

## Caislin Firth, PhD MPH

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## RESEARCH STATEMENT

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*I am a social epidemiologist interested in unpacking how public policies shape social and built environments, and influence socio-spatial health inequities. This pursuit requires interdisciplinary research methods that prioritize community engagement and intersectoral collaborations, given that the mechanisms of change (policy, zoning, infrastructure) often lie outside the purview of public health and academia.*

## EDUCATION

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2016–2019

### **PhD, Epidemiology**

School of Public Health, University of Washington, Seattle, WA

Dissertation: *Unexpected consequences of cannabis legalization on youth*

Dissertation Chair: Anjum Hajat PhD MPH

2012–2014

### **MPH, Epidemiology & Biostatistics**

School of Medicine, Oregon Health & Science University, Portland, OR

Thesis: *Assessing the effects of changes to the nutritional environment at Coffee Creek Correctional Facility-Minimum on inmates with diabetes*

Thesis Chair: Katrina Hedberg MD MPH

2008–2011

### **BS, Community Health**

College of Urban and Public Affairs, Portland State University, Portland, OR

## PROFESSIONAL EXPERIENCE

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2021–

### **Research Scientist IV**

Addictions, Drug & Alcohol Institute,  
Psychiatry and Behavioral Sciences Department,  
University of Washington School of Medicine

2021

### **Research Associate**

Institute for Social Research,  
University of Michigan, Ann Arbor, MI

- Lead epidemiologist and biostatistician for NIDDK-funded study (PI: Hicken, M) on racial segregation and kidney disease outcomes using population, epidemiologic, and clinical cohorts

2019–2021

### **Postdoctoral Fellow**

Interventions, Research and Action in Cities (INTERACT) Team,  
Cities, Health, and Active Transportation Research (CHATR) Lab,  
Simon Fraser University, Burnaby, British Columbia, Canada

- Evaluated social-spatial inequities in access to built environment interventions and who benefited from these interventions in a mixed-methods population health intervention research study (PIs: Fuller, D, Kestens, Y, Winters, M), funded by Canadian Institutes of Health Research

- 2019–2021 **Adjunct Policy Analyst**  
RAND Corporation, Santa Monica, CA
- Summer 2019 **Summer Associate**  
RAND Corporation, Santa Monica, CA  
Advisors: Rosalie Pacula, PhD, and Eric Pedersen, PhD
- Social epidemiologist for three NIH-funded studies: 1) Los Angeles young adult cohort, examining substance use trajectories and the effects of cannabis legalization on outcomes (PI: D’Amico, L) 2) substance use intervention for college students traveling abroad (PI: Pedersen, E) 3) the effects of cannabis legalization in OR/WA on population health outcomes (PI: Dilley, J)
- 2018–2019 **Research Assistant**  
Alcohol and Drug Abuse Institute, University of Washington, Seattle, WA
- Led recruitment and project coordination for a feasibility study on a cannabis education program for cannabis retailer employees (PI: Carlini, B)
  - Analyzed content of cannabis print advertisements and community-initiated cannabis retailer complaints (PI: Carlini, B)
- 2016–2017 & 2019 **Research Assistant**  
Epidemiology Department, School of Public Health, University of Washington, Seattle, WA
- Led recruitment and coordination for feasibility study on financial coaching in the workplace (PI: Hajat, A)
  - Assessed the impacts of using alternative financial services on health by constructing a longitudinal study from Current Population Survey data (PI: Hajat, A)
- 2016– **On-Call Senior Research & Evaluation Analyst, Program Design & Evaluation Services**  
Oregon Public Health Division & Multnomah County Health Department, Portland, OR
- 2013–2016 **Research & Evaluation Analyst II, Program Design & Evaluation Services**
- Led analysis and knowledge translation for multiple research and evaluation projects: public health and societal impacts of adult cannabis legalization, measuring health disparities, HIV care and treatment, and the health of people involved in the criminal justice system
- 2011–2013 **Research Analyst, Oregon HIV Surveillance**  
Oregon Public Health Division, Oregon Health Authority, Portland, OR
- Coordinated CDC-funded mixed methods HIV surveillance project for people living with HIV who were not engaged in medical care. Disseminated results through fact sheets, annual reports, and presentations to local health departments, external stakeholders, and advisory groups

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#### **PAID CONSULTANCY/CONTRACTS**

- 2020-2021 **Epidemiologist**  
Community Engaged Research Initiative, Simon Fraser University, Burnaby BC
- Co-led with Meg Holden (Director of Urban Studies Program, Simon Fraser University) a community engaged research project with South Vancouver and

Marpole Neighborhood Houses to develop map-based data tools around inequities in funding for social programming and highlight unmet population needs

