

## SUZANNE MAVOA - CURRICULUM VITAE

### EDUCATION AND QUALIFICATIONS

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- 2016 - PhD in Health, Massey University  
Thesis: Delineating neighbourhood and exposure in built environment and physical activity research
- 1998 - MSc (Distinction) in Geography, University of Auckland  
Thesis: Video investigation of the longshore current at Muriwai Beach
- 1995 - BCom (Honours) in Information Systems, University of Auckland  
Thesis: Visualisation in spatial decision support systems
- 1994 - BSc in Geography, University of Auckland

### EMPLOYMENT HISTORY

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- 2017 – present    **Senior Research Fellow**  
*Non-Communicable Disease Unit, Melbourne School of Population & Global Health, University of Melbourne*
- 2016                **Senior Research Fellow** (0.9 FTE - Level C1)  
*McCaughey VicHealth Community Wellbeing Unit, University of Melbourne*
- 2012 – 2016       **Senior GIS Analyst** (0.9 FTE)  
*McCaughey VicHealth Community Wellbeing Unit, University of Melbourne*
- 2016                **Senior Research Officer** (0.1 FTE)  
*SHORE & Whariki Research Centre, Massey University, Auckland*
- 2006 – 2015       **GIS Analyst/Researcher**  
*SHORE & Whariki Research Centre, Massey University, Auckland*
- 2002 – 2006       **GIS Analyst**  
*Maunsell Limited (engineering consultancy), Auckland*
- 1999 – 2002       **Senior GIS tutor**  
*Department of Geography, University of Auckland*
- 1999 – 2002       **Senior Information Systems tutor**  
*Department of MSIS, University of Auckland*
- 1997 – 1998       **Information Systems tutor**  
*Department of MSIS, University of Auckland*
- 1995 – 1998       **GIS tutor**  
*Department of Geography, University of Auckland*
- 1995 – 1997       **Computer Science tutor**  
*Department of Computer Science, University of Auckland*

### PRIZES AND AWARDS

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- 2015    Ray James Memorial Award for excellence and innovation in health promotion research published in the Health Promotion Journal of Australia (for a co-authored publication).
- 2014    Planning Excellence Award for Environmental Planning Book (for a co-authored chapter).
- 2013    Claude McCarthy Travel Fellowship (~\$4k).
- 2012    Centre for Applied Spatial Analysis (CASA) award for the best spatial analysis paper at the GIS Research UK Conference.
- 2011    New Zealand National Heart Foundation Travel Grant (\$4k).
- 1996    University of Auckland Maori/Pacific Island Graduate Scholarship.
- 1995    Inland Revenue Department Scholarship in Information Technology.
- 1994    University of Auckland Senior Prize in Geography.

1994 University of Auckland Senior Prize in Management Science and Information Systems.

## RESEARCH GRANTS (Investigator role)

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- Under review **Exposure to natural environments and Vitamin D deficiency**  
Principal investigator  
Requested from University of Melbourne Dyason Fellowship  
(Mavoa, S.)
- Geovisualisation design patterns: Decision-support for the 30-minute city**  
Co-investigator (CIF)  
Requested from ARC (Discovery Project)  
(Duckham, M., Griffin, A., Goodwin, S., Pettit, C., McVernon, J., Mavoa, S.)
- Built environment, physical activity, and nutritional status in adults living in São Paulo city: a longitudinal study**  
International associate researcher  
Requested from FAPESP (São Paulo Research Foundation, Brazil)  
(Florindo, A., Barrozo, L., Sarti, F., Giles-Corti, B., Turrell, G., Mavoa, S., Garcia, L.)
- 2017 **RG1. How does where we live shape our health? Making spatially derived measures of places accessible and understandable for teaching and researching inequalities**  
Co-investigator (CIB)  
Melbourne School of Population and Global Health BIP Reinvestment Fund (\$52,500)  
(Bentley, R., Mavoa, S., Barr, A.)
- 2016 **RG2. Associations between urban nature and cardiovascular disease risk**  
Principal investigator  
NHMRC Early Career Fellowship (\$318,768)  
(Mavoa, S.)
- 2015 **RG3. Enabling participation for children and young people with disabilities**  
Co-Investigator (CID)  
Funded by the NZ Health Research Council (NZ\$1,186,407)  
(Witten, K., Carroll, P., Oliver, M., Mavoa S., Kearns, R., Asiasiga, L., Kayes, N., Lin, E.)
- RG4. Participatory GIS for public engagement in locality-sensitive urban regeneration and intensification**  
Associate investigator  
Funded by the NZ Ministry of Business, Innovation and Employment  
(NZ\$78,832)
- RG5. Development of national indices of neighbourhood destination accessibility**  
Co-investigator (CIB)  
Funded by the Massey University Research Fund (NZ\$17,347)  
(Witten, K., Mavoa, S.)
- RG6. Validating and creating critical national spatial datasets**  
Co-investigator (CIB)

Funded by the McCaughey VicHealth Community Wellbeing Unit (AUD\$10,000)  
(Badland, H.M., **Mavoa, S.**)

2014

**RG7. Neighbourhoods for active kids**

Co-investigator (CIC)

Funded by the NZ Health Research Council (NZ\$1,199,136)

(Oliver, M., Witten, K., **Mavoa S.**, Carroll, P., Kearns, R., Asiasiga, L., Lin, E.)

**RG8. Walkability tool improvement**

Co-investigator and project manager (CIA)

Funded by the Australia Urban Research Infrastructure Network (AUD\$46,978)

(**Mavoa, S.**, Giles-Corti, B.)

2013

**RG9. Restricting the availability of alcohol to reduce alcohol-related harm in New Zealand**

Co-investigator (CIB)

Funder: NZ Health Research Council (NZ\$149,363)

(Huckle, T., **Mavoa, S.**, Yeh, L., Donovan, P., Casswell, S.)

**RG10. Building an evidence base to support planning for socially connected, equitable communities**

Co-investigator (CIG)

Funded by Carlton Connect Initiatives Fund, Melbourne Research (AUD\$18,000)

(McVernon, J., Badland, H., Bekessy, S., Cubis, J., Day, J., Geard, N., **Mavoa, S.**, McCaw, J, Mouat, C, Praver, S, Robins, G., Sturup, S., Tomko, M, Warr, D, Winter, S.)

2012

**RG11. Built Environment and Physical Activity in New Zealand Youth**

Co-investigator (CIE)

Funded by the NZ Health Research Council (NZ\$1,198,920)

(Schofield, G.M., Hinckson, E.A., Oliver, M., Duncan, J.S., **Mavoa, S.**, Badland, H.M., Ivory, V., Cerin, E.)

