

Steve Hankey

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Present Position: *Assistant Professor of Urban Affairs and Planning*, College of Architecture and Urban Studies, Virginia Polytechnic Institute and State University.

Education

- 2014 *PhD*, Civil Engineering, University of Minnesota.
2012 *MURP*, Urban and Regional Planning, University of Minnesota, *Minor*: Public Health.
MS, Civil Engineering, University of Minnesota.
2005 *BS*, Chemical Engineering, University of Wisconsin.

Teaching Experience

- 2014-2015 *Instructor*, Land Use and Environment: Planning and Policy.
Instructor, Topics in Transport Policy: Planning for cyclists and pedestrians.
2013-2014 *Graduate Instructor*, Introduction to GIS: Applications in Planning and Policy Analysis.

Awards and Honors

- 2013 *Sally Liu Outstanding Doctoral Student in Air Pollution Exposure Science Award*, Annual meeting of the International Society of Exposure Science.
2nd Place: Presentation and Paper Competition. Young Researcher Seminar. Sponsors: European Conference of Transport Research Institutes; Forum of European Road Safety Research Institutes.

Media appearances and coverage

- 2013 Star Tribune article. "His work may lead to cleaner cycling routes." July 25.
<http://www.startribune.com/local/blogs/216949181.html>.
2012 WCCO evening news clip. "U of M Grad Student Researches Pollution Effects on Cyclists." September 26. <http://minnesota.cbslocal.com/2012/09/26/u-of-m-grad-student-researches-pollution-effects-on-cyclists/>.

Professional Experience

- 2006-2008 *Operations Manager*, Zipcar Inc. Responsible for the launch of 2 Zipcar markets (Toronto, ON and Vancouver, BC) and managing 5-10 employees per market.

International Experience

- 2010-2011 *Pre-doctoral Researcher*, 6 months on a research team at CREAL in Barcelona, Spain.
2009-2010 *Project Lead*, Engineers Without Borders. Managed a 10 student team that monitored indoor air quality in 50 rural Ugandan households and introduced an improved stove.
2008-2009 *Project Lead/Member*, Engineers Without Borders. Co-managed a 20 student team during the construction of a solar powered groundwater supply system.
2004-2005 *Study abroad*, University of Oviedo (Spain, 3 months) and the Technical University of Denmark (6 months).

Professional Organizations

Transportation Research Board (TRB); American Planning Association (APA);
International Society of Environmental Epidemiology (ISEE).

Peer Reviewed Publications

- In Progress Hankey, S., Marshall, J., *Exposure to on-road particulate air pollution while cycling.*
Hankey, S., Marshall, J., *Land use regression models of particulate air pollution from mobile measurements.*
Hankey, S., Lindsey, G., *Using land use regression models to estimate bicycle and pedestrian traffic volumes.*
- Submitted Lindsey, G., Hankey, S., Marshall, J., *New Performance Measures for Urban Trails.* Journal of Park and Recreation Administration (Impact Factor [IF]: N/A).
- In press Hankey, S., Sullivan, K., Kinnick, A., Koskey, A., Grande, K., et al., *Using objective measures of stove use and indoor air quality to evaluate an improved cookstove intervention in rural Uganda.* Energy for Sustainable Development (IF: 2.22).
- 2015 Dekoninck, L., Botteldooren, D., Int Panis, L., Hankey, S., Marshall, J., et al., *Applicability of a noise-based model to estimate in-traffic exposure to black carbon and particle number concentrations in different cultures.* Environment International (IF: 6.2).
- 2014 Hankey, S., Lindsey, G., Marshall, J.D., *Day-of-year scaling factors and design considerations for non-motorized traffic monitoring programs.* Transportation Research Records (IF: 0.44).
- 2012 Wang, X., Lindsey, G., Hankey, S., *Estimating non-motorized trail traffic using negative binomial regression models.* Journal of Urban Planning and Development (IF: 0.95).
- 2012 Hankey, S., Lindsey, G., Wang, X., Borah, J., et al., *Estimating use of non-motorized infrastructure: models of bicycle and pedestrian traffic in Minneapolis, MN.* Landscape and Urban Planning (IF: 2.31).
- 2010 Hankey, S., Marshall, J.D., Brauer, M., *Health impacts of the built environment: within-urban variability in physical inactivity, air pollution, and ischemic heart disease mortality.* Environmental Health Perspectives (IF: 7.26).
- 2010 Hankey, S., Marshall, J.D., *Impacts of urban form on future U.S. passenger-vehicle greenhouse gas emissions.* Energy Policy (IF: 2.74).
- 2009 Boies, A., Hankey, S., Kittelson, D., Marshall, J.D., et al., *Reducing motor vehicle greenhouse gas emissions in a non-California state: a case study for Minnesota.* Environmental Science and Technology (IF: 5.26).