- 2018-2020      **Research Scientist**  
Alcohol and Drug Abuse Institute, University of Washington, Seattle WA
- High potency cannabis and health report for Washington State Prevention Research Subcommittee (2020)
  - Develop reports on racial disparities in public health and criminal justice outcomes after cannabis legalization (2018, 2019)
- 2019            **Epidemiologist**  
Rainer Theory, Olympia, WA  
Spatial and social inequities in cannabis retailers over time in the Pacific Northwest
- 2018            **Epidemiologist**  
Washington Department of Corrections, Olympia, WA  
Research analyst for Strength in Families, Responsible Fatherhood Opportunities for Reentry and Mobility project, funded by National Institute of Justice

#### AWARDS

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- 2021            **2021 Research Trainee**  
Michael Smith Foundation of Health Research, Vancouver, BC (\$135,000/3 yrs, declined)
- 2019            **2018 PhD Fellow**  
Horowitz Foundation for Social Policy, New Brunswick, NJ (\$7,500)
- 2019            **North American Cannabis Summit Grant**  
Alcohol & Drug Abuse Institute, Seattle, WA (\$2,500)
- 2019            **Graduate Student Travel Awards**  
Epidemiology department, University of Washington, Seattle, WA (\$500 x2)

#### ADDITIONAL TRAINING

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- 2020-2021      **Indigenous Canada.** University of Alberta, Edmonton, AB [online course]
- 2014–2015      **Filemaker Advanced.** Portland, OR
- August 2013    **Oregon Public Health Policy Institute.** Corvallis, OR  
Project: In the absence of needle exchanges, require pharmacies to sell syringes and sharp containers.

#### TECHNICAL SKILLS

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**Statistical Analysis:** ArcGIS Pro, Microsoft Excel, R Software, SAS, STATA

**Database:** Microsoft Access, Filemaker

**Knowledge Translation:** Adobe InDesign, Microsoft Powerpoint, Microsoft Publisher, R Markdown, Tableau, writing compelling commentary (2020, Informed Opinions, online course)

#### PEER-REVIEWED PUBLICATIONS (FIRST AUTHOR 14/27, H-INDEX: 7, RESEARCHGATE SCORE: 24.42)

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\* *Graduate student trainee as first author.*

- 1) Carlini B, Garrett S, **Firth C**, Pinsky I. (2021). Cannabis industry marketing violations in WA state, 2014-2019. [in press *J of Studies on Alcohol & Drugs*]
- 2) Fuller D, Bell S, **Firth CL**, Muhajarine N, Nelson T, Stanley KS, Sones M, Smith J, Thierry B, Laberee K, Poirier Stephens Z, Philips K, Kestens Y, Winters M (2021). Wave 1 results of the INTerventions, Research, and Action in Cities Team (INTERACT) cohort study: Examining the spatio-temporal measures for urban environments and health. *Health & Place*. 102646. doi: 10.1016/j.healthplace.2021.102646
- 3) Shih RA, Tucker JS, Pedersen ER, Seelam R, Dunbar MS, Kofner A, **Firth C**, D’Amico EJ. (2021). Density of medical and recreational cannabis outlets: Racial/ethnic differences in the associations with young adult intentions to use marijuana, e-cigarettes, and marijuana mixed with tobacco/nicotine. *J of Cannabis Research*. 3(1):28 doi: 10.1186/s42238-021-00084-y
- 4) **Firth CL**, Hosford K, Winters, M. (2021). Who were these bike lanes built for? Social-spatial inequities in Vancouver’s bikeways, 2001–2016. *J Transport Geography*. 94(103122). doi: 10.1016/j.jtrangeo.2021.103122
- 5) Sones M\*, **Firth CL**, Fuller D, Holden M, Kestens Y, Winters M. (2021). Situating social connectedness in healthy cities: A conceptual primer for research and policy. *Cities & Health*. doi: 10.1080/23748834.2021.1926657
- 6) **Firth CL**, Branion-Calles M, Winters M, Harris MA. (2021). Who Bikes? An assessment of leisure and commuting bicycling from the Canadian Community Health Survey. *Transport Findings*. May. doi: 10.32866/001c.22163
- 7) **Firth CL**, Baquero B, Berney R, Hoerster KD, Mooney SJ, Winters W. (2021). Not quite a block party: COVID-19 street reallocation programs in Seattle WA and Vancouver, BC. *SSM-Population Health*. 14(2021) doi: 10.1016/j.ssmph.2021.100769
- 8) Hosford K\*, **Firth CL**, Brauer M, Winters, M. (2021). The effects of road pricing on transportation and health equity: A scoping review. *Transport Reviews*. doi: 10.1080/01441647.2021.1898488
- 9) Carlini B, Garrett SB, **Firth CL**, Harwick R. (2021). Cannabis retail staff (“budtenders”) perceptions of their professional role and potential as public health educators - a study in Washington State, USA. *J of Psychoactive Drugs*. doi: 10.1080/02791072.2021.1900628
- 10) **Firth CL**, Thierry B, Fuller D, Winters M, Kestens Y. (2021). Gentrification, Urban Interventions, and Equity (GENUINE): a map-based gentrification tool for Canadian Metropolitan Areas. *Health Reports*. 32(5). doi: 10.25318/82-003-x202100500002-eng
- 11) Pedersen ER, **Firth C**, Rodriguez A, Shih RA, Seelam R, Kraus L, Dunbar MS, Tucker JS, Kilmer B, D’Amico EJ. (2021). Examining associations between licensed and unlicensed outlet density and cannabis outcomes from reopening to postopening of recreational cannabis outlets. *Am J on Addictions*. doi: 10.1111/ajad.13132
- 12) D’Amico EJ, Rodriguez A, Dunbar MS, **Firth CL**, Tucker JS, Seelam R, Pedersen ER, Davis JP. (2020). Sources of cannabis among young adults and associations with cannabis-related outcomes. *Int J Drug Policy*. 86: 102971. doi: 10.1016/j.drugpo.2020.102971

