

## ***Curriculum Vitae***

### **Steven Spears, PhD**

349 Jessup Hall  
University of Iowa  
School of Urban and Regional Planning  
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#### **EDUCATION**

- PhD in Planning, Policy & Design** September, 2013  
Department of Planning, Policy, and Design, University of California, Irvine  
Specialization: Design-Behavior Research  
Dissertation title: *The Perception-Intention-Adaptation (PIA) Model: a theoretical framework for examining the effect of behavioral intention and neighborhood perception on travel behavior.*
- Master of Urban and Regional Planning** May, 2008  
Virginia Commonwealth University, Richmond, VA  
Thesis title: *Beyond the Early Adopters: Examining the Potential for Car Sharing in Richmond, Virginia*
- Postgraduate Diploma in Transport and Planning** June, 2007  
School of City and Regional Planning, Cardiff University, Wales UK
- Bachelor of Science in Mechanical Engineering** December, 1991  
Clemson University, Clemson, SC

#### **PROFESSIONAL EXPERIENCE**

- August 2014 – present  
Assistant Professor, University of Iowa School of Urban and Regional Planning
- September 2013 – July 2014  
*Assistant Research Scientist, Institute for Transportation Studies, University of California, Irvine*
- May 2011 – September 2013  
*Graduate Research Assistant, Neighborhood Travel and Activity Study (NTAS), Institute for Transportation Studies, University of California, Irvine*
- January – September 2010  
*Graduate Research Assistant, Institute for Transportation Studies, University of California, Irvine*
- January 2006 - August 2006, October 2007 – August 2008  
*Policy and Planning Specialist II, Virginia Department of Transportation, Richmond, Virginia*

## **PROFESSIONAL EXPERIENCE (cont.)**

January 2001 - May 2005

*Aeronautical Engineer / Mission Manager, DynCorp/CSC Technical Services, NASA Wallops Flight Facility, Wallops Island, Virginia*

May 2000 - December 2000

*Airport Engineer / Planner, Talbert and Bright, Inc., Chesterfield, Virginia*

July 1998 - May 2000

*Research Assistant, Atmospheric Sciences Department, Univ. of North Dakota, Grand Forks*

April 1995 - July 1998

*Airport Engineer, Talbert and Bright, Inc., Midlothian, Virginia*

January 1993 - April 1995

*Project Engineer II, Delta Airport Consultants, Richmond, Virginia*

## **AWARDS AND HONORS**

Association of Collegiate Schools of Planning Annual Conference Best Poster - 2017.

University of California Transportation Center Student of the Year - 2013

University of California Transportation Center Fellowship - 2009, 2011, 2013

UCI School of Social Ecology - Dean's Dissertation Writing Fellowship - 2012

Federal Highways Administration - Eisenhower Fellowship - 2010

UCI Dept. of Planning, Policy, and Design, Summer Research Fellowship - 2009

Univ. of North Dakota Atmospheric Science Dept., Outstanding Graduate Student 1999, 2000

Clemson University Presidential Alumni Scholarship - 1987-1989

## **TEACHING EXPERIENCE**

*University of Iowa, School of Urban and Regional Planning*

URP:6225 Applied GIS for Planners – Spring 2015-2018

URP:4262 Transportation Demand Analysis – Spring 2015-2018

URP:6266 Transportation and Land Use Planning – Fall 2014-2017

URP:6209/10 Field Problems in Planning I/II – Spring/Fall 2014-2018

*University of California, Irvine, School of Social Ecology*

Instructor – PPD 212 Transportation Planning (graduate) - Winter 2014

Guest Lecturer – PPD 107 Urban and Regional Planning (undergraduate) - Spring 2013, 2014

Teaching Assistant – SE 13 Statistical Analysis in Social Ecology (undergraduate) - Winter 2011

Teaching Assistant – PPD 202 History of Urban Planning (graduate) - Fall 2010

Guest Lecturer – PPD 231 Transportation and Environmental Health (graduate) - Winter 2010

Teaching Assistant – E8 Intro. to Env. Design and Analysis (undergraduate) - Winter 2009

## PUBLICATIONS

### Peer-reviewed Journal Articles

Lee, Jeongwoo; Boarnet, Marlon; Houston, Douglas; Nixon, Hilary; **Spears, Steven**. 2017. "Changes in Service and Associated Ridership Impacts near a New Light Rail Transit Line." *Sustainability* 9, no. 10: 1827.

