

# ANDY HONG

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## QUALIFICATIONS

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Urban health researcher working at the nexus of urban planning and healthy community. Actively collaborating with researchers, policy makers, and community leaders to co-design a place-based approach to creating a healthier and more resilient place for everyone across the life span.

## AREAS OF EXPERTISE

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- Urban Planning
- Transportation
- Public Health
- Nature-based Solutions
- Age-Friendly Communities
- Urban Data Analytics

## EDUCATION

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- University of Southern California** August 2016  
Ph.D. in Urban Planning & Development, Price School of Public Policy  
Dissertation Title: *Healthy Mobility: Untangling the relationships between the built environment, travel behavior, and environmental health*  
Marlon Boarnet (chair), Lisa Schweitzer, and Scott Fruin
- University of Washington** June 2011  
Master of Urban Planning, Department of Urban Design and Planning  
Master of Public Administration, Evans School of Public Policy and Governance
- University of Washington** June 2004  
B.S. in Informatics, Information School  
Minor in Geography (GIS), Department of Geography

## ACADEMIC APPOINTMENTS

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- University of Utah**  
Director, Healthy Aging and Resilient Places Lab, College of Architecture + Planning 7/2021 - Present  
Assistant Professor, Department of City & Metropolitan Planning 7/2020 - Present
- University of Oxford** 9/2018 - 6/2020  
Lead Urban Health Scientist, Nuffield Department of Women's & Reproductive Health
- University of British Columbia** 8/2016 - 8/2018  
Postdoctoral Research & Teaching Fellow, School of Population & Public Health

## HONORARY AND VISITING APPOINTMENTS

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- The George Institute for Global Health** 7/2020 - Present  
Honorary Fellow, Global Office, New Town, NSW, Australia
- University of Surrey** 5/2019 - 5/2020  
Visiting Fellow, Royal College of General Practice Research and Surveillance Centre

## OTHER PROFESSIONAL EXPERIENCE

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- University of Southern California**  
*Research Fellow*, Price School of Public Policy, Los Angeles, CA 8/2015 - 8/2016  
*Research Assistant*, Price School of Public Policy, Los Angeles, CA 9/2011 - 8/2015  
*Data Analyst*, Program for Regional & Environmental Equity, Los Angeles, CA 6/2012 - 5/2013

**Korea Transport Institute***Junior Researcher*, Center for Bicycle Transportation Research, Ilsan, Korea

6/2009 - 9/2009

**Nelson\Nygaard Consulting Associates***Transportation Planning Intern*, Seattle Office, WA

1/2011 - 6/2011

**Republic of Korea Army***Intelligence Officer* (2nd Lieutenant), Operational Planning Division, FROKA, Korea

6/2007 - 6/2009

*Intelligence Officer* (1st Lieutenant), Office of the Commander, First Corps, Korea

3/2006 - 6/2007

**PUBLICATIONS**

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**Peer-reviewed journal articles**

1. Ahn, H., Lee, J., Hong, A. (2022) Urban form and air pollution: Clustering patterns of urban form factors related to particulate matter concentrations in Seoul, South Korea. *Sustainable Cities and Society*. 103859. doi: [10.1016/j.scs.2022.103859](https://doi.org/10.1016/j.scs.2022.103859) – Impact Factor: 7.587; Citation Count: NA.
2. Hong, A., Baker, L., Prieto, R., Buswala, B., Guan, C., Ravindranath, D., Duminy, J. (2022) Reconciling the gap between big data and thick data to advance the new urban science and smart city governance. *Journal of Urban Affairs*. doi: [10.1080/07352166.2021.2021085](https://doi.org/10.1080/07352166.2021.2021085) – Impact Factor: 3.377; Citation Count: NA.
3. Frank, L.D., Bigazzi, A., Hong, A., Minaker, L., Fisher, P., Raine, K. (2022) Built environment influences on healthy eating and active living: the NEWPATH study. *Obesity*. doi: [10.1002/oby.23352](https://doi.org/10.1002/oby.23352) – Impact Factor: 5.002; Citation Count: NA.
4. Frank, L.D., Adhikari, B., White, K.R., Dummer, T., Sandhu, J., Demlow, E., Hu, Y., Hong, A., Van den Bosch, M., (2022) Chronic disease and where you live: Built and natural environment relationships with physical activity, obesity, and diabetes. *Environment International*, 158, 106959. doi: [10.1016/j.envint.2021.106959](https://doi.org/10.1016/j.envint.2021.106959) – Impact Factor: 9.621; Citation Count: NA.
5. Houlden, V., Jani, A., Hong, A. (2021) Is biodiversity of greenspace important for human health and wellbeing? A scoping literature review. *Urban Forestry & Urban Greening* 66, 127385. doi: [10.1016/j.ufug.2021.127385](https://doi.org/10.1016/j.ufug.2021.127385) – Impact Factor: 4.537; Citation Count: 1.
6. Hong, A., Martinez, L., Patino, J.E., Duque, J., Rahimi, K. (2021) Green space and health disparities in the Global South: Evidence from Cali, Colombia. *Health & Place*, 72, 102690. doi: [10.1016/j.healthplace.2021.102690](https://doi.org/10.1016/j.healthplace.2021.102690) – Impact Factor: 4.078; Citation Count: NA.
7. Adhikari, B., Delgado-Ron, J.A., White, K.R., Van den Bosch, M., Dummer, T., Hong, A., Sandhu, J., Demlow, E., Hu, Y., Frank, L.D., (2021) Community Design and hypertension: Walkability and park access relationships with cardiovascular health. *International Journal of Hygiene and Environmental Health*, 237. doi: [10.1016/j.ijheh.2021.113820](https://doi.org/10.1016/j.ijheh.2021.113820) – Impact Factor: 5.840; Citation Count: 3.
8. Ahn, H., Lee, J., Hong, A. (2021) Does urban greenway design affect air pollution exposure? A Case Study of Seoul, South Korea. *Sustainable Cities and Society*, 72. doi: [10.1016/j.scs.2021.103038](https://doi.org/10.1016/j.scs.2021.103038) – Impact Factor: 7.587; Citation Count: 2.
9. Jo, Y., Hong, A., and Sung, H. (2021). Density or Connectivity: What Are the Main Causes of the Spatial Proliferation of COVID-19 in Korea?. *International Journal of Environmental Research and Public Health*, 18(10), 5084. doi: [10.3390/ijerph18105084](https://doi.org/10.3390/ijerph18105084) – Impact Factor: 3.39; Citation Count: 2.
10. Patino, J.E., Hong, A., Duque, J., Rahimi, K., Zapata, S., and Lopera, V.M. (2021) Built environment and mortality risk from cardiovascular disease and diabetes in Medellín, Colombia: An ecological study. *Landscape and Urban Planning*, 213, 104126. doi: [10.1016/j.landurbplan.2021.104126](https://doi.org/10.1016/j.landurbplan.2021.104126) – Impact Factor: 6.142; Citation Count: 1.
11. Frank, L.D., Hong, A., and Ngo, V.D. (2021) Build It and They Will Cycle: Causal Evidence from the Vancouver Comox Greenway. *Transport Policy*, 105: 1-11. doi: [10.1016/j.tranpol.2021.02.003](https://doi.org/10.1016/j.tranpol.2021.02.003) – Impact Factor: 3.382; Citation Count: 5.
12. Kang, J., Hong, A., Sung, H. (2021) Moderating effect of ICT use on the relationship between neighborhood walkability and subjective quality of life (QoL). *Journal of Korea Planning Association (Korean)*, 56(2): 37-48. doi: [10.17208/jkpa.2021.04.56.2.37](https://doi.org/10.17208/jkpa.2021.04.56.2.37)

