

Gerontology Research Centre Tong Louie Living Lab — 2018/2019, 2019/2020 & 2020/21

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Background

The Tong Louie Living Lab (TLLL) was developed in 1995 with the generous support of an endowment from Dr. Tong Louie. The terms of reference were developed in 1995 and revised in 2000. The TLLL was developed as a collaboration between SFU and BCIT with a mission to enhance independent living and quality of life among older adults through person-environment fit and the development

Organizational Structure and Endowment

The TLLL is overseen by an **Executive Steering Committee** (ESC) (comprised of SFU and BCIT members):

SFU

Andrew Wister (PI), GRC Director, Professor, Gerontology, SFU

Theodore Cosco, GRC Associate Director, Assistance Professor, Gerontology, SFU

Gloria Gutman, GRC Research Associate, Co-lead (with Wister), SFU Living Lab

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GRC Research Productivity Related to Living Lab Research Funding; Publications; Conferences and Media Activities 2016-2020

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Currently Funded Research

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April 1, 2020- March 31, 2025.

April 2019–April 2021

Cosco, T. D.: PI (Co-Is: Kobayashi, L., Mackey, D., **Wister, A.**). Resilience and healthy aging across the life course: A longitudinal analysis of psychological wellbeing and physical adversity. Canadian Institutes of Health Research (CIHR): Canadian Longitudinal Study on Aging (CLSA) Catalyst Grant. Direct to Cosco/GRC: \$66,100.

December 2018–March 1, 2021

Blaber, A.: PI; (Co-Is: **Gutman, G.:** Co-I , McPherson, L., Scarisbrick, T., Tavololian, K. & Xu, D.) From orbit to bedside: Using space-based bed-rest techniques to study cardio-vascular and skeletal muscle-pump orthostatic reflexes with and without a strength and HIT exercise intervention to prevent falls in older adult patients after hospitalization. CIHR. Total: \$200,000.

September 2018–March 31, 2021

Gutman, G.: PI. Feasibility study of an interactive digital technology in reducing bathing-related agitation in a residential care facility. AGE-WELL: SIP Accelerator Program Grant. Total: \$39,979; direct to Gutman/GRC: \$39,079.

March 2017–March 31, 2021

You, J.; PI (Co-Is: **Gutman, G.:**, Howard, M., Kaasalainen, S., Sussman, T., Simon, J., Jayaraman, D., Kobewka, D., ... Heyland, D.) Improving advance care planning for frail elderly Canadians. Canadian Frailty Network. Total: \$2,676,698; Direct to Gutman/GRC: \$356,408).

Completed Research:

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October 2018–August 2019

Gutman, G.: PI (Co-Is: **Chaudhury, H.** & Carr, M.). A pilot clinical trial of an interactive digital technology (MindfulGarden) in treatment of disruptive behavioural and psychological symptoms of dementia in a care home setting. Good Samaritan Delta View Care Centre, Ltd.: Contract. Total: \$82,859; direct to Gutman/GRC: \$82,859.

January 2018–December 2018

Wister, A.: PI (Co-PI: Danielsen, C.; Co-applicants: **Canham, S. L.**; Project Partners/Knowledge Users: Providence Healthcare & Catholic Charities Shelter Services). Determining the feasibility of a medical respite intervention study for older homeless patients in Vancouver, BC. MSFHR: BC SUPPORT Unit Pathway to Patient-Oriented Research (P2P) Grant. Direct to Wister/GRC: \$19,992.56.

April 2017–March 2019

Wister, A.: PI (Co-PI: **Canham, S. L.**, Bosma, H., & Mauboules, C.; Co-Applicants: Greater Vancouver Shelter Society & Providence Healthcare). Supporting partnerships between health and homelessness. Greater Vancouver Shelter Society: Homelessness Partnering Strategy. Direct to Wister/GRC: \$128,135.

March 2017–March 2019

Wister, A.: PI (Co-I: Lear, S., Mackey, D., Rosin, M., & Schuurman, N.). A multi-level analysis of functional, social and psychological multimorbidity resilience and aging. CIHR: CLSA Catalyst Grant. Direct to Wister/GRC: \$70,000.

