

TONA M. PITT

EDUCATION

- 2022 – Present **PhD** Medical Sciences, University of Calgary
Dissertation: “*The Influence of Early Life Urban Environment Exposures on Child Mental Health*”
Supervisors: Dr. Sheila McDonald & Dr. Suzanne Tough
- 2016 – 2018 **MSc** Community Health Sciences (Population/Public Health), University of Calgary
Thesis: “*Determining the Cause of Motor-Vehicle Related Paediatric Bicycling Injuries*”
Supervisor: Dr. Brent Hagel
- 2010 – 2015 **BSc** Kinesiology, University of Calgary

RESEARCH EXPERIENCE

- 2025/07 – Present **Epidemiology Research Associate.** Cancer Epidemiology and Prevention Research, Cancer Care Alberta & Department of Oncology, University of Calgary.
- 2025/01 – 2025/04 **Visiting Graduate Student**, Scripps Institution of Oceanography. University of San Diego, California.
Project: “*Wildfire PM_{2.5} exposure and emergency department utilization in the first year of life*”
Supervisor: Dr. Tarik Benmarhnia
- 2021/01 – 2022/06 **Research Analyst**, All Our Families Cohort. Department of Paediatrics. University of Calgary.
- 2017/01 – 2022/04 **Research Coordinator**, Child Active Transportation Safety and the Environment Study. Department of Paediatrics. University of Calgary.

EDUCATIONAL ACTIVITIES

- 2025/09 – 2025/12 Teaching Assistant, MDSC203, Developing Health Research Literacy I, Bachelor of Health Sciences Program. University of Calgary.
- 2017/09 – 2017/12 Teaching Assistant, MDSC203, Developing Health Research Literacy I, Bachelor of Health Sciences Program. University of Calgary.

AWARDS

2023 – 2026	CIHR Canada Graduate Scholarship – Doctoral (\$40,000/year)
2026	Alberta Children’s Hospital Research Institute Travel Award (\$500)
2025	CIHR Michael Smith Foreign Study Supplement (\$6,000)
2024	Medical Science Graduate Program Travel Award (\$1,500)
2024	Medical Science Graduate Program Publication Award (\$250)
2022	Doctoral Entrance Scholarship, University of Alberta (\$21,000). Declined.
2018	Alberta Graduate Student Scholarship, Government of Alberta (\$3,000)
2018	UCalgary Profiling Alberta Graduate Students Award (\$800)
2017	Alberta Children’s Hospital Research Institute Travel Award (\$1,200)

GRANTS

2025/04 – 2031/03 \$719,098	<i>Adolescent Mental Health in the Face of Climate Change: Gaining Longitudinal Insights from the All Our Families Cohort</i> CIHR Project Grant. Co-Investigator (Co-PIs: Dr. Sheri Madigan and Dr. Suzanne Tough)
2021/01 – 2022/04 \$24,645	<i>Creating an Evaluation Kit That Reinforces Implementation of the City of Calgary Neighbourhood Streets Pilot Policy.</i> Urban Alliance Grant, City of Calgary Collaborator (PI: Dr. Brent Hagel)
2019/09 – 2021/09 \$46,727	<i>Evaluating Policy Relevant Aspects of Motor Vehicle Safety in Children and Youth.</i> Healthy Outcomes Fund II Grant, Alberta Health Services Collaborator (PI: Dr. Brent Hagel)
2019/01 – 2020/05 \$10,000	<i>A Review of Canadian Evidence on the Relations Between Urban Form and Health in Children and Adolescents.</i> O’Brien Institute for Public Health Catalyst Grant Collaborator (Co-PIs: Dr. Brent Hagel and Dr. Gavin McCormack)

PEER-REVIEWED MANUSCRIPTS

1. **Pitt TM**, Macpherson A, Fridman L, Hagel BE, Winters M, Cloutier MS, HubkaRao T, Fuselli P, Howard A, Rothman L. Risky driving behaviours at school drop-off across Canadian municipalities: Findings from the Child Active Transportation Safety and the Environment (CHASE) study. *Traffic injury prevention*. 2025 Mar 12:1-5.