**Spears, Steven**, Marlon G Boarnet, and Douglas Houston. 2017. "Driving Reduction after the Introduction of Light Rail Transit: Evidence from an Experimental-Control Group Evaluation of the Los Angeles Expo Line." *Urban Studies*, July, 0042098016657261. doi:10.1177/0042098016657261.

Houston, Douglas, Marlon G. Boarnet, Gavin Ferguson, and **Steven Spears**. 2015. "Can Compact Rail Transit Corridors Transform the Automobile City? Planning for More Sustainable Travel in Los Angeles." *Urban Studies*, April, 0042098014529344. doi:10.1177/0042098014529344.

**Spears, Steven**, Douglas Houston, and Marlon G. Boarnet. 2013. "Illuminating the Unseen in Transit Use: A Framework for Examining the Effect of Attitudes and Perceptions on Travel Behavior." *Transportation Research Part A: Policy and Practice* 58 (December): 40–53. doi:10.1016/j.tra.2013.10.011.

Salon, Deborah, Marlon G. Boarnet, Susan Handy, **Steven Spears**, and Gil Tal. 2012. "How Do Local Actions Affect VMT? A Critical Review of the Empirical Evidence." *Transportation Research Part D: Transport and Environment* 17 (7): 495–508. doi:10.1016/j.trd.2012.05.006.

### Book Chapters

Marlon G. Boarnet, Douglas Houston, Gavin Ferguson, and **Steven Spears**. 2011. "Land Use and Vehicle Miles of Travel in the Climate Change Debate: Getting Smarter than Your Average Bear" in *Climate Change and Land Policies*, edited by Yu-Hung Hong and Gregory Ingram, Cambridge, Massachusetts: Lincoln Institute of Land Policy. ISBN 978-1-55844-217.

### Book Reviews

Spears, Steven. 2016. "Book Review: Pedestrian- and Transit-Oriented Design." *Journal of Planning Education and Research*, October, 0739456X16675469. doi:10.1177/0739456X16675469.

### Journal Articles in Review and Preparation

*Steven Spears*. "The Perception-Intention-Adaptation Model of Travel Behavior Change: Application to the Exposition Line Opening in Los Angeles." In preparation for *Environment and Behavior* – expected submission, February 2018.

Cara Hamann and Steven Spears. "Parent-child Bicycling Safety Communication." In preparation for the *Journal of Community Health* - expected submission, March 2018

## **Journal Articles in Review and Preparation (cont.)**

Steven Spears and Cara Hamann. *"Route Choice of 10-15 Year Old Cyclists to School: Implications for Safe Routes Infrastructure."* In preparation for the Journal of Transport and Health.

Steven Spears, Helena Laroche and Mark Berg. "Pathways to health: walkability, healthy food, active places and obesity among low-income Midwest families." In preparation for the American Journal of Public Health.

## **CONFERENCE PAPERS**

Cara J Hamann, Steven Spears and Corine Peek-Asa. "Pedal Portal: A technological approach to capturing bicycling risk exposure." American Public Health Association Annual Meeting, Atlanta, GA. November 7, 2017.

Steven Spears, Douglas Houston, and Marlon Boarnet. *"Do Travel Effects of New Light Rail Service Persist? An examination of longer-term impacts of Los Angeles' Expo Line on travel behavior."* Association of Collegiate Schools of Planning Annual Conference, 2014.

Steven Spears, Douglas Houston, and Marlon Boarnet. *"Illuminating the Unseen in Neighborhood Travel: A Framework for Examining the Influence of Attitudes, Norms, and Perceptions on Travel Behavior."* Association of Collegiate Schools of Planning Annual Conference, 2012.