- 13) **Firth CL**, Poirier Stephens Z, Cantinotti M, Fuller D, Kestens Y, Winters, M. (2020). Successes and failures of built environment interventions: using concept mapping to assess stakeholder perspectives in four Canadian cities. *Social Science & Medicine*. 268. doi: 10.1016/j.socscimed.2020.113383
- 14) **Firth CL**, Fuller D, Wasfi R, Kestens Y, Winters M. (2020). Causally speaking: challenges in measuring gentrification for population health research in the United States and Canada. *Health & Place*. 63: 102350. doi: 10.1016/j.healthplace.2020.102350
- 15) Fiala S, Dilley J, Everson Erik, **Firth C**, Maher J. (2020). Youth exposure to marijuana advertising in Oregon's legal retail marijuana market. *Preventing Chronic Disease*. 17. doi: 10.5888/pcd17.190206
- 16) **Firth CL**, Carlini BH, Dilley J, Wakefield J, Hajat A. (2020). What about equity? Neighborhood deprivation and cannabis retailers in Portland, Oregon. *Cannabis*. 3(2):157-172. doi: 10.26828/cannabis.2020.02.003
- 17) **Firth CL**, LaBrie JW, D'Amico EJ, Klein DJ, Griffin BA, Pedersen ER. (2020). Changes in cigarette, e-cigarette and cannabis use among college students studying abroad. *Substance Use & Misuse*. 55(10): 1683-1691. doi: 10.1080/10826084.2020.1756853
- 18) Pedersen ER, **Firth CL**, Parker J, Shih RA, Davenport S, Rodriguez A, Dunbar MS, Kraus L, Tucker JS, D'Amico EJ. (2020). Locating medical and recreational cannabis outlets for research purposes: online methods and observational study. *J Med Internet Res*.22(2): e16853. doi:10.2196/16853
- 19) **Firth CL**, Hajat A, Dilley J, Braun M, Maher JE. (2020). Implications of cannabis legalization on juvenile justice outcomes and racial disparities. *Am J of Prev Med*. 58(4): 562-569. doi: 10.1016/j.amepre.2019.11.019
- 20) **Firth CL**, Davenport S, Smart R, Dilley J. (2019). How high: differences in the developments of cannabis markets in two legalized states. *Int J Drug Policy*. 75: 102611. doi: 10.1016/j.drugpo.2019.102611
- 21) **Firth CL**, Maher JE, Dilley J, Darnell A, Lovrich NP. (2019). Did marijuana legalization in Washington state reduce racial disparities in adult marijuana arrests? *Substance Use & Misuse*. 54(9): 1582-1587. doi:10.1080/10826084.2019.1593007
- 22) Eisenberg-Guyot J, **Firth C**, Klawitter MM, Hajat A. (2018). From payday loans to pawnshops: fringe banking, the unbanked, and health. *Health Affairs*. 37(3): 429–437. doi: 10.1377/hlthaff.2017.1219
- 23) Fiala S, Dilley J, **Firth C**, Maher J. (2018). Exposure to marijuana marketing after legalization of retail sales: Oregonians' experiences, 2015–2016. *Am J Public Health*. 108: 120–127. doi: 10.2105/AJPH.2017.304136
- 24) Dombrowski JC, Bove J, Roscoe JC, Harvill J, **Firth CL**, Khormooji S, Carr J, Choi P, Smith C, Schafer SD, Golden MR. (2017). "Out of Care" HIV case investigations: A collaborative analysis across 6 states in the Northwest US. *J Acquir Immune Defic Syndr*. 74 suppl 2: S81–S87. doi: 10.1097/QAI.0000000000001237
- 25) **Firth CL**, Sazie E, Hedberg K, Drach L, Maher JE. (2015). Female inmates with diabetes: Results from changes in a prison food environment. *Women's Health Issues*. 25: 732–738. doi: 10.1016/j.whi.2015.07.009
- 26) **Firth CL**, Drach L, Maher JE, Peters CS. (2015). Lack of healthier food alternatives can compromise inmate health. *Am J Public Health*. 105(6): e4-e5. doi: 10.2105/AJPH.2015.302666

27) **Firth CL**, Schafer SD, Greene K. (2014). Monitoring retention in care: Using multiple laboratory tests as an indicator for HIV medical care. *AIDS Care*. 26(12): 1546-9. doi: 10.1080/09540121.2014.936812

#### SUBMITTED OR UNDER REVIEW PUBLICATIONS

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\* Graduate student trainee as first author.