**RG12. Characterising neighbourhood environments using SenseCam images**

Principal investigator (CIA)

Funded by the Massey University Research Fund (NZ\$5,880)

(**Mavoa, S.**)

2010

**RG13. Multi storey living with kids in mind**

Co-investigator (CIF)

Funded by the NZ Marsden Fund (NZ\$700,000)

(Witten, K., Kearns, R., Moewaka Barnes, H., Asiasiga, L., Lin, E., **Mavoa, S.**)

**RG14. Children's mobility and physical activity in higher density urban neighbourhoods**

Co-investigator (CIE)

Funded by the NZ Health Research Council (NZ\$1,185,406)

(Witten, K., Kearns, R.A., Oliver, M., Moewaka Barnes, H., **Mavoa, S.**, Badland, H.M., Asiasiga, L., Lin, E., Sweetsur, P.)

2009

**RG15. Community level harm from gambling**

Co-investigator (CIE)

Funded by the NZ Ministry of Health (NZ\$450,000)  
(Casswell, S., Moewaka Barnes, H., Witten, K., Wall, M., **Mavoa, S.**, Adams, J., Lin, E., Asiasiga, L., Huckle, T., You, R.).

2007      **RG16. Understanding the relationship Activity and Neighbourhoods (URBAN)**  
Co-investigator (CIG)  
Funded by the NZ Health Research Council (NZ\$1,128,187)  
(Schofield, G.M., Witten, K., Schluter, P.J., Kearns, R.A., Badland, H.M., Hinckson, E.A., **Mavoa, S.**, Moewaka Barnes, H., Kaiwai, H.)

#### **RESEARCH PROJECTS (GIS manager, research fellow, or analyst role)**

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2016      **RP1. The Australian National Liveability Study part II**  
Research Fellow. Contributed to the grant application.

2015      **RP2. Understanding how local and regional accessibility are associated with active travel, and related health and economic impacts (ARC Linkage)**  
GIS Lead. Contributed to the grant application.

2014 - 2016      **RP3. NHMRC Centre of Research Excellence in Healthy, Liveable Communities**  
Associate investigator and GIS consultant.

2012 - 2016      **RP4. Community Indicators Victoria**  
Senior GIS Analyst/Manager.

2014 - 2016      **RP5. The Australian Partnership Prevention Centre - Reconnecting urban planning with health: The development and validation of national liveability indicators associated with chronic disease risk factors and health outcomes (NHMRC)**  
Technical Lead. Contributed to the grant application.

#### **RESEARCH CONSULTANCIES**

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2017      **RC1. GPS activity spaces (\$18k)**  
Developing methods to operationalise spatio-temporal activity spaces (contract to ACU).

**RC2. UNICEF Health Systems Strengthening**  
Contributing training on GIS and spatial data to the UNICEF Health Systems Strengthening training program run by the Nossal Institute of Global Health.

2016      **RC3. Geocoding Ten to Men participant addresses**  
Leading and project managing a consultancy to geocode participant addresses for Ten to Men - an Australia-wide study of the health and lifestyles of a large group of Australian males.

2015-2016      **RC4. NEArbY (NEighbourhood Activity in Youth study)**  
Leading and project managing a sub contract (to Deakin University) to conduct GIS analyses for the NEArbY study – a study of neighbourhood environment and physical activity in Victorian youth.

2014      **RC5. Creating healthier communities**

Led and project managed a research project for Geelong Local Government Area. This included a rapid review of GIS measures associated with health and the development of GIS –based measures of the built environment for Geelong.

- 2012 – 2014     **RC6. Linking geospatial measures to AusDiab**  
Led the McCaughey VicHealth team in a consultancy to geocode participant addresses and create measures of the urban environment in the national AusDiab survey.
- 2010             **RC7. Housing New Zealand walkability and accessibility analyses**  
Calculated walkability and accessibility measures for Housing New Zealand. Trained a Housing New Zealand analyst to calculate the measures.
- 2007-2008      **RC8. Moving through the built environment: where, how, and why**  
Consulting GIS analyst for a study combining GPS, GIS and accelerometry to assess transport-related physical activity (Auckland University of Technology).

## RESEARCH COLLABORATIONS

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- 2017 – present   **Healthy urban microbiome initiative (geospatial analysis, human and environmental microbiome)**  
*University of Adelaide; University of Auckland, NZ; Public Health Foundation India; University of Southampton, UK; Public Health Dorset, UK; Institute of Communicable Disease Control, China*
- 2017 – present   **Neighbourhoods to nucleotides (geospatial analysis, human microbiome, epigenetics)**  
*University of California, San Diego*
- 2015 – present   **Improving measures of the environment in health geography research**  
*University of Melbourne; Institute for Physical Activity and Nutrition, Deakin University; Spatial Epidemiology & Evaluation Research Group, University of South Australia*
- 2015 – 2016      **Participatory planning for urban transitions**  
*Aalto University, Finland; Massey University, NZ; Canterbury University, NZ; Waikato University, NZ; Otago University, NZ; Victoria University, NZ*
- 2014 – present   **Transport and health**  
*University of Melbourne, RMIT, Deakin University, VicHealth, VicRoads, Department of Economic Development, Jobs, Transport, and Resources*
- 2014 – 2016      **Space syntax, urban design, and health**  
*University of Melbourne, Baker IDI, Australian Catholic University, Swinburne*
- 2010 – present   **Kids in the city**  
*Massey University; University of Auckland; Auckland University of Technology*
- 2007 – present   **International physical activity and environment network**  
*Led by University of California, San Diego; 20 country collaboration*

## PUBLICATIONS

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\*indicates refereed publication

### Under review

Ikeda – caterpillar buffers

Thompson – cycling SABM validation

Lamb – POS

## Ergli – Fast food

### Peer-reviewed book chapters

\*B1. Gunn, L., Greenham, B., Davern, M., **Mavoa, S.**, Taylor, E.J., Bannister, M. (2017) Environmental Justice in Australia: Measuring the relationship between industrial odour exposure and community disadvantage. In *Community Quality-Of-Life Indicators: Best Cases VIII*. Eds Holden M., Phillips R, Stevens C. Springer: International.

\*B2. Chaudhury, M., Oliver, M., Badland, H.M., **Mavoa, S.** (2016) Children's independent mobility and the importance of public open spaces. In *Geographies of children and young people: Play, recreation, health and well being*. Eds Skelton T, Horton J, Evans B. Springer: Berlin.

\*B3. Oliver, M., Schoeppe, S., **Mavoa, S.**, Duncan, S., Kelly, P., Donovan, P., Kyttä, M. (2016) Children's geographies for activity and play: An overview of measurement approaches. In *Geographies of children and young people: Play, recreation, health and well being*. Eds Skelton T, Horton J, Evans B. Springer: Berlin.

\*B4. Giles-Corti B, Badland H, Foster S, **Mavoa S**, Whitzman C, Turrell G (2014) Healthy cities in Byrne J, Sipe N, Dodson J. *Environmental Planning: Current problems and future prospects*. Routledge.

### Peer reviewed journal articles

#### Accepted

**Mavoa, S.**, Eagleson, S., Badland, H.M., Gunn, L. Boulange, C., Stewart, J., Giles-Corti, B. (accepted 19 May 2018). Identifying appropriate land use mix measures for use in a national walkability index. *Journal of Transport and Land Use*.