2. Binter AC, Doiron D, Shareck M, **Pitt TM**, McDonald SW, Subbarao P, Fraser W, Tough SC, Brook J, Guxens M. Urban environment during pregnancy, cognitive function, motor function, and externalizing and internalizing symptoms at 2-5 years old in 3 Canadian birth cohorts. *Environment International*. 2025 Jan 1:109222.
3. Racine N, **Pitt TM**, Premji S, McDonald S, Patten S, Tough S, Madigan S. Prevalence of common child mental health disorders using administrative health data and parent report in a prospective community-based cohort from Alberta, Canada. *The Canadian Journal of Psychiatry*. 2024 Oct;69(10):768-77.
4. **Pitt TM**, Hetherington E, Adhikari K, Premji S, Racine N, Tough SC, McDonald S. Developing non-response weights to account for attrition-related bias in a longitudinal pregnancy cohort. *BMC Medical Research Methodology*. 2023 Dec 14;23(1):295.
5. Caplan L, Lashewicz B, **Pitt TM**, Aucoin J, Fridman L, Hubkarao T, Pike I, Howard AW, Macpherson AK, Rothman L, Cloutier MS. Blame attribution analysis of police motor vehicle collision reports involving child bicyclists. *Injury prevention*. 2023 Jun 9.
6. **Pitt TM**, Rowe BH, Hicks A. You exhaust me! Air pollution exposure near schools during pick-up and drop-off times. *Paediatrics & Child Health*. 2023 Aug;28(5):275-277
7. Richmond SA, Buchan C, **Pitt TM**, Medeiros A, Pike I, Hagel BE, Rothman L, Macarthur C, Macpherson A. The effectiveness of built environment interventions embedded in road safety policies in urban municipalities in Canada: an environmental scan and targeted literature review. *Journal of Transport & Health*. 2022 Dec 1;27:101494.
8. McCulloch E, Macpherson A, Giles A, Buchan C, Pike I, Torres JJ, Fuselli P, **Pitt TM**, Tavakolfar P, Desrochers E, Richmond SA. Barriers and facilitators to built environment change for road safety in Canada: Utilizing the Consolidated Framework for Implementation Research (CFIR). *Journal of Transport & Health*. 2022 Dec 1;27:101478.
9. Rafiee A, Beatriz-Ospina M, **Pitt TM**, Quemerais B. Oxidative Stress and DNA Damage Resulting from Welding Fumes Exposure among Professional Welders: A Systematic Review and Meta-analysis. *Environmental Research*. 2022 Aug 27:114152.
10. Wollny K, **Pitt TM**, Brenner D, Metcalfe A. Predicting Prolonged Length of Stay in Hospitalized Children with Respiratory Syncytial Virus. *Pediatric Research*. 2022 Mar; 17:1-7.
11. **Pitt TM**, Howard AW, HubkaRao T, Hagel B. The Effectiveness of Booster Seat Use in Motor Vehicle Collisions. *Accident Analysis & Prevention*. 2021 Sep;159:106296
12. **Pitt TM**, Howard AW, HubkaRao T, Hagel B. Identifying Modifiable Factors Related to Novice Adolescent Driver Fault in Motor Vehicle Collisions. *Traffic Injury Prevention*. 2021 Aug;22(6):437-42.
13. **Pitt TM**, Aucoin J, HubkaRao T, Goopy S, Cabaj J, Hagel B, McCormack GR. The Relationship of Urban Form on Children and Adolescent Health Outcomes: A Scoping Review of Canadian Evidence. *International Journal of Environmental Research and Public Health*. 2021 Jan;18(8):4180.