September 2016–December 2019

Chaudhury, H.: Co-PI. (Co-PIs: Whitehurst, D., McGrail, K., Bryan, S., & Lear, S.). Enhancing autonomy and participation in older adults of British Columbia: An evaluation the Better at Home program. Total: \$322,050.

September 2016–May 2019

Chaudhury, H.: Co-I. (PI: Keller, H.). Making the Most of Mealtimes (M3): Determinants of food intake in long-term care. CIHR: Operating Grant. Total: \$979,160.

September 2018–August 2019

Chaudhury, H.: PI (Co-PI: Hung, L.). Innovating Together: WORKing with technologies in dementia care (IT WORKs). Michael Smith Foundation Health Research (MSFHR): Reach Grant. Total: \$10,000.

April 2015-

Chaudhury, H. & Oswald, F. In the Rearview Mirror: Personal Reflections in Environmental Gerontology. In H. Chaudhury & F. Oswald (Eds.), Annual Review of gerontology and geriatrics (pp. 1–16), Vol. 38. New York, NY: Springer.

Haq, G. & **Gutman, G.** (2020). Climate resilience and older people. In D. Gu and M.E. Dupre (Eds.) Encyclopedia of Gerontology and Population Aging. Springer. First online 11 Feb 2020. https://doi.org/10.1007/978-3-319-69892-2_467-1

Fang, M. L., Woolrych, R., Sixsmith, J., **Canham, S. L.**, Battersby, L., Ren, T. H., & Sixsmith, A. (2018). Integrating sense-of-place within new housing developments: A community-based participatory research approach. In A. M. Goulding, S. B. Davenport, & A. Newman (Eds.), Creative practice in the resilience of older people. Bristol, UK: Policy Press.

Sixsmith, J., Fang, M. L., & **Canham, S. L.** (2018). Co-creating home and community: Building partnerships to support older adults to AGE-WELL-in-place. In E. Peel, C. Holland, & M., Murray (Eds.), Psychologies of ageing: Theory, research and practice (pp. 189–219). London, UK: Palgrave MacMillan.

Sixsmith, J., Fang, M. L., Woolrych, R., **Canham, S. L.**, Battersby, L., & Sixsmith, A. (2018). Aging-in-place for low-income seniors: Living at the intersection of multiple identities, positionalities, and oppressions. In O. Hankivsky & J. Jordan-Zachery (Eds.), Bringing intersectionality to public policy. London, UK: Palgrave MacMillan.

Gutman, G., Kwon, S., Fukuda, R., Guttler, J. F., Georgoulas, C., Linner, T., ... Kwon, S. (2016). Home technologies that support aging in place. In S. Kwon (Ed.) Gerontechnology — Research, practice and principles in the field of technology and aging. New York, NY: Springer.

Park, A. J., Hwang, E., & **Gutman, G.** (2016). Methods in gerontechnology with a focus on virtual environments as a research tool in aging mobility studies. In S. Kwon (Ed.) Gerontechnology — Research, practice and principles in the field of technology and aging (pp.117-133). New York, NY: Springer.

Articles in Refereed Journals:

In Press:

Beaudoin, M., Atoyebi, O., Mortenson, W.B., Auger, C., Demers, L., **Wister, A.**, Plante, M. & Routhier, F. Interviews with family caregivers of older adults: Their experiences of care and the integration of assistive technology in care. *Technology and Disability*.

Fortuna, K.L., Torous, J., Depp, C., Jimenez, D., Arean, P., Walker, R., Akilore, O., Goldstein, C., **Cosco, T.D.**, Brooks, J., Vahia, I., Bartels, S. (2019) A future research agenda for digital geriatric mental health care. *American Journal of Geriatric Psychiatry*. 27(11): 1277-1285.

Peters, S., **Cosco, T. D.**, Mackey, D., Sarohia, G., Leong, J., **Wister, A.** (in press) Quantifying physical resilience in aging using measurement instruments: A scoping review. *Disability and Rehabilitation*.

2020:

de Vries, B., **Gutman, G.**, Soheilipour, S., Gahagan, J., Humble, A., Chamberland, L. & Mock, S. (2020). Advance care planning among older LGBT Canadians: Heteronormative influences. *Sexualities* <https://journals.sagepub.com/doi/10.1177/1363460719896968> .