#### In press

Egli, V., Zinn, C., Mackay, L., Donnellan, N., Villanueva, K., **Mavoa, S.**, Exeter, D., Vandevijvere, S., Smith, M. (accepted 18 May 2018). The effect of street-level greenery on walking behavior: Evidence from Hong Kong. *Geographical Research*.

Davern, M.D., Gunn, L., Whitzman, C., Higgs, C., Giles-Corti, B., Simons, K., Villanueva, K., **Mavoa, S.**, Roberts, R., Badland, H.M. (accepted 19 Feb 2018). Using spatial measures to test a conceptual model of social infrastructure that supports health and wellbeing. *Cities & Health*

#### Published

Madill, R., Badland, H., **Mavoa, S.** and Giles-Corti, B., 2018. Comparing private and public transport access to diabetic health services across inner, middle, and outer suburbs of Melbourne, Australia. *BMC health services research*, 18(1), p.286.

Koohsari, J., Badland, H., **Mavoa, S.**, Villanueva, K., Francis, J., Hooper, P., Giles-Corti, B. (2018). Are public open space attributes associated with walking and depression? *Cities*, 74, 119-125.

Feng, X., Astell-Burt, T., Badland, H.M., **Mavoa, S.**, Giles-Corti, B. (2018). Modest ratios of fast food outlets to supermarkets and green grocers are associated with higher body mass index: Longitudinal analysis of a sample of 15,229 Australians aged 45 years and older in the Australian National Liveability Study. *Health & Place*, 49, 101-110.

Rachele, J.N., Learnihan, V., Badland, H.M., **Mavoa, S.**, Turrell, G. and Giles-Corti, B., (2018). Are measures derived from land use and transport policies associated with walking for transport? *Journal of physical activity and health*, 1-22.

Gunn, L.D., **Mavoa, S.**, Boulange, C., Hooper, P., Kavanagh, A., Giles-Corti, B. (2017). Designing healthy communities: creating evidence on metrics for built environment features associated with walkable neighbourhood activity centres. *International Journal of Behavioral Nutrition and Physical Activity*, 14(1), 164.

Gunn, L.D., King, T.L., **Mavoa, S.**, Lamb, K.E., Giles-Corti, B., Kavanagh, A. (2017). Identifying destination distances that support walking trips in local neighborhoods. *Journal of Transport & Health*, 5, 133-141.

Rachele, J., Learnihan, V., Badland, H., **Mavoa, S.**, Turrell, G., Giles-Corti. (2017). Neighbourhood socioeconomic and transport disadvantage: The potential to reduce social inequities in health through transport. *Journal of Transport & Health*, 7, 256-263.

Boulange, C., Gunn, L., Giles-Corti, B., **Mavoa, S.**, Pettit, C. and Badland, H., (2017). Examining associations between urban design attributes and transport mode choice for walking, cycling, public transport and private motor vehicle trips. *Journal of Transport & Health*, 6, 155-166.

Badland, H., **Mavoa, S.**, Boulange, C., Eagleson, S., Gunn, L., Stewart, J., David, S., Giles-Corti, B. (2017) Identifying, creating, and testing urban planning measures for transport walking: Findings from the Australian national liveability study. *Journal of Transport & Health*. 5, 151-162.

Hinckson, E., Cerin, E., **Mavoa, S.**, Smith, M., Badland, H., Stewart, T., Duncan, S., Schofield, G. (2017). Associations of the perceived and objective neighborhood environment with physical activity and sedentary time in New Zealand adolescents. *International Journal of Behavioral Nutrition and Physical Activity*, 14(1), 145.

Frank, L. D., Fox, E. H., Ulmer, J. M., Chapman, J. E., Kershaw, S. E., Sallis, J. F., Conway, T.L., Cerin, E., Cain, K.L., Adams, M.A., Smith, G. R., Hinckson, E., **Mavoa, S.**, Christiansen, L.B., Hino, A.A.F., Lopes, A. A.S, Schipperijn, J. (2017). International comparison of observation-specific spatial buffers: maximizing the ability to estimate physical activity. *International Journal of Health Geographics*, 16(1), 4.

Koohsari, M. J., Owen, N., Cole, R., **Mavoa, S.**, Oka, K., Hanibuchi, T., & Sugiyama, T. (2017). Built environmental factors and adults' travel behaviors: role of street layout and local destinations. *Preventive Medicine*.

Murphy, M., Badland, H., Koohsari, M. J., Astell-Burt, T., Trapp, G., Villanueva, K., **Mavoa, S.**, Davern, M., Giles-Corti, B. (2017). Indicators of a health-promoting local food environment: a conceptual framework to inform urban planning policy and practice. *Health Promotion Journal of Australia*.

Oliver, M., McPhee, J., Carroll, P., Ikeda E., **Mavoa, S.**, Mackay, L., Kearns, R., Kytta, M., Asiasiga, L. Garrett, N., Lin, Mackett, R., Zinn, C., Moewaka Barnes, H., Egli, V., White, K., Witten, K. (2016) Neighbourhoods for Active Kids: Study protocol for a cross-sectional examination of neighbourhood features and children's physical activity, active travel, independent mobility, and body size. *BMJ Open*. 6.

Gunn, L., King, T., Mavoa, S., Lamb, K.E., Kavanagh, A., Giles-Corti, B. (2016) Identifying destination distances that support walking trips in local neighborhoods. *Journal of Transport and Health*.

McGrath, L., Hinckson, E.A., Hopkins, W.G., **Mavoa, S.**, Witten, K., Schofield, G. (2016). Associations between the neighbourhood environment and moderate-to-vigorous walking in New Zealand Children: Findings from the URBAN study. *Sports Medicine*, 46(7), 1003-1017.

Badland, H., **Mavoa, S.**, Livingston, M., David, S., Giles-Corti, B. (2016) Testing spatial measures of alcohol outlet density with self-rated health in the Australian context: Implications for policy and practice *Drug Alcohol Rev.* 35, 298-306.

\*J18. Duncan, S., White, K., **Mavoa, S.**, Stewart, T., Hinckson, E., Schofield, G. (2016) Active Transport, Physical Activity, and Distance Between Home and School in Children and Adolescents *J Phys Act Health*. 13(4).

\*J19. Badland, H.; Davern, Melanie T.; Villanueva, K.; Milner, A.; **Mavoa, S.**; Roberts, R.; Giles-Corti, B. (2016) Conceptualising and measuring spatial indicators of employment through a liveability lens. *Social Indicators Research* . 127(2),565-576

\*J20. Oliver, M.; Parker, K.; Witten, K.; **Mavoa, S.**; Badland, H. M.; Donovan, P.; Chaudhury, M.; Kearns, R. (2016) Children's Out-of-School Independently Mobile Trips, Active Travel, and Physical Activity: A Cross-sectional Examination From the Kids in the City Study. *J Phys Act Health*. 13(3).