- 1) Doonan SM\*, Johnson JK, **Firth C**, Flores A, Scibelli E, Joshi S. (2021). Diversity in the Massachusetts adult-use cannabis industry at 18-months. [submitted to *Cannabis*]
- 2) **Firth CL**, Warren KM, Perez L, Kilmer B, Shih RA, Tucker JS, D'Amico EJ, Pedersen ER. (2021). Licensed and unlicensed cannabis outlets in Los Angeles County: The potential implications of location for social equity. [submitted to *J of Cannabis Research*]
- 3) Dunbar MS, Seelam R, Tucker JS, **Firth CL**, Pedersen ER, Klein D, Rodriguez A, D'Amico EJ. (2021). Patterns and correlates of cannabidiol product use and co-use with marijuana in a sample of US young adults. [submitted to *J of Studies on Alcohol & Drugs*]
- 4) **Firth CL**, Carlini B, Dilley J, Guttmannova K, Hajat A. (2021). Retail cannabis environment and adolescent use: the role of advertising and retailers near home and school. [submitted to *J of Adolescent Health*]
- 5) Rhee JU\*, Vieira VM, Dunbar MS, **Firth CL**, Pedersen ER, Timberlake DS. (2021). A Spatial Analysis of Cannabis and Tobacco Retailers in Los Angeles County, California. [submitted to *Health & Place*]

#### BOOK CHAPTERS

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- 1) Dilley JA, **Firth CL**, Kilmer B. (2021). Cannabis Legalization in Washington: Policy Evolution and Emerging Evidence from the First Nine Years. In: Pardal M, ed. *Cannabis Social Clubs. Cooperative green?* [under review at *Routledge*]

#### SELECT TECHNICAL REPORTS

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- 1) **Firth CL**, Bearsto J, Winter, M. (2021). *City of Vancouver Slow Streets: perceptions and use*. City of Vancouver, BC. URL is forthcoming.
- 2) Holden M, **Firth CL**, Fassihi F. (2021). South Vancouver Neighbourhood Equity Report. South Vancouver and Marpole Neighbourhood Houses and Community Engaged Research Initiative, Simon Fraser University. URL is forthcoming.
- 3) **Firth CL**. (2021). *Calls to Washington Poison Center for Intentional Exposure to Cannabis, 2017-2020*. Alcohol & Drug Abuse Institute, University of Washington. Retrieved from: <https://www.learnaboutmarijuanawa.org/topics/health-effects/calls-to-wpc-2017-2020/>
- 4) Carlini B, Barbosa-Leiker C, Cuttler C, Dilley J, **Firth CL**, Haggerty K, Kilmer J, McDonell M, Stella N, Walker D, Willits D. (2020). *Cannabis Concentration and Health Risks: A report for the Washington State Prevention Research Subcommittee (PRSC)*. Retrieved from: <https://pttcnetwork.org/sites/default/files/2020-11/Cannabis%20Concentration%20and%20Health%20Risks%202020-11%20Final%20%281%29.pdf>
- 5) **Firth C**, Laberee K, Ross C, Pugh C, Fuller D, Winters M, Kestens Y. (2020). *Understanding and Measuring Well-being in Healthy Cities Research. Interventions, Research, and Action in Cities Team (INTERACT)*. Retrieved from: <https://teaminteract.ca/ressources/wellbeing.pdf>

