**Lisa Avery** Curriculum vitae

## contact

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## links

[google scholar](https://scholar.google.ca/citations?user=MX_z-3gAAAAJ&hl=en)

[ResearchGate](https://www.researchgate.net/profile/Lisa-Avery-2)

[orchid](https://orcid.org/0000-0002-8431-5143)

[github](https://github.com/Avery-Lisa) [github2](https://github.com/lisa-avery)

## programming

R SAS Python VBA swift

## interests

data science

longitudinal modelling

reproducible workflows

outcome measurement

statistics education

respondent-driven sampling

## certifications

TCPS-2

Canada GCP

## research metrics

h-index: 21

i10-index: 29

# Education

|  |  |
| --- | --- |
| 2017-2021 | PhD, York University  Thesis: Statistical methods for studies using respondent driven sampling with applications to urban Indigenous health |
| 2002-2004 | MSc with distinction, University of Otago (Dunedin, NZ)  Thesis: Analysis of asthma exacerbations in clinical trials and development of event curves and the sum logrank test |
| 1994-1998 | B.Eng, McMaster University |

# Teaching Brief

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| --- | --- |
| 2021-2022 | University of Toronto  Learning from Data, Introduction to Study Design and Statistical Analysis Methods (MSc/PhD)  Statistical Methods for Clinical Trials (MSc/PhD)  Practicum supervision |
| 2019-2020 | University of Otago  Official Statistics (400 Level)  Study Design (300 level)  Introductory Statistics (100 level)  Biostatistics (100 level) |
| 2017-2019 | York University  Research methods in kinesiology and analysis of data in kinesiology I and II (TA) |
| 2006 | University of Otago  Introductory Statistics (100 level) |

# Professional Experience

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| --- | --- |
| 2020-present | Senior Biostatistician, University Health Network |
| 2021-present | Assistant Professor, University of Toronto, Dalla Lana School of Public Health (status only) |
| 2019-2020 | Lecturer, Department of Mathematics and Statistics, University of Otago |
| 2006-2020 | Principal, Avery Information Services Inc Statistical Consulting |
| 2003-2004 | Assistant Lecturer, postgraduate, Department of Mathematics and Statistics, University of Otago |
| 1999-2001 | IT consultant, British Bakeries, Windsor, UK |
| 1998-1999 | Research Analyst, Neurological and Clinical Research Unit, McMaster University |

# Research Funding

|  |  |
| --- | --- |
| 2021  co-investigator | $271,576 2 years The impact of participation on body functions among youth with physical disabilities, A pragmatic individual-based study Canadian Institutes of Health Research |
| 2021  co-applicant | $204,205 2 years Long COVID and Episodic Disability, Advancing the Conceptualization, Measurement and Knowledge of Episodic Disability with people living with Long COVID Canadian Institutes of Health Research |
| 2020  co-investigator | $38,097 1 year Wellbeing priorities for children with highly complex disabilities and their parents. Social Sciences and Humanities Research Council |
| 2019  co-investigator | $98,333 1 year The impact of participation on body functions among youth with physical disabilities, a pragmatic individual-based study. Canadian Institutes of Health Research |
| 2019  co-applicant | $19,915 1 year Development of an eLearning environment for understanding statistical concepts and skills.  University of Otago Teaching Development Grant |
| 2018  co-investigator | $100,000 1 year Indigenous Health Counts, Advancing Meta-analysis Methods for Respondent-Driven Sampling and Urban Indigenous Children’s Health. Canadian Institutes of Health Research |

# Journal Reviews

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| --- | --- |
| 2020 | Public Library of Science |
| 2020-2021 | BMC Public Health |
| 2019-2021 | Disability and Rehabilitation |
| 2019 | Drug and Alcohol Dependence |
| 2017-2021 | Developmental Medicine and Child Neurology |

# Community & Service

SORA (Southern Ontario Chapter of the American Statistical Association), Treasurer (2021-present)

Orillia Public Library, Board Member, chair of finance committee (2015-2019)

Information Orillia, Board Member (2015-2016)

Snowflake Race Series fun runs to support the Sharing Place Food Bank, Race Director (2011-2015)

# Guest Lectures

Invited lecture on respondent driven sampling and current applications in Ontario to the Epidemiology and Biostatistics graduate program at the Schulich School of Medicine. Western University, March 2021

Applications of respondent driven sampling to modelling cardiovascular disease in an urban Indigenous population. Lecture, Biostatistics graduate program University of Toronto, Dalla Lana School of Public Health, September 2020

Invited lecture on item response theory delivered to the Health Research Methodology graduate class. McMaster University, 2017

# Recent Presentations

O’Brien K, Avery L, Davis A, Bayoumi A, Tang A, Carusone S, Solomon P, Aubry R, Nirmalanathan K (2020). Cardiopulmonary Fitness Changes across a three-phased Community-Based Exercise Intervention Study among Adults Living with HIV. 29th Annual Canadian Conference on HIV/AIDS Research.