Technical Reports

- 2013 Lindsey, G., Hankey, S., Wang, X., Chen, J., “The Minnesota Bicycle and Pedestrian Counting Initiative: Methodologies for Non-motorized Traffic Monitoring,” Final Report: Minnesota Department of Transportation, Research Services Section, St. Paul, MN.
Lindsey, G., Hankey, S., Wang, X., “Feasibility of Using GPS to Track Bicycle Lane Positioning,” Final Report: Intelligent Transportation Systems Institute, Center for Transportation Studies, University of Minnesota, Minneapolis, MN.
- 2012 Lindsey, G., Hoff, K., Hankey, S., Wang, X., “Understanding Non-Motorized Transportation Facilities,” Final Report Intelligent Transportation Systems Institute, Center for Transportation Studies, University of Minnesota, Minneapolis, MN.

Conference Presentations

- 2015 *Poster Presentation*, “Exposure to particulate air pollution while cycling,” Transportation Research Board (TRB), January 2015, Washington, DC.

- 2014 *Oral Presentation*, “Describing spatial patterns of non-motorized traffic: Models of bicycle and pedestrian traffic for use in practice,” Association of Collegiate Schools of Planning (ACSP) Conference, October 2014, Philadelphia, PA.
- Oral Presentation*, “Modeling spatial patterns of bicycle and pedestrian traffic to estimate exposure to hazards,” International Society of Environmental Epidemiology (ISEE), August 2014, Seattle, WA.
- Poster Presentation*, “Using objective measures of stove use and indoor air quality to evaluate a cookstove intervention in rural Uganda,” ISEE, August 2014, Seattle, WA
- Oral Presentation*, “Performance measures for urban trails: Minneapolis, MN,” Center for Transportation Studies Research Conference (CTS), May 2014, St. Paul, MN.
- Poster Presentation*, “Measuring particulate air pollution exposure using a mobile bicycle-based platform,” Active Living Research (ALR), March 2014, San Diego, CA.
- Oral Presentation*, “Day-of-year scaling factors and design considerations for non-motorized traffic monitoring programs,” TRB, January 2014, Washington, DC.
- 2013 *Oral Presentation*, “Comparing spatial patterns of non-motorized traffic and particulate air pollution in Minneapolis, MN,” ISEE, August 2013, Basel, Switzerland.
- Oral Presentation*, “Neighborhood walkability and air pollution exposure,” ISEE, August 2013, Basel, Switzerland.
- Poster Presentation*, “Measuring and modeling particulate air pollution using a mobile, bicycle-based platform,” ISEE, August 2013, Basel, Switzerland.
- Poster Presentation*, “Measuring particulate air pollution by bicycle,” Bicycle Urbanism Symposium, June 2013, Seattle, WA.
- Oral Presentation*, “Measuring particulate air pollution using a mobile, bicycle-based platform: Implications for cyclists’ and pedestrians’ exposure to urban air pollution,” ECTRI-FERSI Young Researcher Seminar, June 2013, Lyon, France.
- Oral Presentation*, “Measuring particulate air pollution using a mobile, bicycle-based platform,” CTS, May 2013, St. Paul, MN.
- 2012 *Poster Presentation*, “Estimating use of non-motorized infrastructure: Models of pedestrian and bicycle traffic in Minneapolis, MN”, ALR, March 2012, San Diego, CA.
- Oral Presentation*, “Evaluating non-motorized transportation infrastructure in Minneapolis”, CTS, May 2012, St. Paul, MN.
- 2011 *Poster Presentation*, “Health impacts of the built environment: within-urban variability in physical inactivity, air pollution, and heart disease mortality”, ISEE, September 2011, Barcelona, Spain.
- 2010 *Oral Presentation*, “Health impacts of the built environment: physical inactivity, air pollution, and ischemic heart disease in Los Angeles, CA”, ISEE, August 2010, Seoul, Korea.
- 2009 *Oral Presentation*, “Rural water supply in Masaka, Uganda”, Central States Water Environment Association Annual Conference, May 2009, Chicago, IL.
- Oral Presentation*, “Future passenger-vehicle CO₂ emissions: Application of an urban scaling rule”, Transportation, Planning, Land Use and Air Quality Annual Conference, July 2009, Denver, CO.
- 2008 *Oral Presentation*, “Reducing greenhouse gas emissions from transportation sources in Minnesota”, Minnesota Public Transit Association Conference, September 2008, St. Paul, MN.