13. Rosella, L., O'Neill, M., Fisher, S., Hurst, M., Dimert, L., Kornas, K., Hong, A., Manuel, D.G. (2020) A study protocol for a predictive algorithm to assess population-based premature mortality risk: Premature Mortality Population Risk Tool (PreMPoRT). *Diagnostic and Prognostic Research*, 4:18. doi: [10.1186/s41512-020-00086-z](https://doi.org/10.1186/s41512-020-00086-z) – Impact Factor: NA; Citation Count: 5.
14. Adhikari, B., Hong, A., and Frank, L.D. (2020) Residential relocation, preferences, life events, and travel behavior: A pre-post study. *Research in Transportation Business and Management*, 36 doi: [10.1016/j.rtbm.2020.100483](https://doi.org/10.1016/j.rtbm.2020.100483) – Impact Factor: 2.065; Citation Count: 3.
15. Rossa-Roccor, V., Acheson, E., Andrade-Rivas, F., Coombe, M., Ogura, S., Super, L., Hong, A. (2020) A scoping review and bibliometric analysis of the term ‘Planetary Health’ in the peer-reviewed literature. *Frontiers in Public Health* doi: [10.3389/fpubh.2020.00343](https://doi.org/10.3389/fpubh.2020.00343) – Impact Factor: 2.031; Citation count: 2.
16. Mei, K., Huang, H., Xia, F., Hong, A., Chen, X., Zhang, C., Qiu, G., Chen, G., Wang, Z., Wang, C., Yang, B., Xiao, Q., Jia, P. (2020) State-of-the-art of measures of the obesogenic environment for children. *Obesity Reviews*. doi: [10.1111/obr.13093](https://doi.org/10.1111/obr.13093) – Impact Factor: 8.48; Citation Count: 7.
17. Wang, Z., Zhao, L., Huang, L., Hong, A., Yu, C., Xiao, Q., Zou, B., Xin, J., Zhang, L., Zhang, J., Wang, Y., Jia, P. (2020) Traffic-related environmental factors and childhood obesity: A systematic review and meta-analysis. *Obesity Reviews*. doi: [10.1111/obr.12995](https://doi.org/10.1111/obr.12995) – Impact Factor: 8.48; Citation Count: 21.
18. Guan, C., Keith, M., and Hong, A. (2019) Designing walkable cities and neighborhoods in the era of urban big data. *Urban Planning International (Chinese)*, 34(5): 9-15. doi: [10.22217/upi.2019.389](https://doi.org/10.22217/upi.2019.389) – Impact Factor: NA; Citation Count: 6.
19. Hong, A., Kim, B., and Widener, M. (2019) Noise and the City: Leveraging crowd-sourced big data to examine the spatio-temporal relationship between urban development and noise annoyance. *Environment and Planning B: Urban Analytics and City Science*. doi: [10.1177/2399808318821112](https://doi.org/10.1177/2399808318821112) – Impact Factor: 2.046; Citation Count: 26.
20. Frank, L.D., Iroz-Elardo, N., MacLeod, K.E., and Hong, A. (2019) Pathways from built environment to health: A conceptual framework linking behavior and exposure-based impacts. *Journal of Transport & Health*, 12: 319-335. doi: [10.1016/j.jth.2018.11.008](https://doi.org/10.1016/j.jth.2018.11.008) – Impact Factor: 2.774; Citation Count: 67.
21. Hong, Andy (2019) Effect of mode shift from car to light rail on personal exposure: A controlled experiment. *Atmospheric Environment*, 196: 53-65. doi: [10.1016/j.atmosenv.2018.10.004](https://doi.org/10.1016/j.atmosenv.2018.10.004) – Impact Factor: 3.638; Citation Count: 5.
22. Frank, L.D., Mayaud, J., Hong, A., Fisher, Pat, Kershaw, Suzanne (2019) Unmet demand for walkable neighborhoods in a mid-sized Canadian community: Implications for planning. *Journal of Planning Education and Research*. doi: [10.1177/0739456X19831064](https://doi.org/10.1177/0739456X19831064) – Impact Factor: 7.217; Citation Count: 14.
23. Frank, L.D., Hong, A., and Ngo, V.D. (2019) Causal evaluation of urban greenway retrofit: A longitudinal study on physical activity and sedentary behavior. *Preventive Medicine*, 123: 109-116. doi: [10.1016/j.ypmed.2019.01.011](https://doi.org/10.1016/j.ypmed.2019.01.011) – Impact Factor: 3.434; Citation Count: 34.
24. Hong, A., Sallis, J.F., King, A.C., Conway, T., Saelens, B., Cain, K., and Frank, L.D. (2018) Linking green space to neighborhood social capital in older adults: The role of perceived safety. *Social Science & Medicine*, 207: 38-45. doi: [10.1016/j.socscimed.2018.04.051](https://doi.org/10.1016/j.socscimed.2018.04.051) – Impact Factor: 2.81; Citation Count: 61.
25. Boarnet, M.G., Hong, A., Santiago-Bartolomei, R. (2017) Urban spatial structure, employment subcenters, and freight travel. *Journal of Transport Geography*, 60: 267-276. doi: [10.1016/j.jtrangeo.2017.03.007](https://doi.org/10.1016/j.jtrangeo.2017.03.007) – Impact Factor: 2.89; Citation Count: 27.
26. Kim, D., Park, J., Hong, A. (2017) The role of destination’s built environment on nonmotorized travel behavior: A case of Long Beach, CA. *Journal of Planning Education and Research*. doi: [10.1177/0739456X16688765](https://doi.org/10.1177/0739456X16688765) – Impact Factor: 7.217; Citation Count: 17.
27. Hong, A., Boarnet, M.G., Houston, D. (2016) New light rail transit and active travel: A longitudinal study. *Transportation Research Part A: Policy and Practice*. 92: 131-144. doi: [10.1016/j.tra.2016.07.005](https://doi.org/10.1016/j.tra.2016.07.005) – Impact Factor: 3.02; Citation count: 43.
28. Hong, A., Schweitzer, L., Marr, L., Yang, W. (2015) Impact of temporary freeway closure on regional air quality: A lesson from Carmageddon in Los Angeles, United States. *Environmental Science & Technology*. 49 (5): 3211–3218. doi: [10.1021/es505185c](https://doi.org/10.1021/es505185c) – Impact Factor: 6.2; Citation Count: 14.