Avery L, Rotondi M (2019). Unweighted RegressionR is Preferred for RDS Data. New Zealand Statistical Association Annual Meeting, Dunedin, NZ.

**Books**

Gross Motor Function Measure (GMFM-66 and GMFM-88) User’s Manual, 3rd Edition. Russell D, Wright M, Rosenbaum P, Avery L. MacKeith Press, 2021.

**Peer Reviewed Publications**

Avery L, Maddox R, Wong O, Rotondi N, McConkey S, Bourgeois C, et al. Modelling prevalent cardiovascular disease in an urban indigenous population. Canadian Journal of Public Health. 2022;(accepted).

Basso Dias A, Finelli A, Bauman G, Veit-haibach P, Berlin A, Ortega C, et al. Impact of 18 f-DCFPyL PET on staging and treatment of unfavorable intermediate or high-risk prostate cancer. Radiology. 2022;(online).

Hapsari AP, Ho JW, Meaney C, Avery L, Hassen N, Jetha A, et al. The working conditions for personal support workers in the greater toronto area during the COVID-19 pandemic: A mixed-methods study. Canadian Journal of Public Health. 2022;(online).

Kim SR, Laframboise S, Nelson G, Mccluskey SA, Avery L, Kujbid N, et al. Enhanced recovery after minimally invasive gynecologic oncology surgery to improve same day discharge: A quality improvement project. International Journal of Gynecologic Cancer. 2022;(32 (4),457–465).

O’Brien KK, Brown DA, Bergin C, Erlandson KM, Vera JH, Avery L, et al. Long COVID and episodic disability: Advancing the conceptualisation, measurement and knowledge of episodic disability among people living with long COVID - protocol for a mixed-methods study. BMJ Open. 2022;(12 (3),1–10).

Pinto AD, Hapsari AP, Ho J, Meaney C, Avery L, Hassen N, et al. Precarious work among personal support workers in the greater toronto area: A respondent-driven sampling study. CMAJ Open. 2022;(10 (2),E527–E538).

Ugas MA, Samoil D, Avery L, Berlin A, Giuliani ME, Papadakos TJ, et al. COVID‐19 and patients with cancer: Investigating treatment impact, information sources, and COVID‐19–related knowledge, attitudes, and practices. Cancer. 2022;(128 (4),746–761).

Anaby D, Ryan M, Palisano RJ, Levin MF, Gorter JW, Avery L, et al. Participation during a pandemic: Forging new pathways. Physical and Occupational Therapy in Pediatrics. 2021;(41 (2),115–119).

Avery L, Macpherson A, Flicker S, Rotondi M. A review of reported network degree and recruitment characteristics in respondent driven sampling implications for applied researchers and methodologists. PLOS ONE. 2021;(16 (4),e0249074).

Chiarello LA, Palisano RJ, Avery L, Hanna S. Longitudinal trajectories and reference percentiles for participation in family and recreational activities of children with cerebral palsy. Physical & Occupational Therapy In Pediatrics. 2021;(41 (1),18–37).

Kim SR, Laframboise S, Nelson G, Mccluskey SA, Avery L, Kujbid N, et al. Implementation of a restrictive opioid prescription protocol after minimally invasive gynecologic oncology surgery. International journal of gynecological cancer : official journal of the International Gynecological Cancer Society. 2021;(31 (12),1584–1588).

King G, Mcpherson AC, Kingsnorth S, Gorter JW, Avery L, Rudzik A. Opportunities, experiences, and outcomes of residential immersive life skills programs for youth with disabilities. Disability and Rehabilitation. 2021;(43 (19),2758–2768).

Noguchi KS, O’Brien KK, Aubry RL, Carusone SC, Avery L, Solomon P, et al. Construct validity and responsiveness of the rapid assessment of physical activity in adults living with HIV. Archives of Rehabilitation Research and Clinical Translation. 2021;(3 (4),100164).

O’Brien KK, Bayoumi AM, Carusone SC, Davis AM, Aubry R, Avery L, et al. Disability and self-care living strategies among adults living with HIV during the COVID-19 pandemic. AIDS Research and Therapy. 2021; 1–13.

O’Brien KK, Dzingina M, Harding R, Gao W, Namisango E, Avery L, et al. Developing a short-form version of the HIV disability questionnaire (SF-HDQ) for use in clinical practice: A rasch analysis. Health and Quality of Life Outcomes. 2021;(19 (1),1–21).