\*J21. Badland H, Kearns R, Carroll P, Oliver M, **Mavoa S**, Donovan P, Parker K, Chaudhury M, Lin J, Witten K. (2016). Development of a systems model to visualise the complexity of children's independent mobility. *Children's Geographies*. 14(1), 91-100.

\*J22. Koohsari, MJ, Sugiyama, T, **Mavoa, S**, Villanueva, Karen; Badland, H, Giles-Corti, B, Owen, N. (2016) Street network measures and adults' walking for transport: Application of space syntax. *Health & Place*, 38, 89-95.

\*J23. Koohsari, M.J., Sugiyama, T., Sahlqvist, S., **Mavoa, S.**, Hadgraft, N., Owen, N. (2015) Neighborhood Environmental Attributes and Adults' Sedentary Behaviors: Review and Research Agenda. *Preventive Medicine*. 77, 141-149.

\*J24. Oliver, M., Witten, K.; Blakely, T., Parker, K., Badland, H., Schofield, G., Ivory, V., Pearce, J., **Mavoa, S.**, Hinckson, E., Sweetsur, P., Kearns, R. (2015) Neighbourhood built environment associations with body size in adults: mediating effects of activity and sedentariness in a cross-sectional study of New Zealand adults. *BMC Public Health*, 15(1).

\*J25. Badland, H.M., Donovan, P., **Mavoa, S.**, Oliver, M., Chaudhury, M., Witten, K. (2015). Assessing neighbourhood destination access for children: Development of the NDAI-C audit tool. *Environment and Planning B: Planning and Design*. 42, 1148-1160.

\*J26. **Mavoa, S.**, Koohsari, M.J., Badland, H.M., Davern, M., Feng, X., Astell-Burt, T., Giles-Corti, B. (2015). Area-level disparities of public open space: a Geographic Information Systems analysis in metropolitan Melbourne. *Urban Policy and Research*. 33(3), 306-323.

\*J27. Oliver, M., **Mavoa, S.**, Badland, H., Parker, K., Donovan, P., Kearns, R. A., Lin, E. Y., Witten, K. Associations between the neighbourhood built environment and out of school physical activity and active travel: An examination from the Kids in the City study. *Health & Place* 36, 57-64.

- \*J28. Lowen, T., Davern, M., **Mavoa, S.**, Brasher, K. (2015). Age friendly cities and communities: Access to Services for Older People. *Australian Planner*. 52(4), 255-265.
- \*J29. Koohsari, M.J., **Mavoa, S.**, Villanueva, K., Sugiyama, T., Badland, H.M., Kaczynski, A.T., Owen, N., Giles-Corti, B. (2015) Public open space, physical activity, urban design and public health: Concepts, methods and research agenda. *Health & Place*, 33, 75-82.
- \*J30. Villanueva, K., Badland, H., Hooper, P., Koohsari, M., **Mavoa, S.**, Davern, M., Roberts, R., Goldfeld, S., Giles-Corti, B. (2015) Developing indicators of Public Open Space to promote health and wellbeing in communities. *Applied Geography*. 57, 112-119.
- \*J31. Giles-Corti B, Macaulay G, Middleton N, Boruff B, Bull F, Butterworth I, Badland H, **Mavoa S**, Roberts R, Christian H. (2015) Developing a research and practice tool to measure walkability: A demonstration project, *Health Promotion Journal of Australia*, 25(3), 160-166.
- \*J32. Koohsari, M.J., Badland, H.M., Sugiyama, T. **Mavoa, S.**, Christian, H., Giles-Corti, B. (2015). Mismatch between perceived and objectively measured land use mix and street connectivity: Associations with neighbourhood walking. *Journal of Urban Health*, 92, (2), 242-252.
- \*J33. Badland, H., **Mavoa, S.**, Villanueva, K., Roberts, R., Davern, M., Giles-Corti, B. (2014). The development of policy-relevant transport indicators to monitor health outcomes and behaviours. *Journal of Transport & Health*. 2(2), 103-110.
- \*J34. Koohsari, M. J., Sugiyama, T., Sahlqvist, S., **Mavoa, S.**, Hadgraft, N., Owen, N. Neighborhood environmental attributes and adults' sedentary behaviors: Review and research agenda. (2015) *Prev Med*, 77 141-9.
- \*J35. Giles-Corti B, Badland H, **Mavoa S**, Turrell G, Bull F, Boruff B, Pettit C, Redman S, Bauman A, Hooper P, Villanueva K, Astell-Burt, Feng X, Learnihan V, Davey R, Grenfell R, Thackway S. (2014) Reconnecting urban planning with health: A protocol for the development and validation of national liveability indicators associated with non-communicable disease risk behaviours and health outcomes. *Public Health Research and Practice*, 25(1), e2511405.
- \*J36. Adams, M.A., Frank, L.D., Schipperijn, J., Smith, G., Chapman, J., Christiansen, L.B., Coffee, N.T., Salvo, D., du Toit, L., Dygrýn, J., Ferreira Hino, A.A., Lai, P., **Mavoa, S.**, Pinzón, J.D., Van de Weghe, N., Cerin, E., Davey, R., Macfarlane, D., Owen, N., Sallis, J.F. (2014) International variation in neighborhood walkability, transit, and recreation environments using Geographic Information Systems: The IPEN Adult study. *International Journal of Health Geographics*, 13(1), 43.
- \*J37. Hinckson, E.A., McGrath, L., Hopkins, W., Oliver, M., Badland, H.M., **Mavoa, S.**, Witten, K., Kearns, R. (2014). Distance to school is associated with sedentary time in children: Findings from the URBAN study. *Frontiers in Public Health* 2, 151.
- \*J38. Oliver, M., Badland, H., **Mavoa, S.**, Witten, K., Kearns, R., Ellaway, A., Hinckson, E.A., Mackay, L., Schluter, P. J. (2014). Environmental and socio-demographic associates of children's active transport to school: a cross-sectional investigation from the URBAN Study. *International Journal of Behavioral Nutrition and Physical Activity*, 11(1), 70.
- \*J39. Hinckson, E.A., Duncan, S.J., Oliver, M., **Mavoa, S.**, Cerin, E., Badland, H.M., Stewart, T., Ivory, V., McPhee, J., Schofield, G. (2014) Built environment and physical activity in New Zealand adolescents: A protocol for a cross-sectional study. *BMJ Open*, 4(4), e004475.