29. Hong, A. (2014) Do attitudes moderate the built environment impact on bicycle commuting? Findings from the 2009 National Household Travel Survey of the United States. *Korean Local Administration Review*, 11 (2): 155-172. link: [ISSN 1738-6098](#)
30. Hong, A. and Bae, C.-H.C. (2012) Exposure of bicyclists to air pollution in Seattle, Washington: Hybrid analysis using personal monitoring and land use regression. *Transportation Research Record*. 2270: 59-66. doi: [10.3141/2270-08](#) – Impact Factor: 0.77; Citation Count: 20.

### Patent

1. Frank, L. D., Chapman, J., Iroz-Elardo, N., Hong, E. A. (2020) Methods and systems for detecting environment features in images, predicting location-based health metrics based on environment features, and improving health outcomes and costs. U.S. Patent Application No. 16/119,829. [US20200075168A1](#).

### Book chapters

1. Jani, A. and Hong, A. (forthcoming) Urban Transitions, Green Infrastructure and Planetary Health. *Economics of Planetary Health*. The Rockefeller Foundation Planetary Health Economic Council. Oxford, UK.
2. Hong, A. (2018) Environmental Benefits of Active Transportation. In Richard Larouche (Ed.), *Children's Active Transportation*. Cambridge, UK: Elsevier. doi: [10.1016/B978-0-12-811931-0.00002-8](#)

### Op-ed/media contribution

1. Chakrabarti, S. & Hong, A. (2020) Keep cities moving during the global -19 pandemic. Thomson Reuters Foundation News. <https://news.trust.org/item/20200427112438-npvbo>
2. Hong, A. (2019) What can London learn from car-free cities around the world? Thomson Reuters Foundation News. <http://news.trust.org/item/20190920100921-ou5qd>

### Manuscripts under review

1. Hong, A. & Chakrabarti, S., (R&R) Compact living or policy inaction, which is to blame? Effects of urban density and lockdown on the COVID-19 pandemic in the U.S. *Urban Studies*.
2. Zhu, Y., Hong, A., Ramakrishnana, R., Nazarzadeh, M., Song, P., Canoy, D., Cai, Y., Rahimi, K. (under review) Disentangling multiple environmental stressors in relation to incident cardiovascular disease in UK Biobank: A sparse principal component analysis. *Environment International*.

