy: development of a model of children's capacity for a healthy, active lifestyle through a Delphi process](#). J Phys Act Health. 2016;13(2):214-222.
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 64. Gray CE, Larouche R, **Barnes JD**, Colley RC, Cowie Bonne J, Arthur M, Cameron C, Chaput JP, Faulkner G, Janssen I, Kolen AM, Manske SR, Salmon A, Spence JC, Timmons BW, Tremblay MS. [Are we driving our kids to unhealthy habits? Results of the Active Healthy Kids Canada 2013 Report Card on Physical Activity for Children and Youth](#). Int J Environ Res Public Health. 2014;11:6009-6020.
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