- \*J40. Astell-Burt T, Feng X, **Mavoa S**, Badland HM, Giles-Corti B (2014) Do low-income neighbourhoods have the least green space? A cross-sectional study of Australia's most populous cities. *BMC Public Health*, 14(1), 292.
- \*J41. Oliver M, **Mavoa S**, Badland HM, Carroll P, Asiasiga L, Tavae N, Kearns RK, Witten K (2014) What constitutes a trip? Examining child journey attributes using GPS and self-report. *Children's Geographies*, 1- 8.
- \*J42. Sugiyama, T., Koohsari, M. J., **Mavoa, S** & Owen, N. (2014). Activity-Friendly Built Environment Attributes and Adult Adiposity. *Current Obesity Reports*, 1-16.
- \*J43. Badland HM, White M, MacAulay G, Eagleson S, **Mavoa S**, Pettit C, Giles-Corti B (2013). Using simple agent-based modeling to inform and enhance neighborhood walkability. *International Journal of Health Geographics*, 12: 58.
- \*J44. Oliver, M., Doherty, A. R., Kelly, P., Badland, H. M., **Mavoa, S.**, Shepherd, J., Kerr, J., Marshall, S., Hamilton, A., Foster, C. (2013). Utility of passive photography to objectively audit built environment features of active transport journeys: an observational study. *International Journal of Health Geographics*, 12(1), 1-7.
- \*J45. Duncan S, Stewart TI, Oliver M, **Mavoa S**, MacRae D, Badland HM, Duncan MJ (2013). Static validity of seven portable global positioning system receivers under different environmental conditions. *American Journal of Preventive Medicine*. 44(2), e19-e29.
- \*J46. Badland H, Oliver M, Kearns RA, **Mavoa S**, Witten K, Duncan MJ, Batty GD (2012). Association of neighbourhood residence and preferences with the built environment, work-related travel behaviours, and health implications for employed adults: Findings from the URBAN study. *Social Science & Medicine*, 75(8), 1469-1476.
- \*J47. Witten K, Blakely T, Bagheri N, Badland H, Ivory V, Pearce J, **Mavoa S**, Hinckson E, Schofield G. (2012). Neighbourhood Built Environment and Transport and Leisure Physical Activity: New Zealand Findings Using Objective Exposure and Outcome Measures. *Environmental Health Perspectives*, 120(7).
- \*J48. **Mavoa S**, Witten K, McCreanor T, O'Sullivan D (2012). GIS based destination accessibility via public transit and walking in Auckland, New Zealand, *Journal of Transport Geography*, 20(1), 15-22.
- \*J49. **Mavoa S**, Oliver M, Witten K, Badland HM (2011). Linking GPS and travel diary data using sequence alignment in a study of children's independent mobility, *International Journal of Health Geographics*, 10:64.
- \*J60. Oliver M, Witten K, Kearns R, **Mavoa S**, Badland HM, Carroll P, Drumheller C, Tavae N, Asiasiga L, Jelley S, Kaiwai H, Opit S, Lin E, Sweetsur P, Moewaka Barnes H, Mason N, Ergler C (2011). Kids in the City Study: Research design and methodology. *BMC Public Health*, 11:587.
- \*J61. Witten K, Huakau J, **Mavoa S** (2011). Social and recreational travel: the destinations, travel modes and CO2 emissions of New Zealand households. *Social Policy Journal of New Zealand*, 37.
- \*J62. Badland HM, Opit S, Witten K, Kearns RA & **Mavoa S** (2011). Can virtual streetscape audits reliably replace physical streetscape audits? *Journal of Urban Health* 87(6), 1007-1016.

- \*J63. Badland HM, Duncan MD, Oliver M, Duncan JS, **Mavoa S** (2010). Examining commute routes: Applications of GIS and GPS technology, *Environmental Health and Preventive Medicine* 15, 327-330.
- \*J64. Oliver M, Badland HM, **Mavoa S**, Duncan MD, Duncan JS (2010). Combining GPS, GIS and accelerometry: Methodological issues in the assessment of location and intensity of travel behaviors. *Journal of Physical Activity and Health* 7(1), 102-108.
- \*J65. Badland HM, Schofield GM, Witten K, Schluter PJ, **Mavoa S**, Kearns RA, Hinckson, EA, Oliver M, Kaiwai H, Jensen VG, Ergler C, McGrath L, McPhee J. (2009) Understanding the Relationship between Activity and Neighbourhoods (URBAN) Study: research design and methodology. *BMC Public Health*, 9:224.

#### **Peer reviewed full conference papers**

- \*CP1. Giles-Corti B, MacAulay G, Middleton N, Boruff B, Whitzman C, Bull F, Butterworth I, Badland HM, **Mavoa S**, Roberts R, Christian H (2013). Development and Trial of an Automated Open Source Walkability Index Tool through the Australian Urban Research Infrastructure Network's Open Source Portal. *State of Australian Cities 2013*, Sydney, Australia.
- \*CP2. **Mavoa S**, Oliver M, Kerr J, Doherty A, Witten K. (2013) Using SenseCam to measure the built environment. *Proceedings of the 4th International SenseCam & Pervasive Imaging Conference*. ACM, 2013.
- \*CP3. **Mavoa S**, Oliver M, Tavae N, Witten K (2012) Using GIS to integrate children's walking interview data and objectively measured physical activity data. *GIS Research UK Conference 2012*, Lancaster, UK. CASA award for best spatial analysis paper.
- \*CP4. **Mavoa S** (2007) Estimating the social impact of reduced CO2 emissions from household travel using GIS modeling. In Morris, Jenny and Rose, Geoff, Eds. *Proceedings 30th Australasian Transport Research Forum (ATRF)*, Melbourne, Australia.
- \*CP5. Osborne PD, **Mavoa S**, and Holman, RA (1999) Video remote sensing of longshore currents in a high energy surf zone. In Stewart, C. Ed. *Proc. Canadian Coastal Conference '99*. Victoria, BC, CCSEA, 225-236.

#### **Conference abstracts (selected) \*indicates invited presentations**

- C1. **Mavoa, S.** (accepted) Geospatial measurement of the outdoor natural environment: preliminary results from a review and future recommendations. *inFLAME Symposium 2018, Canmore, Canada*.
- \*C2. **Mavoa, S.** (2017) Developing and testing national measures of walkability. *Healthy Liveable Communities 2017, Melbourne, Australia*.
- C3. **Mavoa, S., O'Sullivan D., Witten, K.** (2017) Comparing how well residential neighbourhood delineations and enhanced neighbourhood delineations capture where children spend time. *GeoMed 2017, O'Porto, Portugal*.
- C4. **Mavoa, S.** (2017) Measuring urban nature for health research. *Institute of Australian Geographers Conference, Brisbane, Australia*.