### Working papers

1. Hong, A., Cole, S., Jani, A., Fairhurst, R., Kearsley, A., Gidlow, C. Crowdsourcing for citizen participation in smart cities (in preparation for submission to *Environment and Planning B*).
2. Hong, A. and Frank, L.D. Causal impact of transit on health: A conceptual framework, brief review, and research agenda (in preparation for submission to *International Journal of Public Health*).
3. Devries, D., Iroz-Elardo, N., Hong, A., Winters, M., Brauer, M., Frank, L.D. The health effects of fixed-guideway transit investment: A review of methods and best practice (in preparation for submission to *BMC Public Health*).
4. Hong, A., Kang, H., and Kim, R. Urban-rural differences in cognitive impairment among Korean older adults: A longitudinal cohort study (in preparation for submission to *Journal of Aging and Health*).
5. Hong, A., Fruin, S., and Ratnam, S. Effect of open streets events in Los Angeles on local air quality (in preparation for submission to *Science of the Total Environment*).

## TEACHING EXPERIENCE

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### Main instructor

Spring 2022      CMP 6455 - Advanced GIS Applications (Graduate course: 20 Master students, 4 PhD students)  
 Department of City & Metropolitan Planning, University of Utah

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|-------------|--|
| Spring 2022 | CMP 7501 - Ph.D. Research Seminar (First and second year PhD students)<br>Department of City & Metropolitan Planning, University of Utah   |
| Fall 2021   | CMP 4286 / 6280- Big Data in Transportation Workshop (Graduate course: 5 students)<br>Department of City & Metropolitan Planning, University of Utah   |
| Fall 2021   | CMP 4010 - Field Studies in Urban Ecology I (Undergraduate course: 60 students)<br>Department of City & Metropolitan Planning, University of Utah  |
| Spring 2021 | CMP 6455 - Advanced GIS Applications (Graduate course: 20 students)<br>Department of City & Metropolitan Planning, University of Utah  |
| Fall 2020   | CMP 4010 - Field Studies in Urban Ecology I (Undergraduate course: 60 students)<br>Department of City & Metropolitan Planning, University of Utah  |
| Summer 2019 | Urban Big Data Analytics, Big Data and New Technologies in Cities, Vancouver Summer Program (Undergraduate/graduate course: 50 students)<br>Course website: <a href="http://UrbanBigData.github.io">UrbanBigData.github.io</a><br>University of British Columbia |
| Summer 2018 | Urban Big Data Analytics, Big Data and New Technologies in Cities, Vancouver Summer Program (Undergraduate course: 32 students)<br>University of British Columbia  |

#### **Guest lecturer**

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|-------------|--|
| Spring 2019 | Making Healthy Cities. Spatial Dynamics of Urban China (Undergraduate course, New York University Shanghai)  |
| Spring 2018 | Site Design and Street Design Standards. PLAN 580: Introduction to Transportation Planning (Graduate course, University of British Columbia)                       |
| Spring 2018 | Introduction of Healthy Cities. CCT481H5S: Augmented Places and Social Media Spaces (Undergraduate course, University of Toronto)                                  |
| Fall 2017   | Linking the Built Environment with Large Health Administrative Data, SPPH 502: Epidemiological Methods I (Graduate course, University of British Columbia)         |
| Fall 2017   | Introduction to Health and Built Environment, PLAN 579: Public Health, Transportation, and the Built Environment (Graduate course, University of British Columbia) |
| Spring 2017 | Transportation Plan Making in Regional Scale, PLAN 580: Introduction to Urban Transportation Planning (Graduate course, University of British Columbia)            |
| Fall 2016   | Urbanization and Climate Change, GEOG 350: Introduction to Urban Geography (Graduate course, University of British Columbia)                                       |

#### **Teaching assistant**

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|-------------|--|
| Spring 2014 | PPD 557: Modeling and Operations Research (Graduate course, University of Southern California) |
| Fall 2012   | PPD 533: Planning History and Urban Form (Graduate course, University of Southern California)  |
| Fall 2012   | PPD 524: Planning Theory (Graduate course, University of Southern California)                  |

## **STUDENT SUPERVISION AND MENTORSHIP EXPERIENCE**

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### **Doctoral Student Supervision**

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| Wookjae Yang (Ph.D Student), University of Utah<br>Role: Ph.D. Supervisory Committee   | 8/2021 - Present |
| Junsik Kim (Ph.D Student), University of Utah<br>Role: Ph.D. Supervisory Committee   | 9/2020 - Present |
| Hassan Ameli (Ph.D Candidate), University of Utah<br>Role: Ph.D. Supervisory Committee   | 9/2020 - Present |
| Binay Adhikari (Ph.D), University of British Columbia<br>(Current position: Geospatial Data Scientist, British Columbia Centre for Disease Control)<br>Role: Co-Supervisor | 12/2016 - 3/2018 |
| Lili Shulman (All But Degree), University of British Columbia<br>Role: Co-Supervisor   | 12/2016 - 3/2018 |