14. **Pitt TM**, Nettel-Aguirre A, McCormack GR, Howard AW, Piatkowski C, Rowe BH, Hagel BE. Child and adolescent bicycling injuries involving motor vehicle collisions. *Injury Epidemiology*. 2019 Dec;6(1):1-7.
15. **Pitt TM**, Nettel-Aguirre A, McCormack GR, Howard AW, Rowe BH, Hagel BE. Identifying motorist characteristics associated with youth bicycle–motor vehicle collisions. *Traffic Injury Prevention*. 2019 Oct;20(7):744-8.
16. Fridman L, **Pitt T**, Rothman L, Howard A, Hagel B. Driver and road characteristics associated with child pedestrian injuries. *Accident Analysis & Prevention*. 2019 Oct;131:248-53.
17. **Pitt TM**, Aucoin J, Nettel-Aguirre A, McCormack GR, Howard AW, Graff P, Rowe BH, Hagel BE. Adaptation of a Canadian culpability scoring tool to Alberta police traffic collision report data. *Traffic Injury Prevention*. 2019 Mar;20(3):270-5.

CONFERENCE PAPERS

1. Caplan L, Hagel B, Lashewicz B, **Pitt TM**, Aucoin J, Fridman L, HubkaRao T, Pike I, Howard A, Macpherson A, Rothman L, Cloutier MS. Blame Attribution Analysis of Police Motor Vehicle Collision Reports Involving Child Bicyclists. *Canadian Association of Road Safety Professionals Conference*. 2021.

TECHNICAL REPORTS

1. McDonald S, Madigan S, McArthur B, Wu M, **Pitt TM**, Nixdorff H, Tough S. Experiences of Albertan Children During the Covid-19 Pandemic: A Technical Report from The All Our Families Cohort. Calgary, Alberta: University of Calgary; 2021.

PRESENTATIONS

CONFERENCE ABSTRACTS (International)

1. **Pitt TM**, Teyton A, Bandoli G, Benmarhnia T. Wildfire PM_{2.5} Exposure and Emergency Department Use in the First Year of Life. *Society for Epidemiologic Research Annual Meeting*. June 10-26, 2025. Boston, Massachusetts, USA.
2. **Pitt TM**, McCormack GR, Ospina MB, Tough SC, McDonald SW. Neighbourhood features related to child physical activity, sleep, and mental health during the COVID-19 pandemic: Results from the All Our Families Study. *Society for Epidemiologic Research Annual Meeting*. June 17-21, 2024. Austin, Texas, USA.
3. **Pitt TM**, Macpherson A, Fridman L, Hagel BE, Winters M, Cloutier MS, HubkaRao T, Fuselli P, Howard A, Rothman L. Driving Behaviours at school drop-off across Canadian municipalities: Findings from the Child Active Transportation Safety and the Environment (CHASE) study. *Transportation Research Procedia*. 2023 World Conference on Transport Research. Montreal, Canada.
4. Richmond S, Buchan C, **Pitt T**, Medeiros A, Pike I, Rothman L, Macarthur C, Hagel B, Fuselli P, Macpherson A. 316 Using evidence in the decision-making pathway: Resources

- to assist road safety practitioners. *Injury Prevention*. 2022; 28 (Suppl 2):A47-A48. (World Safety Conference 2022)
5. **Pitt T**, Adhikari K, Premji S, McDonald S. Developing non-response weights to account for attrition-related bias in a longitudinal pregnancy cohort. *International Journal of Population Data Science*. 2022;7(3). (International Population Data Linkage Network Conference)
 6. **Pitt TM**, Howard AW, HubkaRao T, Hagel BE. Identifying modifiable factors related to novice driver fault in motor vehicle collisions. *Injury Prevention*. 2021;27(Suppl 2):A1–A79. (World Conference on Injury Prevention).
 7. **Pitt TM**, Howard AW, HubkaRao T, Hagel BE. (2021). The Effectiveness of Booster Seat Use in Motor Vehicle Collisions. *Injury Prevention*. 2021;27(Suppl 2):A1–A79. (World Conference on Injury Prevention).
 8. Fridman L, **Pitt T**, Rothman L, Howard A, Hagel B. Pedestrian motor-vehicle collision (PMVC) related injuries in children and youth—a case control study. *Injury Prevention*. 2018;24(Suppl 1):A1–A278. (World Conference on Injury Prevention)

CONFERENCE ABSTRACTS (National)