- 6) **Firth CL**, Thierry B, Fuller D, Winters M, Kestens Y. (2020). *GENUINE: Gentrification, Urban Interventions, and Equity Technical Document*. Gentrification workgroup of Interventions, Research, and Action in Cities Team. Centre de recherche du Centre hospitalier de l'Université de Montréal. Retrieved from: <https://canue.ca/wp-content/uploads/2020/10/GENUINE-tech-guide.pdf>
- 7) Micronesian Islander community leaders: Aisek K, Enlet J, Heldart M, Luka V, Nowell A, Phillip L, Phillip J and Program Design and Evaluation Services: Boles M, Braun M, Cordova D, Dent C, **Firth C**, Maher J, Matson J, Pizacani B. (2020\*). *Community counts: Health status, community strengths, and opportunities within the Chuukese community of Oregon*. Oregon Public Health Division, Oregon Health Authority. [\*publication date has been delayed due to COVID-19, report has not been published online as of March 2021]
- 8) **Firth C**, Carlini B. (2019). *Cannabis Legalization and Racial Disparities in Washington State*. Alcohol & Drug Abuse Institute, University of Washington. Retrieved from: <http://adai.uw.edu/pubs/pdf/2019racialdisparities.pdf>
- 9) **Firth C**. (2018). *Marijuana Legalization in Washington State: Monitoring the Impact on Racial Disparities in Criminal Justice*. Alcohol & Drug Abuse Institute, University of Washington. Retrieved from: <http://adai.uw.edu/pubs/pdf/2018racialdisparitiescrimjustice.pdf>
- 10) Dilley J, **Firth C**, Everson E, Maher J. (2016). *Marijuana Report: Marijuana use, attitudes and health effects in Oregon, December 2016*. Oregon Public Health Division, Oregon Health Authority. Retrieved from: <https://apps.state.or.us/Forms/Served/1e8509b.pdf>
- 11) Dilley J, **Firth C**, Everson E, Maher J. (2016). *Marijuana Report: Marijuana use, attitudes and health effects in Oregon*. Oregon Public Health Division, Oregon Health Authority. Retrieved from: <https://public.health.oregon.gov/PreventionWellness/marijuana/Documents/oha-8509-marijuana-report.pdf>
- 12) Hoffman M, **Firth C**. (2015). *Multnomah County Brownfield Initiative: Mapping Health Equity*. Multnomah County Health Department. [published November 2015, no longer available online as of 2018]
- 13) Gaonkar R, **Firth C**. (2015). *Health Disparities among Pacific Islanders in Multnomah County, A supplement to the 2014 Report on Racial and Ethnic Disparities*. Multnomah County Health Department. Retrieved from: <https://multco.us/file/41217/download>
- 14) Analysis Team: Bhat M, Clapp E, Dent C, **Firth C**, Maher J, McBride D, McSharry McGrath M, Pickle K, Pizacani B, Smith C. (2014). *2014 Report Card on Racial and Ethnic Disparities*. Multnomah County Health Department. Retrieved from: <https://multco.us/file/37530/download>
- 15) **Firth C**, Capizzi J, Schafer S, Helsley R, Latin V. (2013). *Epidemiologic Profile of HIV/AIDS in Oregon*. Oregon Public Health Division, Oregon Health Authority. Retrieved from: <https://www.oregon.gov/oha/PH/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/HIVData/Documents/EpiProfile.pdf>

#### **SELECT PRESENTATIONS: CONFERENCES OR INVITED TALKS**

- 1) **Firth CL**. Where are we going? Inequities in access to bike infrastructure in Vancouver, BC. Invited presentation for HUB Cycling. July 2021.

- 2) **Firth CL**, Hirsch JA, Fuller D, Winters M, Kestens Y. Living in gentrified neighbourhoods, perceptions of gentrification, and health outcomes among adults in Montreal, QC. Presented at International Conference on Urban Health. **Virtual conference**. July 2021.
- 3) Fischer J, **Firth C**, Winters M. Room to move: COVID-19 street reallocations in four Canadian cities. Presented at Transport Justice, American Association of Geographers Annual Meeting. **Virtual conference**. April 2021.
- 4) **Firth C**. Gentrification, Urban Interventions, and Equity (GENUINE). Invited presentation for Urban Health Collaborative, Drexel University, Philadelphia PA, **virtual presentation**. January 2021.
- 5) **Firth CL** and Fuller D. Gentrification, Urban Interventions, and Equity (GENUINE): Advancing healthy cities research on gentrification in Canadian cities. Invited presentation for Physical Activity Policy Research and Evaluation Network, Boston MA, **virtual presentation**. January 2021.
- 6) **Firth C**. *Not quite a block party: COVID-19 Street reallocation programs in Seattle, WA and Vancouver, BC*. Invited presentation for Seattle Bike Advisory Board, Seattle WA, **virtual presentation**. November 2020.
- 7) **Firth C**. *Not quite a block party: COVID-19 Street reallocation programs in Seattle, WA and Vancouver, BC*. Invited presentation for Harborview Injury Prevention & Research Center, Seattle WA, **virtual presentation**. October 2020.
- 8) **Firth C**, Seelam R, Rodriguez A, Shih R, Tucker J, D'Amico E, Pedersen E. *The cannabis retail environment for young adults in Los Angeles: which metrics matter*. Poster presentation at Addiction Health Services Research **virtual conference**. October 2020.
- 9) **Firth C**, Thierry B, Shareck M, Fuller D, Winters M, Kestens Y. *'Third places' and their role for population health: A study in Montreal, Canada*. Presented at American Public Health Association **virtual conference**. October 2020.
- 10) **Firth C**, Fuller D, Kestens Y. *Paved with good intentions: Gentrification and the health and equity impacts of urban change*. Session chair: Poirier Stephens, Z. Symposium presented at Public Health 2020, Canadian Public Health Association **virtual conference**. October 2020.
- 11) **Firth C**, Seelam R, Rodriguez A, Shih R, Tucker J, D'Amico E, Pedersen E. *The cannabis retail environment for young adults in Los Angeles: which metrics matter*. Presented at Research Society on Marijuana **virtual conference**. July 2020.
- 12) Winters M, **Firth C**, Farber S, Palm M, Patterson B. *Livable cities post-COVID: A focus on urban planning and transportation*. Invited to co-host symposium for Simon Fraser University Planetary Health Research Group, Burnaby BC, **virtual presentation**. June 2020.
- 13) **Firth C**, Bahrami M, Adeel Z. *Climate Solutions Innovation Hub*. Invited presentation for City of Burnaby Festival of Learning. Vancouver, BC. May 2020 [**cancelled due to COVID-19**]
- 14) **Firth C**. *For whom? Gentrification and population health consequences*. Presented at Cascadia 2020, Abbotsford, BC. January 2020.