- C5. **Mavoa, S.**, Badland, H.M., Eagleson, S.E., Boulange, C., Giles-Corti, B. (2016). Developing a measure of access to destinations for daily and local living. *Institute of Australian Geographers Conference, Adelaide, Australia.*
- C6. **Mavoa, S.**, Badland, H.M., Eagleson, S.E., Giles-Corti, B. (2016). Development of a national walkability index: addressing the challenge of land use data. *15th International Society of Behavioral Nutrition and Physical Activity, Cape Town, South Africa.*
- C7. **Mavoa, S.** (2015). Capturing exposure using activity space: a comparison of methods. *1<sup>st</sup> New Zealand Geospatial Research Conference, Christchurch, New Zealand.*
- C8. Koohsari, M.J., Sugiyama, T., **Mavoa, S.**, Villanueva, K., Badland, H., Giles-Corti, B., & Owen, N., (2015). Street network and transport walking: Applications of space syntax. *14th International Society of Behavioral Nutrition and Physical Activity, Edinburgh, Scotland.*
- C9. Hooper P, Boruff B, **Mavoa S**, Badland H, David S, Rachele JN, Astell-Burt T, Giles-Corti B, Are we creating POSitive Places for active living through urban planning policy? Developing and validating national liveability indicators of public open space in Australia. (2015). *14th International Society of Behavioral Nutrition and Physical Activity, Edinburgh, Scotland.*
- C10. Rachele, J.N., Learnihan, V., David, S., Badland, H., **Mavoa, S.**, Turrell, G., Washington, S., Giles-Corti, B. (2015). Benchmarking policy performance for active living: Developing and validating national transport liveability indicators, *14th International Society of Behavioral Nutrition and Physical Activity, Edinburgh, Scotland.*
- C11. Feng X, Astell-Burt T, David S, **Mavoa S**, Eagleson S, Murphy MF, Badland H, Giles-Corti B. (2015). Beyond 'food deserts'? Measuring local food environments in Australian cities. *14th International Society of Behavioral Nutrition and Physical Activity, Edinburgh, Scotland.*
- C12. **Mavoa, S.**, Davern, M., Browne, G., David, S., Gunn, L., Roberts, R., Giles-Corti, B. (2014). Beyond research: Making data accessible through Community Indicators Victoria. *5th International Congress on Physical Activity and Public Health, Rio de Janeiro, 8-11 April 2014.*
- C13. **Mavoa, S.**, O'Sullivan, D., Bagheri, N., Koohsari, M.J., Kaczynski, A.T., Lamb, K.E., Witten, K. (2014). Exploring the consequences of different neighbourhood definitions for built environment and physical activity research. *5th International Congress on Physical Activity and Public Health, Rio de Janeiro, 8-11 April 2014.*
- C14. **Mavoa, S.**, Oliver, M., Carroll, P., Asiasiga, L., Fa'avale, N., Witten, K. (2014). Integrating children's walking interviews and objectively measured physical activity data using GIS. *5th International Congress on Physical Activity and Public Health, Rio de Janeiro, 8-11 April 2014.*
- C15. Badland H, White M, Macaulay G, Eagleson S, **Mavoa S**, Pettit C, Giles-Corti B (2013) Using agent-based modelling to inform neighbourhood walkability. *ISBNPA Annual Meeting 2013. Ghent 22 – 25 May.*
- C16. **Mavoa S**, Bagheri N, Witten K, O'Sullivan D (2012) Does the relationship between dwelling density and physical activity change with different neighbourhood boundaries? *4<sup>th</sup> International Congress on Physical Activity and Public Health, Sydney 31 Oct – 3 Nov.*

C17. Mackay L, Oliver M, Badland H, **Mavoa S**, Witten K, Hinckson E, Kearns R (2012) Parents' neighbourhood self-selection and children's active transport to school. *4<sup>th</sup> International Congress on Physical Activity and Public Health*, Sydney 31 Oct – 3 Nov.

C18. Badland H, Oliver M, Kearns R, **Mavoa S**, Witten K, Duncan M (2012) Work-related travel behaviours: What roles do neighbourhood type and preference play? *4<sup>th</sup> International Congress on Physical Activity and Public Health*, Sydney 31 Oct – 3 Nov.

C19. **Mavoa S** (2011) Neighbourhood differences in public transport and walking access in Auckland. *Mobilities and Neighbourhoods: 2nd Mobilities Symposium*, Palmerston North 15-16 July.

C20. **Mavoa S**, Oliver M (2011) Exploring GIS methods to analyse and visualise GPS and accelerometer data. *Beyond 2011: New Paradigms to Improve Physical Activity and Nutrition*: Queenstown 21-23 June.

C21. **Mavoa S**, Oliver M (2011) Exploring quantitative and qualitative methods in the analysis of children's independent mobility, physical activity and neighborhood environments. *American Association of Geographers Annual Meeting*, Seattle, 12-16 April.

C22. **Mavoa S**, Witten K (2010) Does public transport accessibility predict mode use in the trip to work in Auckland? *NZ Geographical Society Conference*, Christchurch 5-8 July.

C23. **Mavoa S** (2008) Modeling change in accessibility as a measure of the social impact of reduced CO2 emissions from household travel, National Cartographic Conference (Geocart 2008) and 20th Annual Colloquium of the Spatial Information Research Centre (SIRC), University of Auckland, September.

C24. **Mavoa S**, Witten K (2008) Neighbourhood walkability: developing tools to measure infrastructural and experiential factors associated with walking for transport and walking for leisure, New Zealand Walking Conference, Auckland 4-5 August.

C25. **Mavoa S** (2008) Investigating the relationship between the built environment, transport and health, Sustainable Cities Session, New Zealand Geographical Society Conference, Victoria University, Wellington, 2-5 July.

C26. **Mavoa S**, (2007) Spatio-temporal modeling of accessibility under different transport scenarios. Poster presented at the 8th International Conference on Spatial Information Theory, COSIT 2007, Melbourne, Australia, 19-23 September.

### Peer-reviewed technical reports

\*R1. Wall M, Peter M, You S, **Mavoa S**, Witten K (2010) Problem Gambling Research: A study of community level harm from gambling. Phase one final report, SHORE & Whariki, Massey University, Auckland.

### Technical reports

TR1. Giles-Corti, B., **Mavoa, S.**, Eagleson, S.E., Davern, M.D., Roberts, R., Badland, H.M. (2014). *How Walkable is Melbourne? The Development of a Transport Walkability Index For Metropolitan Melbourne*. McCaughey VicHealth Community Wellbeing Unit, Melbourne: The University of Melbourne.

TR2. **Mavoa S**, Witten K, Pearce J, Day P (2009). *Measuring Neighbourhood Walkability in NZ Cities*. SHORE & Whariki, Massey University, Auckland.

TR3. **Mavoa S** (2008) *Accessibility Model to Measure the Social Impact of Reduced Fuel Consumption Scenarios*, SHORE & Whariki, Massey University, Auckland (Objective 3, milestone 8).

TR4. Rose E, Witten K, Sweetsur P, Huakau J, **Mavoa S**, McCreanor T (2006) *Key social and environmental factors that influence neighbourhood walking and mode choice in the neighbourhood utilitarian trips*, SHORE & Whariki, Massey University, Auckland (Objective 2, milestone 6).

## EXPERT AND ADVISORY ROLES

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- 2016
- A1. **Institute for Health & Ageing Grant Pitch panellist**  
NHMRC & ARC 'Grant Pitch' panellist run by the Institute for Health & Ageing, Australian Catholic University (Sep 2016).
- A2. **Validating a low-cost electricity-free oxygen concentrator to increase access to oxygen therapy in Uganda**  
Advised on mapping and spatial analysis for the successful bid to 'Savings Lives at Birth: A Grand Challenge for Development' (funded by USAID, Norwegian Ministry of Foreign Affairs, Bill & Melinda Gates foundation, Grand Challenges Canada, UKaid, and Korea International Cooperation Agency) . The team from The University of Melbourne was one of 12 selected from more than 650 submissions from 78 countries.