1. **Pitt TM**, Truong T, Shulte F, Shahid R, Liu X, Gibson P, Fidler-Benaoudia M. (2025). Geographic access to paediatric cancer Centres in Canada. Canadian Cancer Research Conference.
2. **Pitt TM**, Malzer J, Lee C, McCormack GR, Hagel B. (2021). Identifying Metrics to Measure the Success of Built Environment Interventions: A Rapid Scoping Review. Canadian Association of Road Safety Professionals 2021. Virtual. (Poster).
3. McCulloch E, Macpherson A, Giles A, Buchan C, Pike I, Torres JJ, Fuselli P, **Pitt TM**, Tavakolfar P, Desrochers E, Richmond SA. Barriers and facilitators to built environment (BE) change: A cross-sectoral analysis illustrating the priority of vulnerable road users. Canadian Association of Road Safety Professionals 2021. Virtual.
4. Aucoin J, Hou M, HubkaRao T, **Pitt TM**, Zanutto M, Ling R, Doan Q, Beno S, Stang A, Howard A, McCormack G, Nettel-Aguirre A, Winters M, Hagel B. (2021). An investigation of the age-stratified mechanisms of injury and built environment risk factors for youth bicyclists in three Canadian cities. Canadian Association of Road Safety Professionals Conference 2021. Virtual.
5. Wollny K, **Pitt TM**, Brenner D, Metcalfe A. (2020) Predicting Prolonged Length of Stay in Hospitalized Children with RSV. Children's Healthcare Canada Conference. Virtual. (Poster).
6. Richmond SA, Buchan C, **Pitt TM**, Fridman L, Pike I, Fuselli P, Macpherson A. (2020). Using evidence as part of the decision-making pathway: A resource to assist practitioners in road safety. Canadian Association of Road Safety Professionals Conference 2020.
7. **Pitt TM** & Hagel B. The Epidemiology of Motor Vehicle Related Pedestrian and Bicyclist Collisions in Canada: 1999-2017. (2020). Canadian Association of Road Safety Professionals Conference 2020.

8. **Pitt TM**, Howard A, HubkaRao T, Hagel BE. (2020). The effectiveness of booster seat use in motor vehicle collisions. Canadian Association of Road Safety Professionals Conference 2020.
9. **Pitt TM**, Howard A, HubkaRao T, Hagel BE. (2020). Identifying modifiable factors related to novice driver fault in motor vehicle collisions. Canadian Association of Road Safety Professionals Conference 2020.
10. **Pitt TM**, McCormack GR, Aucoin J, Hubka T, Cabaj J, Goopy S, Hagel BE. (2019). A Scoping Review of Canadian Evidence on the Relations Between Urban Form and Health in Children and Adolescents. Canadian Association of Road Safety Professionals Conference 2019.
11. Richmond SA, **Pitt TM**, Siladi T, Fridman L, Fuselli P, Pike I, Macpherson A. (2019) Evaluating the quality of evidence on built environment interventions within road safety public policies across five urban traffic environments in Canada. Canadian Association of Road Safety Professionals Conference 2019.
12. Fridman L, **Pitt TM**, Rothman L, Howard AW, Hagel BE. (2019). Driver and built environment characteristics associated with child pedestrian injuries. Canadian Association of Road Safety Professionals Conference 2019.
13. Fridman L, **Pitt T**, Rothman L, Soleil-Cloutier MS, Howard A, Hagel B., Macpherson A. (2018). Traffic Calming Policies in Canada: A Comparison of Strategies Between Two Major Cities. Canadian Association of Road Safety Professionals Conference 2018.
14. **Pitt T**, Graff P, Howard A, Nettel-Aguirre A, McCormack G, Owens L, Anderson M, Rowe BH, Hagel B. (2018). Identifying Motorist Risk Factors for Paediatric Bicycle-Motor Vehicle Collisions. Canadian Association of Road Safety Professionals Conference 2018.
15. **Pitt T**, Aucoin J, Graff P, Howard A, Nettel-Aguirre A, McCormack G, Owens L, Anderson M, Rowe BH, Hagel B. (2018). Adaptation of a Canadian Culpability Scoring Tool to Alberta Police Traffic Collision Report Data. Canadian Association of Road Safety Professionals Conference 2018.
16. **Pitt T**, Piatkowski C, Farias M, Graff P, Owens L, Howard A, Nettel-Aguirre A, Rowe BH, Patel A, Hagel B. (2017). Child and adolescent bicycling injuries involving motor vehicle collisions. Canadian Association of Road Safety Professionals Conference 2017.