- 15) **Firth CL**, Dilley J, Hajat A, Maher JE. *Juvenile justice in the era of cannabis legalization: does exposure to the cannabis industry matter?* Poster presented at Interdisciplinary Association for Population Health Sciences Conference, Seattle, WA. October 2019.
- 16) **Firth C**. *Moving towards equity: Neighborhood deprivation and cannabis retailers across Portland, Oregon*. Presented at Scientific Community of Practice, Oregon Public Health Division, Oregon Health Authority. Portland, OR. April 2019.
- 17) **Firth C**. *Juvenile marijuana arrests in the era of adult legalization*. Presented at North American Cannabis Summit. Los Angeles, CA. January 2019.
- 18) Garrett SB, **Firth C**, Carlini B. *Marijuana Industry & Advertising Violations in Washington State, 2014–2018*. Poster presentation at North American Cannabis Summit. Los Angeles, CA. January 2019.
- 19) Dilley JA, Hitchcock L, Maher JE, **Firth C**, Fiala SC, Richardson SM, Mack C. *Local Entity Marijuana Policies in the Pacific Northwest Following Statewide Legalization*. Poster presentation at Cannabis Science & Policy Summit. New York City, NY. April 2016.
- 20) Centers for AIDS Research Consortium: Dombrowski J, Bove J, Roscoe JC, Harvill J, **Firth C**, Khormooji S, Carr J, Choi P, Smith C, Schafer SD, Golden MR. *“Out of Care” Case Investigations: A Collaborative Analysis among Six States in the Northwest U.S.* Presented at 2015 National HIV Prevention Conference. Atlanta, GA. December 2015.
- 21) Hoffman M, **Firth C**. *Equitable Development: Promoting Health through Brownfield Capitalization*. Presented at 2015 Oregon Public Health Association Annual Conference. Corvallis, OR. October 2015.
- 22) Andrea SB, Schafer S, **Firth C**. *Predictors of Premature or Unnecessary Cervical Cancer Screening—Oregon, 2010–2014*. Poster presentation at 2015 Council of State & Territorial Epidemiologists Annual Conference. Boston, MA. June 2015.
- 23) **Firth C**. *Marijuana & Opioid Use among people receiving HIV care in Oregon*. Presented at Oregon Epidemiologist’s Meeting. Sunriver, OR. May 2015.
- 24) **Firth C**, Capizzi J, Schafer SD. *Nifty curves: survival analysis among Oregonians diagnosed with HIV, 2004–2013*. Poster presentation at 2014 HIV Surveillance Grantees’ Meeting, Centers for Disease Control & Prevention. Atlanta, GA. December 2014.
- 25) Capizzi J, **Firth C**, Schafer SD. *Unsuppressed HIV viral load and subsequent syphilis infection, Oregon HIV cases reported with primary/secondary syphilis, 2008–2013*. Poster presentation at 2014 HIV Surveillance Grantees’ Meeting, Centers for Disease Control & Prevention. Atlanta, GA. December 2014.
- 26) **Firth C**, Dombrowski J. *Counting the number of people with HIV in Oregon who are truly not getting regular health care*. Presented at Oregon Epidemiologist’s Meeting. Sunriver, OR. May 2014.
- 27) **Firth C**, Drach L. *Eating More and Enjoying it Less: Food Options, Nutrition and Weight Gain among Female Oregon Prison Inmates*. Presented at Oregon Epidemiologist’s Meeting. Sunriver, OR. May 2014.
- 28) **Firth C**. *Monitoring Retention in Care: Using laboratory tests as an indicator for HIV medical care*. Presented at Oregon Epidemiologist’s Meeting. Bend, OR. May 2013.