O’Brien KK, Davis AM, Chan Carusone S, Avery L, Tang A, Solomon P, et al. Examining the impact of a community-based exercise intervention on cardiorespiratory fitness, cardiovascular health, strength, flexibility and physical activity among adults living with HIV: A three-phased intervention study. Plos One. 2021;(16 (9),e0257639).

Piedimonte S, Bernardini M, May T, Laframboise S, Ferguson S, Bouchard-fortier G, et al. Treatment outcomes and predictive factors in patients 70 years and older with advanced ovarian cancer. Gynecologic Oncology. 2021;(162 (November),S313).

Alghamdi MS, Chiarello LA, Avery L, Palisano RJ. Ease of caregiving for children: Re-validation of psychometric properties of the measure for children with cerebral palsy up to 11 years of age. Developmental Neurorehabilitation. 2020;(23 (3),166–175).

Anaby D, Avery L, Gorter JW, Levin MF, Teplicky R, Turner L, et al. Improving body functions through participation in community activities among young people with physical disabilities. Developmental Medicine & Child Neurology. 2020;(62 (5),640–646).

Avery L, Rotondi M. More comprehensive reporting of methods in studies using respondent driven sampling is required: A systematic review of the uptake of the STROBE-RDS guidelines. Journal of Clinical Epidemiology. 2020;(117,68–77).

Bjornson K, Fiss A, Avery L, Wentz E, Kerfeld C, Cicirello N, et al. Longitudinal trajectories of physical activity and walking performance by gross motor function classification system level for children with cerebral palsy. Disability and Rehabilitation. 2020;(42 (12),1705–1713).

Linkewich E, Avery L, Rios J, Mcewen SE. Minimal clinically important differences in functional independence after a knowledge translation intervention in stroke rehabilitation. Archives of Physical Medicine and Rehabilitation. 2020;(101 (4),587–591).

Mccoy SW, Palisano R, Avery L, Jeffries L, Laforme Fiss A, Chiarello L, et al. Physical, occupational, and speech therapy for children with cerebral palsy. Developmental Medicine and Child Neurology. 2020;(62 (1),140–146).

Palisano RJ, Chiarello LA, Avery L, Hanna S. Self-care trajectories and reference percentiles for children with cerebral palsy. Physical and Occupational Therapy in Pediatrics. 2020;(40 (1),62–78).

Rosic T, Avery L, Streiner DL, Ferro MA, Rosenbaum P, Cunningham C, et al. Longitudinal trajectories of depression symptoms in children with epilepsy. Developmental Medicine and Child Neurology. 2020;(62 (5),593–599).

Avery L, Rotondi N, Mcknight C, Firestone M, Smylie J, Rotondi M. Unweighted regression models perform better than weighted regression techniques for respondent-driven sampling data: Results from a simulation study. BMC Medical Research Methodology. 2019;(19 (1),202).

Bartlett DJ, Gorter JW, Jeffries LM, Avery L, Hanna SE, Mccoy W, et al. Longitudinal trajectories and reference centiles for the impact of health conditions on daily activities of children with cerebral palsy. Developmental Medicine and Child Neurology. 2019;(61 (4),469–476).

Fayed N, Avery L, Davis AM, Streiner DL, Ferro M, Rosenbaum P, et al. Parent proxy discrepancy groups of quality of life in childhood epilepsy. Value in Health. 2019;(22 (7),822–828).

Fiss AL, Jeffries L, Bjornson K, Avery L, Hanna S, Westcott Mccoy S. Developmental trajectories and reference percentiles for the 6-minute walk test for children with cerebral palsy. Pediatric Physical Therapy. 2019;(31 (1),51–59).

Jeffries LM, Laforme Fiss A, Westcott Mccoy S, Bartlett D, Avery L, Hanna S. Developmental trajectories and reference percentiles for range of motion, endurance, and muscle strength of children with cerebral palsy. Physical Therapy. 2019;(99 (3),329–338).

Laforme Fiss A, Mccoy SW, Bartlett D, Avery L, Hanna SE. Developmental trajectories for the early clinical assessment of balance by gross motor function classification system level for children with cerebral palsy. Physical Therapy. 2019;(99 (2),217–228).

Mcewen SE, Donald M, Jutzi K, Allen KA, Avery L, Dawson DR, et al. Implementing a function-based cognitive strategy intervention within inter-professional stroke rehabilitation teams: Changes in provider knowledge, self-efficacy and practice. PLoS ONE. 2019;(14 (3),1–17).

Anaby DR, Law M, Feldman D, Majnemer A, Avery L. The effectiveness of the pathways and resources for engagement and participation (PREP) intervention: Improving participation of adolescents with physical disabilities. Developmental Medicine and Child Neurology. 2018;(60 (5),513–519).