CONFERENCE ABSTRACTS (Local)

1. **Pitt TM**, Teyton A, Benmarhnia T. Wildfire PM_{2.5} exposure and emergency department utilization in the first year of life. (2025). CSM Research Day. Calgary, Canada. (Poster).
2. **Pitt TM**, Hetherington E, Adhikari K, Premji S, Racine N, Tough SC, McDonald S. (2023). Developing non-response weights to account for attrition-related bias in a longitudinal pregnancy cohort. Owerko Centre Conference. Calgary, Alberta. (Poster)
3. **Pitt TM**, Hetherington E, Adhikari K, Premji S, Racine N, Tough SC, McDonald S. (2023). Developing non-response weights to account for attrition-related bias in a longitudinal pregnancy cohort. CSM Research Day. Calgary, Alberta. (Poster)

4. Adeboye PA, **Pitt TM**, Wu M, McDonald S, Tough S. (2021). Experiences of Albertan Families with Young Children during the Third Wave of the COVID-19 Pandemic: A Descriptive Report. HBI, ACHRI & Owerko Centre Summer Student Symposium Virtual. (Poster).
5. Ferri M, **Pitt TM**, Malzer J, Lee C, McCormack GR, Hagel B. (2021). Identifying Metrics to Measure the Success of Built Environment Interventions: A Rapid Scoping Review. HBI, ACHRI & Owerko Centre Summer Student Symposium Virtual. (Poster).
6. Osman Z, **Pitt TM**, Aucoin J, HubkaRao T, Hagel BE. (2021). Identifying the Built Environment Features of Child Bicyclist Injury Locations in Calgary, Alberta. HBI, ACHRI & Owerko Centre Summer Student Symposium. Virtual. (Poster).
7. Aryal S, Aucoin J, HubkaRao T, **Pitt TM**, Hagel BE. (2021). Children's Perceptions of Bicycling Safety and Danger After Sustaining a Bicycling Injury. HBI, ACHRI & Owerko Centre Summer Student Symposium. Virtual. (Poster).
8. Ju E, Aucoin J, HubkaRao T, **Pitt TM**, Hagel BE. (2021). Characteristics of Injured Child and Adolescent Bicyclists in Calgary, Alberta. HBI, ACHRI & Owerko Centre Summer Student Symposium. Virtual. (Poster).
9. Caplan L, **Pitt TM**, Aucoin J, Fridman L, HubkaRao T, Pike I, Howard A, Macpherson A, Rothman L, Cloutier MS, Lashewicz B, Hagel B. (2021). Blame Attribution Analysis of Police Motor Vehicle Collision Reports Involving Child Bicyclists. Campus Alberta Student Conference on Health. Virtual.
10. Aryal S, **Pitt TM**, Aucoin J, HubkaRao T, Hagel BE. (2020). Examining Inter-rater Reliability of Google Street View when Assessing Road Characteristics on Child Bicycling Routes Leading to Injury. HBI, ACHRI & Owerko Centre Summer Student Symposium. Virtual.
11. Osman Z, **Pitt TM**, Aucoin J, HubkaRao T, Hagel BE. (2020). Assessing the Inter-rater Reliability of Google Street View Auditors Investigating Child Bicyclist Injury Sites in Three Canadian Cities. HBI, ACHRI & Owerko Centre Summer Student Symposium. Virtual.
12. Adeboye PA, Aucoin J, **Pitt TM**, HubkaRao T, Hagel BE. (2020). The Reliability and Validity of Google Street View for the Assessment of Intersection Characteristics on Child Bicyclist Routes. HBI, ACHRI & Owerko Centre Summer Student Symposium. Virtual. (Poster).
13. **Pitt TM** & Hagel B. The Epidemiology of Motor Vehicle Related Pedestrian and Bicyclist Collisions in Canada: 1999-2017. (2019). Alberta Children's Hospital Research Institute Research Retreat. (Poster).
14. Dong MH, HubkaRao T, Aucoin J, **Pitt TM**, Hagel BE. (2019) Bicycling Injuries and Age-Specific Interactions with the Built Environment. Markin USRP Student Research Mini-Symposium
15. **Pitt T**, Piatkowski C, Farias M, Graff P, Owens L, Howard AW, Nettel-Aguirre A, Rowe BH, Patel A, Hagel BE. (2017). Risk Factors for Severe Motor Vehicle Related Paediatric Bicycling Injuries. Alberta Children's Hospital Research Institute Research Symposium