Ten Brinke, L. F., **Best, J. R.**, Chan, J. L. C., Ghag, C., Erickson, K. I., Handy, T. C., & Liu-Ambro2ii583.0 00c2 1 Tf (-) Tj ET Q q 0.24 0 0 0.24 18 583.92 cm BT :19n0 0 0.24 18 583.tcu92 cmi583

Wister, A., Cosco,

Pang, C., **Gutman, G.** & de Vries, B. (2019) Later life care planning and concerns of transgender older adults in Canada. International Journal of Aging and Human Development, 89 (1) 39-56
<https://doi.org/10.1177/0091415019843520> (first published April 18, 2019).

Peters, S., Cosco, T. D., Mackey, D., Sarohia, G., Leong, J., **Wister, A.** (2019). Methods for quantifying physical resilience in aging: A scoping systematic review protocol. *Systematic Reviews*, 8, 34–40. doi:10.1186/s13643-019-0950-7

Wada, M., **Canham, S. L.,** Battersby, L., Sixsmith, J., Woolrych, R., & Sixsmith, A. (2019). Perceptions of home in long-term care settings: Before and after institutional relocation. *Ageing & Society*, 1–24.
<http://dx.doi.org/10.1177/0091415019843520>

Canham, S. L., Davidson, S., Custodio, K., **Wister, A.**, & Bosma, H. (2018). Health supports needed for homeless persons transitioning from hospital to shelter and housing: A scoping review. *Health & Social Care in the Community*, 1–15.
doi:10.1111/hsc.12599

Canham, S. L., Fang, M. L., Battersby, L., Woolrych, R., Sixsmith, J., Ren, T. H., & Sixsmith, A. (2018). Contextual factors for aging well: Creating socially engaging spaces through the use of deliberative dialogues. *The Gerontologist*, 58(1), 140–148.
doi:10.1093/geront/gnx121

Canham, S. L., Wada, M., Battersby, L., Fang, M. L., & Sixsmith, A. (2018). Experiences of a mass interinstitutional relocation for long-term care staff. *Journal of Housing for the Elderly*, 32(2), 160–175.

Chaudhury, H., Cooke, H., Cowie, H., & Razaghi, L. (2018). The influence of the physical environment on residents with dementia in long-term care settings: A review of the empirical literature. *The Gerontologist*, 58(5), e325–e337.
doi:10.1093/geront/gnw259.

Gutman, G. (2018). Beyond master classes: Other innovative opportunities for training in gerontechnology. *Gerontechnology*, 17, 200s.

Gutman, G., Mock, S., de Vries, B., Humble, A., Gahagan, J., Chamberland, L., & Fast, J. (2018). The role of internet technology in social integration and end-of-life planning of LGBT older adults. *Gerontechnology*, 17, 84s.

Hung, L., Au-Yeung, A., Helmer, C., Ip, A., Elijah, L., Wilkins-Ho, M., & **Chaudhury, H.** (2018). Feasibility and acceptability of an iPad intervention to support dementia care in the hospital setting. *Contemporary Nurse*, 54(4–5), 350–361.
<https://doi.org/10.1080/10376178.2018.1505436>

Hung, L., Phinney, A., **Chaudhury, H.**, & Rodney, P. (2018). Using video-reflexive ethnography to engage hospital staff to improve dementia care. *Global Qualitative Nursing Research*, 5. doi:10.1177/2333393618785095

Hung, L., Phinney, A., **Chaudhury, H.**, Rodney, P., Tabamo, J., & Bohl, D. (2018). Appreciative inquiry: Bridging research and practice in a hospital setting. *International Journal of Qualitative Methods*, 17(1), 1–10. doi:10.1177/1609406918769444

Iuglio, S., Keller, K., **Chaudhury, H.**, Slaughter, S., Lengyel, C., Morrison, J., ... Carrier, N. (2018). Construct validity of the dining environment audit protocol: A secondary data analysis of the Making Most of Mealtimes (M3) study. *Biomedical Central (BMC) Geriatrics*, 18(1), 20. doi:10.1186/s12877-018-0708-4

Iuglio, S., Keller, K., **Chaudhury, H.**, Slaughter, S., Lengyel, C., Morrison, J., ... Carrier, N. (2018). Construct validity of the mealtime scan: A secondary data analysis of the Making Most of Mealtimes (M3) study. *Journal of Nutrition in Gerontology and Geriatrics*, 37(2), 82–104. doi:[10.1080/21551197.2018.1461166](https://doi.org/10.1080/21551197.2018.1461166)

Scherer, M., **Canham, S. L.**, Furr-Holden, D., & Voas, R. (2018). Intercorrelation of alcohol and other drug use disorders among a national sample of drivers. *Journal of Psychoactive Drugs*, 50(2), 143–150.