### **Master Student Supervision**

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| Jessie Welch-Stockton (Master of Social Work; Role: RA Supervisor), University of Utah               | 8/2021 - Present |
| Cassandra Serna (Master of City & Metropolitan Planning; Role: RA Supervisor), University of Utah    | 8/2021 - Present |
| Emma Jones (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah       | 8/2021 - Present |
| Tyler Torres (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah     | 8/2021 - Present |
| Jenna Benson (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah     | 8/2021 - Present |
| William Goodreid (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah | 8/2021 - Present |
| Gordon Bennett (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah   | 8/2021 - Present |
| Rachel Stein (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah     | 8/2021 - Present |
| Matthew Lund (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah     | 8/2020 - Present |
| Madison Merrill (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah  | 8/2020 - Present |
| Cody Opperman (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah    | 8/2020 - Present |
| Evan Van Tassel (Master of City & Metropolitan Planning; Role: Faculty Advisor), University of Utah  | 8/2020 - Present |

## Undergraduate Student Supervision

Tessa Vu (Bachelor of Science in Environmental & Sustainability Studies; Role: Honor's Thesis Supervisor), University of Utah 3/2021 - Present

Jaime Cross (Bachelor of Arts in Urban Ecology; Role: RA Supervisor), University of Utah 8/2021 - Present

## GRANTS

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### Grants funded

PI, "Transportation for Seniors (T4S): Developing a New Accessibility Measure to Support Older Adults in a Post-Pandemic World," National Institute for Transportation and Communities (NITC), \$75,000 2021 - 2022

PI, "Healthy Aging and Resilient Places (HARP) Lab: Promoting Health and Resilience in Aging through Interdisciplinary Collaboration," Center on Aging, University of Utah, \$50,000 2021 - 2023

PI, "Systematic Review of Age-Friendly Environment Intervention Studies," World Health Organization, \$23,083 2021 - 2021

Co-PI (PI: V. Greer), "From Sheltered in Place to Thriving in Place: Dimensions of Aging in the 'Right' Place during the Pandemic," Scholarship Incentive Program, University of Utah, \$20,000 2021 - 2022

Collaborator (PI: S. He) "Low-Carbon Transport, Individual Wellbeing & Planetary Health in the Era of Smart Cities & New Mobilities," Research Development Fund 2019, Worldwide Universities Network (WUN), UK, £10,000 2020 - 2021

PI, "Nature Sensing: An IoT approach to characterising biodiversity of green spaces for planetary health," Connecting Capabilities Fund, Research England, UK, £49,840 2020 - 2021

PI, "Greenspace Hack: An IoT and crowdsource-enabled mobile app to design healthier and smarter green spaces," Connecting Capabilities Fund, Research England, UK, £50,000 2019 - 2020

Collaborator (PI: L. Rosella), "Planning tools to inform interventions to reduce avoidable hospitalization and premature mortality in Canadian cities," Canadian Institutes of Health Research, Canada, \$100,000 2019 - 2020

Co-PI (PI: L. Frank), "Developing a 2016 Built Environment/Walkability Surface for the Metro Vancouver Region," Metro Vancouver and TransLink, British Columbia, Canada, \$85,000 2017 - 2018

Co-PI (PI: L. Frank), "The Health Impacts of Rail Transit Investment: Synthesis of Evidence and Methodologies to Date," City of Vancouver, British Columbia, Canada, \$25,600 2017 - 2018

PI, "CitySensor: Development and Pilot Testing of Urban Environmental Sensor using Open-source Hardware and Software," Research Enhancement Grant, USC Graduate School, US, \$35,000 2015 - 2016

## HONORS & AWARDS

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| Finalist, Rural and Environmental Research Award, American Public Health Association, San Diego, CA  | 2018 |
| Healthy City Research "Think Tank" Travel Award, Canadian Research Institute of Health Research (CIHR), Toronto, ON, Canada                                      | 2017 |
| Research Enhancement Fellowship, University of Southern California, Los Angeles, CA  | 2015 |
| Association of Collegiate Schools of Planning PhD Workshop Scholarship, Boston, MA   | 2014 |
| Conference Travel Scholarship, Association of Collegiate Schools of Planning, Cincinnati, OH   | 2012 |
| APA University Student Projects Award, Washington Chapter of the American Planning Association and Planning Association of Washington, Portland, OR              | 2011 |
| Certificate of Commendation, Commanding General, FROKA, Wonju, Korea   | 2009 |
| Certificate of Recognition, Combat Service Support, 8th U.S. Army, Wonju, Korea  | 2008 |
| Certificate of Commendation, Commanding General, 1st Corps, Republic of Korea Army, Korea  | 2007 |
| Certificate of Commendation, Deputy Chief of Staff (G1-Personnel), Republic of Korea Army Headquarters, Korea  | 2007 |
| Graduate student fellowship, Evans School of Public Policy and Governance, University of Washington, Seattle, WA   | 2005 |
| NSF Integrative Graduate Education and Research Training (IGERT) scholarship in Urban Ecology, College of the Environment, University of Washington, Seattle, WA | 2003 |