16. Piatkowski C, **Pitt T**, Farias, M., Graff, P, Owens L, Howard AW, Nettel-Aguirre A, Rowe BH, Patel A, Hagel B. (2017). Risk Factors for Severe Motor Vehicle Related Paediatric Bicycling Injuries. Markin USRP Student Research Mini-Symposium. (Poster).
17. Aucoin J, **Pitt T**, Graff P, Nettel-Aguirre A, Howard A, McCormack G, Owens L, Anderson M, Rowe BH, Hagel B. (2017). Adaptation of a Canadian Culpability Scoring Tool for Motor Vehicle Collisions Reported to Alberta Police Traffic Reports. Alberta Children's Hospital Research Institute Summer Student Research Day
18. Dyck AM, **Pitt T**, Tyndall AV, Poulin MJ. (2016). The Effect of Aerobic Fitness on Cerebrovascular Reserve in Healthy Older Adults. Markin USRP Student Research Mini-Symposium. (Poster).

OTHER ACADEMIC PRESENTATIONS

1. The All Our Families Study: A Longitudinal Albertan Community-Based Cohort. Centre of Health Informatics. University of Calgary. May 20, 2025.
2. Driver and built environment characteristics associated with child pedestrian injuries. Alberta Children's Hospital Healthy Outcomes Rounds. Calgary. February 19, 2019.
3. An Environmental Scan of Policy Documents Related to Road Traffic Safety in Canada. Child Active Transportation Safety and the Environment Webinar Series. March 6, 2018.
4. Risk Factors for Severe Motor Vehicle Related Paediatric Bicycling Injuries. Alberta Children's Hospital Research Institute Trainee Presentations Series. December 16, 2017.

MEDIA

1. Unsafe Driving Putting Elementary Students at risk. Global National. April 10, 2025.
<https://globalnews.ca/video/11136022/unsafe-driving-putting-elementary-students-at-risk-across-canada-study-says-2/>

JOURNAL PEER REVIEWER

2024 & 2025	Journal of Transport & Health
2024 & 2025	BMC Public Health
2024	Environment International
2023	Journal of Prevention
2022, 2023	Journal of Adolescent Health
2022	International Journal of Injury Control and Safety Promotion
2021	BMJ Open

GRANT REVIEWER

2022 – 2023	Adjudicator, Student Awards Committee, Graduate Student's Association, University of Calgary
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2017 PolicyWise for Children & Families Research Fall 2017 Grant Competition

OTHER SERVICE

2025 Poster Judge, Charbonneau Cancer Research Institute Summer Student Research Day

2024 Abstract Reviewer, Society for Epidemiologic Research Annual Meeting

2024 Poster Judge, Alberta Children's Hospital/Owerko Summer Student Research Symposium

2022 Abstract Reviewer, Society for Pediatric and Perinatal Epidemiologic Research Conference

2022 Abstract Reviewer, Developmental Origins of Health and Disease World Congress

2019 – 2021 Manuscript & Abstract Reviewer, Canadian Association of Road Safety Professionals Conference

2018 Judge, UCalgary 3 Minute Thesis Competition

2017 Abstract Reviewer, Campus Alberta Student Conference on Health

2017 Registration Volunteer, WALK21 Conference

2017 Registration Volunteer, Campus Alberta Student Conference on Health

2017 – 2018 Student Representative for Population/Public Health, Department of Community Health Sciences, University of Calgary

2017 – 2018 Member, Community Engagement Committee, Graduate Student's Association, University of Calgary