## ENGAGEMENT

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### Presentations/workshops/seminars

- E1. **Mavoa S.**, (2017, 27 October) GIS and GPS technologies to understand mobility and accessibility issues. *Presentation to the 'Data for disability inclusive development – innovative practices and where to next workshop' that was part of the Nossal Annual Global Health Forum.*
- E2. **Mavoa, S.**, (2017, 20 September) GIS and spatial data and disability. *Presentation to the Australia Award Fellows workshop hosted by the Nossal Institute for Global Health (fellows from South-East Asia).*
- E3. **Mavoa, S.**, (2017, 14 September) Application of geospatial methods in built environment and health research. *Seminar presented to the European Research Council funded Healthy Heart Hoods research team in Madrid.*
- E4. **Mavoa, S.**, (2017, 29 August) Application of geospatial methods in built environment and health research. *Seminar presented to the Research in Environment, Active aging, and Community Health research team at the University of California, San Diego.*
- E5. **Mavoa S.**, (2017, 17 March) GIS in health research. *Seminar presented to the Institute of Healthy Ageing, Australian Catholic University.*
- E6. **Mavoa S.**, (2017, 8 February) Built environment and health research. *Seminar presented to the Allergy and Lung Health Unit, Melbourne School of Population and Global Health.*

- E7. **Mavoa S.**, (2016, 1 June) Geospatial technologies in population health research. *Seminar presented to the Melbourne School of Population and Global Health.*
- E8. **Mavoa S.**, (2016, 27 May) Dissemination of the national liveability indicators and a national geospatial platform. *Workshop run with the Australian National Liveability study researchers and advisory group, Melbourne, Australia.*
- E9. Davern, M., **Mavoa, S.**, (2016, 5 April) Understanding and profiling communities using Community Indicators Victoria. *Seminar presented to the Cancer Council, Melbourne, Australia.*
- E10. **Mavoa S.** (2015, 13 May) Mapping and Visualising Liveability. *Centre for Research Excellence in Healthy & Liveable Communities Workshop, Melbourne, Australia.*
- E11. David, S., **Mavoa S.**, Butterworth, I., Gunn, L., Badland, H. (2015, 27 Oct) Community Indicators Victoria Capacity Building Workshop. *Community Indicators Victoria, University of Melbourne.*
- E12. **Mavoa, S.**, (2014, 29 May) GIS based indicators for physical activity. *Strategically Planning for Physically Active Communities, Community Indicators Victoria short course, University of Melbourne.*
- E13. **Mavoa, S.** (2014, 7 January) Place, Health and Liveability research program. *Presentation to the City of Melbourne urban design team.*
- E14. **Mavoa, S.** (2013, 10 December) Innovative technologies and approaches to understand aspects of people in place. *Connected Communities workshop, University of Melbourne.*
- E15. **Mavoa, S.**, David, S., Roberts, R., Davern, M. (2013, 25 June) Introduction to GIS. *Community Indicators Victoria short course, University of Melbourne.*
- E16. **Mavoa S** (2012, 12 November) Innovative GIS methods in Children's Independent Mobility Research. *Roger Mackett workshop on Children's Independent Mobility, Auckland, New Zealand.*
- E17. **Mavoa S** (2012, May) Public Transport and Walking Accessibility Index. *Transport and Health workshop. School of Population Health, University of Melbourne.* Presenter and co-organiser.
- E18. **Mavoa S** (2012, May) Community mapping. *Living Streets Aotearoa, Auckland, New Zealand.* Invited speaker at a Living Streets Aotearoa (NGO) meeting.

### **Other engagement activities**

- E19. **Workshop participant (2015):** Urban regeneration: the role of participatory GIS and geovisualisation Auckland, New Zealand, 11 December 2015. Workshop with researchers & local government.
- E20. **Workshop participant (2015):** Urban regeneration: the role of participatory GIS and geovisualisation Christchurch, New Zealand, 7 December 2015. Workshop with researchers & local government.
- E21. **Advisor (2014-2015):** Advising CSIRO and AURIN on the development of a footpath dataset extracted from imagery (participating in meetings and workshops, researching footpath data).
- E22. **Advisory group member (2013):** Member of the AURIN VicHealth project advisory group.
- E23. **Workshop participant (2013):** Exploring ethical frontiers of visual methodologies (24 Jul, 2013). Contributed a position statement focusing on ethical issues when visualising geospatial data.

- E24. **Website tester (2013)**: Tested the Victorian Commission of Gambling and Liquor Regulation mapping website, which made locations of alcohol licenses available for download (November).
- E25. **Tutor/Mentor (2010-2011)**: I tutored and then mentored an analyst from the New Zealand Department of Housing. The department wanted to replicate research-based measures of the built environment that I had previously developed.
- E26. **Sharing research data with local government (2009)**: Supplying local governments in New Zealand with research best-practice measures of accessibility and walkability, and the methods to enable local governments to replicate the measures.

## DATA ADVOCACY

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I have established ongoing relationships with key data agencies and continually advocate for improved spatial data that accurately, completely and consistently describe the Australian urban environment. I am currently working with Australia Urban Research Infrastructure Network, Australian Bureau of Statistics, Public Sector Mapping Authority, Victorian Planning Authority and research colleagues to develop a nationally consistent greenspace dataset across Australia, without which researchers are limited in their ability to conduct robust greenspace and health research.

- D1. **Australian Urban Research Infrastructure Network (AURIN) (ongoing)**
- D2. **Australian Bureau of Statistics (ABS) (ongoing)**
- D3. **Public Sector Mapping Agency (PSMA) (ongoing)**
- D4. **Submission to the Productivity Commission Inquiry on Data Availability and Use (July 2016)**: I led the Place, Health and Liveability team's submission.

## TRANSLATION INTO POLICY AND PRACTICE

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- T1. **Department of the Prime Minister and Cabinet's National Cities Performance Framework (2017)**: My research has informed the development of Australian National liveability indicators relevant to both planning policy and health and wellbeing. I was technical lead on part one of the Australian National Liveability Study (2014-2016), which developed a suite of policy-relevant national spatial indicators of liveability that are also related to health. In part two of the project the indicators have been calculated for all major cities in Australia, allowing planners, policy makers, and the general public to benchmark and monitor progress towards improving the liveability of Australia cities. Two of these indicators (public transport, access to green space) are included in the Department of the Prime Minister and Cabinet's National Cities Performance Framework (2017).
- T2. **Australian Bureau of Statistics (ABS) links measures of public open space access to the Australian Health Survey (2016)**: Advised the ABS geospatial team on best-practice methods of measuring access to public open space and issues with national public open space data. This enabled them to create policy-relevant measures of public open space access for Australian Health Survey participants and make this information available to users of the Australian Health Survey dataset.