Torous, J., Firth, J., Huckvale, K., Larsen, M., **Cosco, T. D.**, Carney, R., ... Christensen H. (2018). The emerging imperative for a consensus approach towards the rating and clinical recommendation of mental health apps. *Journal of Nervous and Mental Disorders*, 206(8), 662–666.

Torous, J., Larsen, M. E., Depp, C., **Cosco, T. D.**, Barnett, I., Nock, M. K., & Firth, J. (2018). Smartphones, sensors, and machine learning to advance real-time prediction and interventions for suicide prevention: A review of current progress and next steps. *Current Psychiatry Reports*, 20(7), 1–6.

Wister, A., Lear, S., Schrumann, N., MacKey, D., Mitchell, B. A., **Cosco, T. D.**, & Fyffe, I. (2018). Development and validation of a multi-domain multimorbidity resilience index for an older population: Results from the baseline Canadian Longitudinal Study on Aging. *BMC Geriatrics*, 18(1), 1–13. doi:10.1186/s12877-018-0851-y

2017:

Beringer, R., **Gutman, G.**, & de Vries, B. (2017). Developing a web-based platform to foster end-of-life planning among LGBT older adults. *Gerontechnology*, 16(1), 48–55.

Canham, S. L., Battersby, L., Fang, M. L., Sixsmith, J., Woolrych, R., & Sixsmith, A. (2017). From familiar faces to family: Staff and resident relationships in long-term care. *Journal of Aging & Health*, 29(5), 842–857.

Chaudhury, H., Keller, H., Pfisterer, K., & Hung, L. (2017). Development of a physical environmental observational tool for dining environments in long-term care settings. *The Gerontologist*, 57(6), e95-e101.
<https://doi.org/10.1093/geront/gnw261>

Firth, J., Torous, J., Carney, R., Newby, J., **Cosco, T. D.**, Christensen H., & Sarris, J. (2018). Digital technologies in the treatment of anxiety: Recent innovations and future directions. *Current Psychiatry Reports*, 20(6), 1–8.

Fleming, J., Calloway, R., Perrels, A., Farquhar, M., Barclay, S., Brayne, C., ... **Cosco, T. D.** (2017). Dying comfortably in very old age with or without dementia in different care settings — A representative “older old” population study. *BMC Geriatrics*, 17(1), 222.

Hung, L., Phinney, A., **Chaudhury, H.** Rodney, P., Tabamo, J., & Doris Bohl, D. (2017). “Little things matter!” Exploring the perspectives of patients with dementia about the hospital environment. *International Journal of Older People Nursing*. 12(3). doi:10.1111/opn.12153

Keller, H., Carrier, N., Slaughter, S., Lengyel, C., Steele, C., Duizer, L., ... **Chaudhury, H.** (2017). Making the Most of Mealtimes (M3): Protocol of a multi-centre cross-sectional study of food intake and its determinants in older adults living in long term care homes. *BMC Geriatrics*, 17(1). 15. doi:10.1186/s12877-016-0401-4

Lee, S., Chaudhury, H.

Wister, A., Canham, S. L., & Walker, B. (2017). Gaps in facility care for East Asian cultural groups in selected GVRD communities: A geographic information systems and focus group report. Vancouver, BC: Gerontology Research Centre.

Wister, A., Beaulieu M., Butti, O., Napa Duffy, L., Emmerton, W. J., Evanchuk, J. T., ... Spadafora, P. (2017). National Seniors Council report: Who's at risk and what can be done about it? A review of literature on the social isolation of different groups of seniors. Ottawa, ON: Minister of Human Resources and Skills Development & Minister of the State (Seniors).

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Invited Plenary Lectures, Keynotes, Distinguished Lectures and Panels:

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Wister, A.: Invited Panelist. (2020, February 20). Resilience and Aging. Dalai Lama Centre, Vancouver, BC.

Wister, A.