## PRESENTATIONS AND INVITED TALKS

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### Scholarly Conferences

1. Hong A, Lee, C., Widener, M., Oviedo, D., Wang, X., Chrisinger, B., Planning for Healthy and Equitable Cities: International Perspectives, AESOP-ACSP Joint Roundtable Session at the 58th Annual Conference of the Association of Collegiate Schools of Planning (virtual). November, 2020.
2. Kang, Jae-Won, Hong Andy, Sung, Hyungun. Identifying the Moderating Impacts of Daily Use of ICTs between Quality of Life and Residential Walkability in Seoul. Presented at the 2019 International Conference Asia-Pacific Planning Societies (ICAPPS), Seoul, Korea, August, 2019.
3. Hong, Andy, Johnson, Emily, Frank, Lawrence. Beyond Home Environment: Combined effects of walkability at home and work on physical activity and sedentary behaviour. Presented at the International Society of Behavioral Nutrition and Physical Activity Conference, Prague, Czech. June, 2019.
4. Adhikari, Binay, Hong, Andy, Frank, Lawrence. Understanding travel behavior through changes in urban form, preference, and life events: A longitudinal study. Presented at the World Conference on Transport Research, Mumbai, India. May, 2019.
5. Frank, Lawrence, and Hong, Andy. Monetizing Health and Other Benefits of Transportation Investment and Policies. Presented at the Urban Transitions Conference, Sitges, Spain. November, 2018.
6. Iroz-Elardo N, Hong A, Devries D, Winters M, Brauer M, Frank LD. The health impacts of fixed-guideway transit investments: a systematic review and research agenda. Paper presented at the 58th Annual Conference of the Association of Collegiate Schools of Planning, Buffalo, NY. October, 2018.
7. Frank LD and Hong A, Monetizing health impacts of the built environment: Matching longitudinal health care utilization and cost with land use and transportation characteristics. Paper presented at the 58th Annual Conference of the Association of Collegiate Schools of Planning, Buffalo, NY. October, 2018.
8. Zou Z, Hong A, Chakrabarti S. Transit desirability: a novel market segmentation approach for predicting customer retention. Poster presented at the 58th Annual Conference of the Association of Collegiate Schools of Planning, Buffalo, NY. October, 2018.
9. Frank, Lawrence, and Hong, Andy. Monetizing Health Impacts of the Built Environment: Matching Longitudinal Health Care Utilization and Cost with Land Use and Transportation Characteristics. Paper scheduled for presentation at the NECTAR Cluster 7 workshop "Social and Health Issues", June 2018.



10. Hong, Andy, Kim, Byoungjun, and Widener, Michael. Noise and the City: Spatiotemporal relationship between development patterns and residential noise complaints. Paper presented at the North American Regional Science Council (NARSC) conference, Vancouver, BC. November 2017.
11. Hong, Andy, and Frank, Lawrence. Neighborhood walkability, driving time, and sedentary behavior among Canadian adults. Paper presented at the 57th Annual Conference of the Association of Collegiate Schools of Planning, Denver, CO. October, 2017.
12. Kim, Byoungjun, Hong, Andy, Widener, Michael. Noise and the City: Spatiotemporal relationship between development patterns and residential noise complaints. Paper presented at the 57th Annual Conference of the Association of Collegiate Schools of Planning, Denver, CO. October, 2017.
13. Hong, Andy, and Frank, Lawrence. Neighborhood green space, perceived safety, and social support among older adults: Results from the neighborhood quality of life study for seniors. Poster presented at the 57th Annual Conference of the Association of Collegiate Schools of Planning, Denver, CO. October, 2017.
14. Hong, Andy, Ratnam, S., Fruin, S. Effectiveness of temporary traffic ban as a local air pollution control measure: A natural experiment study. Paper presented at the 56th Annual Conference of the Association of Collegiate Schools of Planning, Portland, OR. November, 2016.
15. Hong, Andy. Commuter's paradox: Does switching to green transportation help us breathe clean air? Poster presented at the 56th Annual Conference of the Association of Collegiate Schools of Planning, Portland, OR. November, 2016.
16. Boarnet, Marlon G., Hong, Andy, Santiago-Bartolomei, Raul. Urban Spatial Structure, Employment Subcenters, and Freight Travel. Paper presented at the 55th Annual Meeting of the Western Regional Science Association, Big Island, HI. February, 2016.
17. Boarnet, Marlon G., Hong, Andy, Santiago-Bartolomei. Urban Spatial Structure, Employment Subcenters, and Freight Travel. Paper presented at the 95th Annual Meeting of the Transportation Research Board of the National Academies. Washington, DC. January, 2016.
18. Hong, Andy, Boarnet, M., Houston D. The impact of new light rail transit on physical activity: Quasi-experimental evidence from the Expo Line study. Paper presented at the 54th Annual Conference of the Association of Collegiate Schools of Planning, Philadelphia, PA. November, 2014.
19. Hong, Andy, Schweitzer L., Marr L., Yang W. The impact of temporary highway closure on air pollution: A lesson from Carmageddon in Los Angeles. Paper presented at the 52nd Annual Conference of the Association of Collegiate Schools of Planning, Cincinnati, OH. November, 2012.
20. Kim, D., Park, JiYoung, Hong, Andy. The role of destination on active travel in Long Beach, California: A nested logit modeling approach. Paper presented at the 52nd Annual Conference of the Association of Collegiate Schools of Planning, Cincinnati, OH. November, 2012.
21. Hong, Andy and Bae, C.-H C. Bicyclists' exposure to air pollution in Seattle: A hybrid analysis using personal monitoring and land use regression. Paper presented at the 91st Annual Meeting of the Transportation Research Board of the National Academies. Washington, DC. January, 2012.
22. Bae, C.-H C. and Hong, Andy. Bicyclists' exposure to air pollution: Seattle and Seoul compared, Paper presented at the 51st Annual Conference of the Association of Collegiate Schools of Planning, Salt Lake City, UT. October, 2011.
23. Bae, C.-H C. and Hong, Andy, Larson, T. V. Measuring bicyclists' exposure to black carbon emissions: The case of Seattle, Washington, Paper presented at the 50th Annual Meeting of the Western Regional Science Association, Monterey, CA. March, 2011.
24. Shin, H. C. and Hong, Andy. Infrastructure for sustainable transportation: implementation of nonmotorized transport in Korea, Paper presented at the East West Center Korea Transport Institute Conference, Honolulu, HI, August. 2009.