## MEDIA INTERVIEWS

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1) Kate Eschner. Canada's eviction apocalypse is just beginning. *Canadian Tuxedo*. **phone interview** July 2020. <https://kateschner.substack.com/p/canadas-eviction-apocalypse-is-just>

## KNOWLEDGE TRANSLATION OUTPUTS

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1) Poirier Stephens Z, **Firth CL**. (2020). *Why Collaboration is key to successful implementation of urban change: results from INTERACT's concept mapping*. *The Medium*. <https://link.medium.com/n5t4AT9U29>

2) **Firth CL**, Thierry B, Fuller D, Winters M, Kestens Y. (2020). *GENUINE: Gentrification, Urban Interventions, and Equity (Dataset)*. Hosted by Canadian Urban Environmental Health Research Consortium (CANUE): <https://www.canuedata.ca/canue/metadata.php>

## GRANTS

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*During my postdoctoral fellowship at Simon Fraser University, I led the development and writing of grants that were submitted by mentors as I was able to be PI while in a post-doctoral position. In each application, I led the research, and co-supervised staff. **These grants are identified with \****

### ***Awarded grants as primary investigator***

April 2021- **\*Canadian Institutes of Health Research-Project Grant**. *Gentrification, Urban Interventions, and Equity (GENUINE): advancing healthy city research on gentrification*. (PI, March 2022 submitted: Winters, M (Co-PI), Fuller, D (Co-I), Kestens, Y (Co-I)). Direct costs: \$100,000 (Canadian dollars).

January- **Canadian Institutes of Health Research- Institute of Population and Public Health**. *Travel Award – Canadian Public Health Association 2020*. (PI). Direct costs: \$1,500 December 2020 (Canadian dollars).

### ***Awarded grants as co-investigator***

January 2022- **Canadian Institutes of Health Research Project Grant**. *INTerventions, Equity, Research and Action in Cities Team (INTERACT)*. (co-I, submitted: Fuller, D (PI), Kestens, Y (co-PI) December 2026 Winters, M (co-PI), Bell, S (co-I), Diab, E (co-I), Lord, S (co-I), McKay, H (co-I), Muhajarine, N (co-I), Shareck, M (co-I), Sims-Gould, J (co-I), Sones, M (co-I), Stanley, K (co-I), Therrien, M (co-I), Nelson, T (collaborator)). Direct costs: \$918,000 (Canadian dollars).

April 2021- **Canadian Institutes of Health Research-Project Grant**. *Impacts of the downtown Sherbrooke (QC) revitalization on health equity among young adults: a mixed-methods evaluation*. (co-I, submitted: Shareck, M (PI), Camirand Lemyre, F (Co-I), Fuller, D (Co-I), March 2022 Kestens, Y (Co-I), Morin, P (Co-I), Tougas, A (Co-I), Winters, M (Co-I)). Direct costs: \$100,000 (Canadian dollars). Direct costs: \$100,000 (Canadian dollars).

### ***Submitted grants as primary investigator***

March 2020 **\*Canadian Institutes of Health Research-Planning and Dissemination Grants: Healthy Cities Research Partnership Development**. *Paved with good intentions: Developing a map-based tool of gentrification in pursuit of healthy and equitable Canadian cities*. (PI, submitted: Fuller, D (co-PI), Kestens, Y (Co-I), Marriott, P (knowledge user), Shareck, M (Co-I), Winters, M (Co-I)). Direct costs: \$25,000 (Canadian dollars). **Under review**.

### ***Submitted grants as co-investigator***

- May 2021 **National Institute of Justice (O-NIJ-2021-60004).** *Assessing the effects of decriminalizing drug possession on criminal justice processing and crime outcomes.* (co-I, submitted: Kilmer, B (PI), Dilley, J (co-I), Hunt, P (co-I), Pardo, B (co-I), Taylor, J (co-I), Warren, K (co-I). Direct costs: \$750,000.
- April 2021 **National Institute of Justice (O-NIJ-2021-4003).** *The COVID-19 Pandemic and Juvenile Justice: A National Assessment of Responses, Impacts, and Innovations for the Future.* (co-I, submitted: Hunt, P (co-PI), Labriola, M (co-PI), Matsuda, M (co-I), Taylor, J (co-I). Direct costs: \$600,000.
- October 2020, Resubmission April 2021 **Canadian Institutes of Health Research Project Grant. COHESION Study: COVID-19: HEalth, Seroprevalence and Inequity across Neighbourhoods.** (co-I, submitted: Moullec, G (PI), Kestens, Y (co-PI), Zinszer, K (co-PI), D'Souza, R (co-I), De Groh, M (co-I), Dubé, E (co-I), Hudon, C (co-I), Lessard, L (co-I), Moore, K (co-I), Morrison, K (co-I), Roberge, M (co-I), Simonelli, G (co-I), Smith, B (co-I), Stanley, K (co-I), Stuart Chester, T (co-I), Woodruff Atkinson, S (co-I)). Direct costs: \$975,000 (Canadian dollars). **Under review.**
- March 2020 **Canadian Institutes of Health Research-Planning and Dissemination Grants: Healthy Cities Research Partnership Development.** *Building for Bicycling in Canada's Mid-Sized Cities: Exploring Implementation Science Approaches.* (co-I, submitted: Winters, M (PI)). Direct costs: \$25,000 (Canadian dollars). **Under review.**
- Not funded grants, submitted as primary investigator**
- April 2020 **\*Michael Smith Foundation for Health Research.** *COHESION-BC Study: COVID-19, HEalth and Social InteractiOn in Neighbourhoods in British Columbia.* (PI, submitted: Winters, M (co-PI), Kestens, Y (co-I), Zinszer, K (co-I)). Direct costs: \$150,000 (Canadian dollars) **Not funded.**
- October 2018 **Alcohol and Drug Abuse Institute Small Grants Program.** *Purchasing patterns among customers using recreational marijuana retailers in Multnomah County, Oregon.* (PI). Direct costs: \$20,000 (US dollars). **Not funded.**