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Gutman, G.: Invited Plenary Addresser. (2018 April 30). Boomers, zoomers & super-centenarians: Changing demographics and the need for age

Gutman, G.: Invited Keynote Speaker. (2016, October 11). The age-friendly cities movement: An evolving concept in health promotion for seniors. Open Space: People Space International Conference, Edinburgh, UK.

Wister, A.: Invited Keynote Speaker. (2016, December 5). Inherent tensions between population aging and health care system innovation: What can we expect the future to look like? Conference Board of Canada, Healthy Aging and Seniors: Strengthening Quality of Life, Ottawa, ON.

Wister, A.: Invited Keynote Speaker (2016, September 26). Inherent tensions between population aging and health care system reform: The future is fuzzy. Council of Seniors Citizen's Organizations of BC, Richmond, BC.

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Conventions Organized and Chaired:

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Wister, A.: Co-Organizer/Conference Manager (Co-Organizer: **Gutman, G.**). (2019, June 10–11). Understanding and fostering resilience in older adults. 28th John K. Friesen Conference, Vancouver, BC.

Wister, A.: Co-Chair/Co-Organizer (Co-Organizer & Co-Chair: **Gutman, G.**). (2018, October 18–20). Making it matter: Mobilizing aging research, practice and policy. 47th Annual Scientific and Educational Meetings of the Canadian Association on Gerontology, Vancouver, BC.

Wister, A.: Chair/Co-Organizer (Co-Organizer: **Gutman, G.**). (2018, May 16–17). Social isolation to inclusion. 27th John K. Friesen Conference, Vancouver, BC.

Gutman, G.: Organizer/Conference Manager. (2018, May–11). International Society for Gerontechnology 11th World Conference, St. Petersburg, FL.

Gutman, G.: Organizer/Conference Manager. (2017, May 18–19). Promoting mental health in later life: Mobilizing knowledge into practice. Joint 26th John K. Friesen Conference and 20th BC Psychogeriatric Association Conference, Vancouver, BC.

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Symposia Organized

Chaudhury, H.: Co-Organizer (Co-Organizer: Bigonnesse, C.). (2018, November). Mobility and aging in place experience in urban settings among older adults living on cohousing and NORC. Paper presented at the 69th Annual Scientific Meeting of the Gerontological Society of America, Boston, MA.

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Selected Media Activities (TV, Radio, and Newspaper)

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Chaudhury, H. (2016, January 14). De Hogeweyk: An innovative dementia village in the Netherlands. Interview by G. Ruiz. The Journal [Magazine article]. Washington, DC: AARP International.

Canham, S. L. (2019, April 10). The aging face of homelessness in North American cities. The National Post [Newspaper Article]. Vancouver, BC: Postmedia Group.

Canham, S. L. (2018, October 22). Access to affordable housing for seniors. Interview by C. Ruiz y Laza. CARPe diem [Television broadcast]. Vancouver, BC: JoyTV.

Cosco, T. D. (2020, March 31). How to nurture your resilience. Good Times [Magazine Article]. Toronto, ON: Bayard.

Gutman, G. (2019, January 16). Experts say better environmental design, staff training needed in wake of Okanagan care home deaths linked to aggression. Interview by S. Thom. Global Okanagan TV News at 6 [Television broadcast]. Kelowna, BC: Global Television Network.

Gutman, G. (2020, June 5). Senior abuse and the pandemic.

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Wister, A. (2020, March 20). COVID-19: So can I date? What's the best way to socially distance ourselves? The Province [Newspaper Article]. Vancouver, BC: Postmedia Group.

Wister, A. (2019, February 27). Only the lonely. University Affairs [Magazine Article]. Ottawa, ON: Universities Canada.

Wister, A. (2018, September 13). Loneliness and social isolation affecting lives. Interview by M. Elliot. Michelle Elliot Show [Radio broadcast]. Vancouver, BC: CBC Radio.

Wister, A. (2018, January 18). U.K. loneliness minister appointment highlights need for Canadian action: experts. Interview by L. Givetash. The Globe and Mail [Newspaper Article]. Toronto, ON: The Canadian Press.

Wister, A. (2017, May 27). Ethnic-specific long-term care. Interview by M. Janakiram. Manusha Janakiram Show [Radio broadcast]. Vancouver, BC: CBC Radio.