- T3. *My research informed the development of walkability tools in AURIN (Australian Urban Research Infrastructure Network - a super science funded spatial data portal 2012-2015)*:** The tools provide researchers, planners and policy makers with the ability to replicate the evidence-based measures of walkability used in research exploring the relationship between the built environment and health. In 2015, the excellence of the AURIN walkability tool was recognised in an award from the Health Promotion Journal of Australia.
- T4. *Auckland recognised as a Child Friendly City (2014)*:** Results from the Kids in the City study (RG15, RG16) identified aspects of the built environment that supported children's independent mobility. These findings were used in a successful bid to recognise Auckland as a UNICEF & NZ Children's Commission Child-friendly City.
- T5. *Informing Victorian Local Government's Health and Wellbeing Plans (2013)*:** The Health and Wellbeing Act requires Victorian councils to prepare a four-year municipal health and wellbeing plan or include health and wellbeing matters in their council plans. 51 of the 79 Victorian councils used Community Indicators Victoria (CIV) data in their 2013-2017 health and wellbeing plans. CIV was also the 6th most cited evidence source in these plans across all municipalities. I develop GIS-based indicators of community wellbeing available on the CIV website.
- T6. *Informing Housing NZ practice (2011)*:** Housing NZ used my maps of walkability and accessibility to assist in identifying optimal locations for state housing that would provide residents with an environment that supported walking and physical activity behaviours.

## COMMITTEES & PROFESSIONAL MEMBERSHIPS

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2018 – present	MDHS faculty champion for University of Melbourne ICA-OSGeo laboratory
2017 – present	Member of the Centre for Health Equity Research committee
2017 – present	Member of Spatial@Melbourne
2016 – present	Institute of Australian Geographers
2016 – present	Co-secretary of the Health Geography Study Group committee
2015 – present	Member of the Melbourne School of Population and Global Health Research Computing committee
2015 – present	Australian Health Geography Study Group member
2010 – 2016	International Society of Behavioral Nutrition and Physical Activity
2009 – present	Global Positioning Systems Health Research Network (GPS_HRN)

## PEER-REVIEWING

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- I regularly review manuscripts for > 20 journals from public health, planning/urban design, transport, geography, and technology fields. These journals include: *Environment and Planning B*, *International Journal of E-Planning Research*, *Journal of Transport Geography*, *Transport Policy*, *Health & Place*, and *International Journal of Health Geographics*.
- 2017: co-chair (Health) for the 2017 State of Australian Cities conference
- 2016: invited member of the program committee and peer reviewer for the 6<sup>th</sup> International Congress on Physical Activity and Public Health.
- 2014: external assessor for the Australian National Health and Medical Research Council.

## RESEARCH HIGHER DEGREE SUPERVISION

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- 2018 – present Nisaa Rahma Wulan – Topic to be determined  
Master of Public Health Research Project, University of Melbourne  
*Co-supervisor. Primary supervisor: Dr Natalie Carvalho. Co supervisor: Dr Ankur Singh*
- 2017 – present Amanda Alderton – How can qualitative Geographic Information Systems (GIS) software elucidate the parent-perceived barriers and facilitators to young children's use of community parks and green spaces in Australia? A 'grounded visualization'.  
Master of Public Health Research Project, University of Melbourne  
*Primary supervisor. Co supervisors: Dr Karen Villanueva and Dr Claire Boulange*
- 2017 – present Dr Padmaka Silva  
Sri Lanka Post-doctoral Trainee  
*Primary supervisor. Co supervisor: Prof. Brian Oldenburg*
- 2017 – present Dr Athula Liyanapathirana  
Sri Lanka Post-doctoral Trainee  
*Co-supervisor. Primary supervisor: Prof. Brian Oldenburg*
- 2017 Kamyar Hasanzadeh  
Visiting PhD student from Aalto University, Finland  
*Hosted and supervised a 3 month visit. Primary supervisor: Prof. Marketta Kytta*
- 2013 Jenny Luk - Towards a 20-minute city: exploring the relationships between walkability, residential density and basic social infrastructure provision in metropolitan Melbourne  
Master of Urban Planning Research Project, ABP, University of Melbourne  
*Co-supervisor. Primary supervisor: Prof. Carolyn Whitzman.*
- 2012 Tamara Lowen – Age Friendly Cities: Access to Services for Older People  
Master of Urban Planning Research Project, ABP, University of Melbourne  
*Co-supervisor. Primary supervisor: Dr Melanie Davern.*  
Awarded first equal in class. Thesis resulted in a published journal article.

## PHD ADVISORY COMMITTEE MEMBERSHIP

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- 2017 – present Herfina Nababan - Regulation by competition and health-seeking behaviour for women and children health among informal providers in urban Bangladesh  
*Melbourne School of Population and Global Health, University of Melbourne*
- 2017 – present Zahra Aziz - How to improve the prevention and self-management of type 2 diabetes in real-world settings?  
*Melbourne School of Population and Global Health, University of Melbourne*
- 2017 – present Ernest Boakye-Dankwa - Destinations that Matter for Active Travel and Leisure-Time Physical Activity in Older Adults  
*Mary MacKillop Institute for Health Research, Australian Catholic University*

- 2012 – 2017 Rebecca Madill - Exploring the spatial distribution and impact of access to health care services across Melbourne's North and West Metropolitan Region (NWMR), *Melbourne School of Population and Global Health, University of Melbourne*
- 2012 – 2016 Claire Boulange - Modelling the impact of the built environment on transport-related walking: A complex system approach with application to Melbourne's North and West Metropolitan Region  
*Melbourne School of Population and Global Health, University of Melbourne*

## HIGHER DEGREE RESEARCH STUDENT EXAMINATION

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- 2017 **PhD**  
*Canterbury University*
- MPH dissertation**  
*University of Western Australian*

## TEACHING

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- 2018 **Applications of GIS guest lecturer**  
*Geomatics, Faculty of Engineering, University of Melbourne*
- 2017 - present **Master of Environment health stream coordinator**  
*Office for Environmental Programs*
- 2017 - present **Health Geography guest lecturer**  
*Geography, Faculty of Science, University of Melbourne*
- 2017 - present **Epidemiology 3 guest lecturer**  
*Master of Public Health, Faculty of Medicine, Dentistry and Health Sciences, University of Melbourne*
- 2015 - 2016 **Urban Informatics guest lecturer**  
*Master of Urban Planning, Faculty of Architecture, Building and Planning, University of Melbourne*
- 2014 – 2016 **McCaughey GIS workshop series (presenter/organiser)**  
*Place, Health, and Liveability, University of Melbourne*
- 1999 – 2002 **Senior GIS tutor**  
*Department of Geography, University of Auckland*
- 1999 – 2002 **Senior Information Systems tutor**  
*Department of Management Science & Information Systems, University of Auckland*
- 1995 – 1998 **GIS tutor**  
*Department of Geography, University of Auckland*
- 1995 – 1997 **Computer Science tutor**  
*Department of Computer Science, University of Auckland*