#### **Invited talks, seminars, panels**

1. Building Healthy Cities through Nature-based Solutions. HY-GRIP Seminar. Graduate School of Urban Studies, Hanyang University, Jan., 2022.
2. Towards Healthy Cities: The Role of Green Space. Ph.D. Seminar. Department of City & Metropolitan Planning, University of Utah, Oct., 2021.

3. Green Healthy City Research: Crowdsourcing App Development. Department of Urban Design and Studies, Chung-Ang University, Korea, Nov., 2020.
4. Healthy Cities and Green Space: From Garden City to Healthy New Towns, Healthy City Forum, Healthy New Town Research Consortium, Korea, Nov., 2020.
5. Healthy Mobility Research: A Natural Experimental Approach, Green Transportation Research Group, Korea Planning Association, Oct., 2020.
6. Making Sense of the Connection between Transportation and Health: A Natural Experimental Approach, Department of City & Metropolitan Planning, University of Utah, Oct., 2020.
7. Neighbourhood green space and health in Cali, Colombia, PEAK Urban Research, Centre on Migration, Policy and Society (COMPAS), University of Oxford, May., 2020.
8. Healthy Cities from the Bottom Up: A Human-centred Approach to Urban and Transport Planning , The Centre for Diet & Activity Research, MRC Epidemiology Unit, University of Cambridge, Mar., 2020. Video recording available at: [www.mrc-epid.cam.ac.uk/event/seminar-dr-andy-hong](http://www.mrc-epid.cam.ac.uk/event/seminar-dr-andy-hong)
9. Urban Green Spaces and Wellbeing, Global Centre on Healthcare and Urbanisation, Kellogg College, University of Oxford, Mar., 2020. Video recording available at: [www.kellogg.ox.ac.uk/news/urban-green-spaces-and-wellbeing-watch-the-film](http://www.kellogg.ox.ac.uk/news/urban-green-spaces-and-wellbeing-watch-the-film)
10. Impact Plan for the Research on Greens Space and Health, Planning for Impact in International Development Research Projects, Oxford University. Nov., 2019.
11. 'Prevention is Better than Cure:' Assessing the Public Health Implications of Urban Land Use Decisions, World Car Free Day London Summit, Sep., 2019.
12. Health and Place: Understanding Exposure and Behaviour Pathways, Leverhulme Centre for Demographic Science, Oxford University, Jun., 2019.
13. Turning Data into Action: A Data-driven Approach to Building Healthier and Smarter Cities. UCL The Bartlett Centre for Advanced Spatial Analysis, Mar., 2019
14. Roadway Closure: Implications for Urban Air Quality Management. Nature, Health and Built Environment (NHBE), St. Catherine's College, Oxford University. Feb., 2019.
15. From Sensing to Big Data: A Data-driven Approach to Addressing Environmental Health Inequalities, University of North Carolina at Charlotte, Jan., 2019.
16. Smart Cities for Health: Using Crowd-sourced 'Big Data' to Tackle Noise Pollution in a Rapidly Growing City. Young Scholar Society, Korea Planning Association, Seoul. Aug., 2018.
17. Leveraging Crowd-sourced Data to Tackle Noise Pollution in a Rapidly Growing City. Korea Institute of Science and Technology (KIST), Seoul. Aug., 2018.
18. Healthy Cities: Towards Building Healthier and Smarter Communities through Urban Planning and Technology. Univ. of Toronto, Mississauga, ON. Feb., 2018.
19. Building Healthier Communities through Urban Planning and Technology. OEH Seminar, School of Population and Public Health, Univ. of British Columbia, Vancouver, BC. Feb., 2018.
20. Does Switching to Green Transportation Help Us Breathe Cleaner Air? SCARP Research Conversation, School of Community and Regional Planning, Univ. of British Columbia, Vancouver, BC. Apr., 2017.
21. New Light Rail Transit and Active Travel: A Longitudinal Study. Civil Engineering Transportation Seminar. Univ. of British Columbia, Vancouver, BC. Nov., 2016.
22. Commuter's Paradox: Does Switching from Car to Light Rail Help Us Breathe Clean Air? Southern California Association of Governments. Los Angeles, CA. Jul., 2016.
23. Healthy Mobility: Untangling the Relationships between the Built Environment, Travel Behavior, and Environmental Health, Central Washington University, Seattle, WA. Feb. 2016.
24. Healthy Transportation: Integrated Framework for Understanding the Link between Transportation, Physical Activity, and Air Pollution, Korea Transport Institute, Korea. Jul., 2014.
25. Can Light Rail Increase Neighborhood Physical Activity? METTRANS research seminar, Univ. of Southern California. Los Angeles, CA. May., 2014.

26. Measuring Bicyclists' Exposure to Traffic Emissions: An Application of Mobile Monitoring, Southern California Association of Governments. Los Angeles, CA. Nov., 2011.