Bartlett DJ, Mccoy SW, Chiarello LA, Avery L, Galuppi B, Team TOTS, et al. A collaborative approach to decision making through developmental monitoring to provide individualized services for children with cerebral palsy. Physical Therapy. 2018;(98 (10),865–875).

Palisano RJ, Avery L, Gorter JANW, Galuppi B, Mccoy SW, Gorter JANW, et al. Stability of the gross motor function classification system, manual ability classification system, and communication function classification system. Developmental Medicine & Child Neurology. 2018;(60 (10),1026–1032).

Anaby D, Korner-Bitensky N, Steven E, Tremblay S, Snider L, Avery L, et al. Current rehabilitation practices for children with cerebral palsy: Focus and gaps. Physical and Occupational Therapy in Pediatrics. 2017;(37 (1),1–15).

Ferro MA, Avery L, Fayed N, Streiner DL, Cunningham CE, Boyle MH, et al. Child- and parent-reported quality of life trajectories in children with epilepsy: A prospective cohort study. Epilepsia. 2017;(58 (7),1277–1286).

Imms C, King G, Majnemer A, Avery L, Chiarello L, Palisano R, et al. Leisure participation–preference congruence of children with cerebral palsy: A children’s assessment of participation and enjoyment international network descriptive study. Developmental Medicine and Child Neurology. 2017;(59 (4),380–387).

King G, Orchard C, Khalili H, Avery L. Refinement of the interprofessional socialization and valuing scale (ISVS-21) and development of 9-item equivalent versions. Journal of Continuing Education in the Health Professions. 2016;(36 (3),171–177).

King G, Rigby P, Avery L. Revised measure of environmental qualities of activity settings (MEQAS) for youth leisure and life skills activity settings. Disability and Rehabilitation. 2016;(38 (15),1509–1520).

Anaby D, Law M, Coster W, Bedell G, Khetani M, Avery L, et al. The role of the environment in explaining participation in the home, school and community: Results of a structural equation modelling. International Journal of Developmental Neuroscience. 2015; (47,53–54).

Anaby D, Law M, Coster W, Bedell G, Khetani M, Avery L, et al. The mediating role of the environment in explaining participation of children and youth with and without disabilities across home, school, and community. Archives of Physical Medicine and Rehabilitation. 2014;(95 (5),908–917).

Chiarello LA, Palisano RJ, Mccoy SW, Bartlett DJ, Wood A, Chang HJ, et al. Child engagement in daily life: A measure of participation for young children with cerebral palsy. Disability and Rehabilitation. 2014;(36 (21),1804–1816).

Ward KD, Chiarello LA, Bartlett DJ, Palisano RJ, Mccoy SW, Avery L. Ease of caregiving for children: A measure of parent perceptions of the physical demands of caregiving for young children with cerebral palsy. Research in Developmental Disabilities. 2014;(35 (12),3403–3415).

Avery L, Russell DJ, Rosenbaum PL. Criterion validity of the GMFM-66 item set and the GMFM-66 basal and ceiling approaches for estimating GMFM-66 scores. Developmental Medicine and Child Neurology. 2013;(55 (6),534–538).

King G, Imms C, Palisano R, Majnemer A, Chiarello L, Orlin M, et al. Geographical patterns in the recreation and leisure participation of children and youth with cerebral palsy: A CAPE international collaborative network study. Developmental Neurorehabilitation. 2013;(16 (3),196–206).

Bartlett DJ, Hanna SE, Avery L, Stevenson RD, Galuppi B. Correlates of decline in gross motor capacity in adolescents with cerebral palsy in gross motor function classification system levels III to v: An exploratory study. Developmental Medicine and Child Neurology. 2010;(52 (7),1–6).

Russell DJ, Rivard LM, Walter SD, Rosenbaum PL, Roxborough L, Cameron D, et al. Using knowledge brokers to facilitate the uptake of pediatric measurement tools into clinical practice: A before-after intervention study. Implementation Science. 2010;(5 (1),92).

Hanna SE, Rosenbaum PL, Bartlett DJ, Palisano RJ, Walter SD, Avery L, et al. Stability and decline in gross motor function among children and youth with cerebral palsy aged 2 to 21 years. Developmental Medicine & Child Neurology. 2009;(51 (4),295–302).

Avery L, Russell DJ, Raina PS, Walter SD, Rosenbaum PL. Rasch analysis of the gross motor function measure: Validating the assumptions of the rasch model to create an interval-level measure. Archives of Physical Medicine and Rehabilitation. 2003;(84 (5),697–705).

Russell DJ, Avery L, Rosenbaum PL, Raina PS, Walter SD, Palisano RJ. Improved scaling of the gross motor function measure for children with cerebral palsy: Evidence of reliability and validity. Physical Therapy. 2000;(80 (9),873–885).