## UNIVERSITY SERVICE

### Doctoral committees and advisees

- 2020– Zarah Monfaredi, Faculty of Health Sciences, Simon Fraser University: *Sustainable cities and healthy communities: Examining the short and long-term impacts of street reallocations across three Canadian cities*

### Mentorship

Through the Interventions, Research, and Action Team (INTERACT) trainee program across Canadian universities, I mentor an epidemiology MSc student at McGill who uses INTERACT data for their thesis (Chérine Zaim, thesis title: *Public transit accessibility and well-being indicators in Montréal*). My mentorship supports the development of their research plans, analytic methodologies, and dissemination. Further, I more informally mentor 5 PhD students, seeking degrees in Faculty of Health Sciences and Interdisciplinary Studies at Simon Fraser University and University of British Columbia, within Meghan Winters' Cities, Health, and Active Transportation Research Lab.

### Teaching Experience

No. taught	Course	Capacity	Location	Units	Students

### ***Undergraduate***

x2	EPI 320: Epidemiology	Discussion section lecturer, TA	UW, Seattle	4	174
x1	SPH 380: History & Practice of Public Health	Discussion section lecturer, TA	UW, Seattle	5	116

### ***Graduate***

x2	Social Epidemiology Journal Club	Developed journal club, curriculum, co-facilitator	SFU/UBC, Vancouver BC	n/a	50
x1	EPI 510: Epidemiologic Data Analysis	Lecturer and TA	UW, Seattle	3	60

### **SERVICE TO PROFESSION**

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2021–	<b><u>Consulting editor</u></b> <i>Cannabis</i>				
2021	<b><u>Conference abstract reviewer</u></b>	Interdisciplinary Association for Population Health Science			
2021–	<b><u>Volunteer expert counsel</u></b>	Department of Public Defense, King County, Seattle, WA			
2020–2021	<b><u>Cannabis concentration and health risks work group</u></b>	Washington State Prevention and Research Sub Committee, Olympia, WA			
2020–	<b><u>Racism in built environment and health work group</u></b>	Interventions, Action, and Research in Cities Team, Montréal, QC			
2019–	<b><u>Infonauts (culture in evaluation workgroup)</u></b>	Program Design & Evaluation Services, Oregon Public Health Division, Oregon Health Authority, Portland, OR			
2019–	<b><u>BC Healthy Built Environment Alliance-Steering Committee</u></b>	British Columbia Centre for Disease Control, Vancouver, BC			
2014–2017	<b><u>Oregon Environmental Public Health Tracking Advisory Group</u></b>	Oregon Public Health Division, Oregon Health Authority, Portland, OR			

**Ad hoc referee** for *Am J Drug & Alcohol Abuse*, *J of Transport Geography*, *J of Drug & Alcohol Dependence*, *PLOS ONE*, *AIDS Care*, *Addiction*, *Cannabis*, *J of Epidemiology & Community Health*, *Health & Place*

### ***Professional memberships***

American Public Health Association  
Interdisciplinary Association for Population Health Science  
Society for Epidemiologic Research  
Research Society on Marijuana

### **SERVICE TO COMMUNITY**

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2020–2021	<b><u>Volunteer research consultant</u></b> ,	South Vancouver Neighbourhood House, Vancouver BC			
2020–	<b><u>Volunteer</u></b> ,	Rainier Valley – Seattle Neighborhood Greenways, Seattle, WA			
2020–	<b><u>Co-founder</u></b> ,	Just Fine! Cycling Club, Seattle, WA			
2018–	<b><u>Member</u></b> ,	Cascade Bicycle Club, Seattle, WA			