## LEADERSHIP, SERVICE & COMMUNITY ENGAGEMENT

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### Academic leadership

|  |                |
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| Executive Board Member, Academy of Urban Health, Korea   | 2022 - present |
| Co-founder, Healthy City Futures, Department of City and Metropolitan Planning, University of Utah ( <a href="https://twitter.com/healthycityfut">twitter.com/healthycityfut</a> ) | 2018 - present |
| Member, Planetary Health Network, School of Population and Public Health, University of British Columbia   | 2018 - present |
| Member, Healthy City Research Think Tank, Canadian Institute of Health Research (CIHR), Canada   | 2017 - present |
| Member, Neighborhood Factor Team, Canadian Urban Environmental Health Research Consortium (CANUE), Canada  | 2016 - present |
| Member, British Columbia Healthy Built Environment Alliance  | 2016 - present |

### Academic service

|   |                |
|---|----------------|
| Review editor for:<br>Frontiers in Sustainable Cities   | 2021 - present |
| Referee for:<br>American Journal of Preventive Medicine<br>American Journal of Public Health<br>Environment and Planning B<br>Journal of Planning and Education Research<br>Environment International<br>Travel Behavior and Society<br>Transport Policy<br>Journal of Transport Geography<br>Urban Forestry & Urban Greening | 2013 - present |

### Community service and engagement

|   |             |
|---|-------------|
| Member of the Policy Subcommittee, Active Transportation Policy Council, City of Vancouver, British Columbia, Canada                    | 2017 - 2018 |
| Founding member, Price Transportation Group, USC METRANS Transportation Center, Los Angeles, CA   | 2015 - 2016 |
| GPSS Representative, Student Transportation Task Force, Graduate and Professional Student Senate, University of Washington, Seattle, WA | 2010 - 2011 |
| Member, Seattle Innovators (non-profit), Seattle, WA  | 2009 - 2011 |

## PROFESSIONAL MEMBERSHIPS

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Association of Collegiate Schools of Planning  
 American Planning Association  
 American Association of Geographers  
 Royal Geographical Society  
 European Association of Geographers  
 American Public Health Association  
 International Society of Behavioral Nutrition and Physical Activity  
 Active Living Research  
 International Society of Exposure Science  
 International Society for Environmental Epidemiology  
 Association of Information Science and Technology

## INNOVATION & ENTREPRENEURSHIP

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Greenspace Hack: A collaborative project with local governments aiming at developing a crowdsourcing-enabled smartphone app with multiple choice items and free text based on understanding and usability of green space. ([pitch-in.ac.uk/projects/greenspace-hack](http://pitch-in.ac.uk/projects/greenspace-hack))

CitySensor: An interdisciplinary project to develop a mobile environmental monitoring platform using Arduino (open-source prototyping platform) and commercially available air pollution and meteorology monitoring devices. ([andyhong.org/innovations](http://andyhong.org/innovations))

BikePed Analytics: A collaboration with UCLA and Placemeter™ to apply and validate computer-vision technology to detect and quantify pedestrians, bicyclists, and vehicles using real-time video feeds from IP cameras and CCTV cameras. ([andyhong.org/innovations](http://andyhong.org/innovations))

## MEDIA COVERAGE

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TheCityFix. Mar. 1, 2022. What Are We Learning About Urban Wellbeing During COVID-19? <https://thecityfix.com/blog/what-are-we-learning-about-urban-wellbeing-during-covid-19>

BBC Radio. Sep. 9, 2020. Radio interview as part of Costing the Earth episode, "Autopia to Utopia? Car-Free Cities". <https://www.bbc.co.uk/programmes/m000mb3g>

eldiario.es, Jan. 23, 2020, (In Spanish) El alcalde de Gante tuvo que ponerse chaleco antibalas por restringir el tráfico, ahora Birmingham copia su exitoso modelo. [https://www.eldiario.es/ballenablanca/365\\_dias/alcalde-Gante-antibalas-restringir-Birmingham\\_0\\_987951801.html](https://www.eldiario.es/ballenablanca/365_dias/alcalde-Gante-antibalas-restringir-Birmingham_0_987951801.html)

CBC. Mar. 23, 2019. The closer you live to an urban greenway, the more physically active you are, says UBC study. <https://www.cbc.ca/news/canada/british-columbia/greenways-make-us-more-active-1.5069351>

StreetsBlog USA. Mar. 26, 2019. Good Bike and Ped Infrastructure Actually Makes Neighbors Healthier <https://usa.streetsblog.org/2019/03/26/study-good-bike-and-red-infrastructure-actually-makes-neighbors-healthier>

CityLab. 2016. When Light Rail Opens, Do People Really Get More Exercise? <https://www.citylab.com/transportation/2016/09/when-light-rail-opens-do-people-really-get-more-exercise/499139>

## SKILLS & TOOLS

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|--------------------------------|---|
| <b>Statistical programming</b> | R (lme4, plyr, ggplot2), Python (SciPy, NumPy, scikit-learn), Stata, SAS            |
| <b>Spatial analysis</b>        | ArcGIS (model builder, network analyst), QGIS, CartoDB, MapBox, Leaflet.js          |
| <b>Databases</b>               | MySQL, PostgreSQL, Google BigQuery, Amazon Web Services (AWS)                       |
| <b>Data visualization</b>      | Tableau, Story Maps, Photoshop, Sketch-up, JavaScript (D3.js, Plotly.js), R (shiny) |
| <b>Language</b>                | Bilingual (English-Korean)  |

*Last updated March 2022*