Douglas Houston, Marlon Boarnet, Wei Li, Steven Spears, and Dongwoo Yang. "How far to the bus? Transit proximity, bus ridership, and physical activity in a low income community." Association of Collegiate Schools of Planning Annual Conference, 2012.

## **PUBLIC SCHOLARSHIP AND RESEARCH REPORTS**

Spears, Steven. *Investing in light rail can reduce how much people drive – but only for those close to stations.* London School of Economics and Political Science USApp – American Politics and Policy Blog. Blog Entry. September 7, 2016

Nixon, H., Boarnet, M. G., Houston, D., Spears, S., and Lee, J. *Changes in Transit Use and Service and Associated Changes in Driving Near a New Light Rail Transit Line.* MTI Report 12-44. Mineta Transportation Institute. May, 2015.

Houston, D., M. G. Boarnet, and S. Spears. *Evaluating the Benefits of Light Rail Transit.* Prepared for the California Air Resources Board and the California Environmental Protection Agency. Contract Number 12-313. February, 2015.

Marlon G. Boarnet, Steven Spears and Susan Handy. *Impacts of Road User Pricing on Passenger Vehicle Use and Greenhouse Gas Emissions.* Policy Brief and Technical Background Document. California Air Resources Board. September 30, 2014.

Steven Spears, Marlon G. Boarnet and Susan Handy. *Impact of Parking Pricing and Parking Management on Passenger Vehicle Use and Greenhouse Gas Emissions.* Policy Brief and Technical Background Document. California Air Resources Board. September 30, 2014.

## **PUBLIC SCHOLARSHIP AND RESEARCH REPORTS (cont.)**

Steven Spears, Marlon G. Boarnet, Susan Handy and Caroline Rodier. *Impacts of Land-Use Mix on Passenger Vehicle Use and Greenhouse Gas Emissions*. Policy Brief and Technical Background Document. California Air Resources Board. September 30, 2014.

Boarnet, M. G., Hong, A., Lee, J., Wang, X., Wang, W., Houston, D., & Spears, S. *The Exposition Light Rail Line Study: a Before and After Study of the Impact of New Light Rail Transit Service*. Prepared for the Haynes Foundation, 2013.

Marlon Boarnet, Douglas Houston, and Steven Spears. *The Exposition Light Rail Line Study "Before-After" Opening Travel Impacts and New Resident Sample Preliminary Analysis*. Prepared for the Lincoln Institute of Land Policy, June 2013.

Susan Handy, Kristin Lovejoy, Marlon G. Boarnet and Steven Spears. *Impacts of Transit Service Strategies on Passenger Vehicle Use and Greenhouse Gas Emissions*. Policy Brief and Technical Background Document. California Air Resources Board. October 8, 2013.

Steven Spears, Marlon G. Boarnet and Susan Handy. *Impacts of Voluntary Travel Behavior Change Programs*. Policy Brief and Technical Background Document. California Air Resources Board. December 3, 2013.

Marlon G. Boarnet, Douglas Houston, and Steven Spears. *The Exposition Light Rail Line Study "Before-Opening" Data Collection and Preliminary Analysis Report*. Prepared for the Lincoln Institute of Land Policy, June 2012.

## **PRESENTATIONS AND INVITED TALKS**

Des Moines Area MPO. "Bicycle Safety Research Highlights." Des Moines, Iowa. May 4, 2017

5<sup>th</sup> International Cycling Safety Conference. "Route Choice of 10-15-Year-Old Cyclists to School: Implications for Safe Routes Infrastructure." Bologna, Italy. November 3, 2016

2<sup>nd</sup> Workshop on Naturalistic Cycling Analysis. "Pedal Portal Naturalistic Bicycling Studies." Bologna, Italy. November 2, 2016. (co-presenter with Cara Hamann)

Iowa DOT Statewide Traffic Records Coordinating Committee Meeting. "Bicycling to School: Route choice and parent communication". North Liberty, Iowa. September 15, 2016.

Kohn Colloquium Series, University of Iowa Department of Geographical and Sustainability Studies, "Can Public Transportation Investment Change Minds as Well as Behavior? A Look at LA's Expo Line Light Rail". Iowa City, Iowa. February 13, 2015.

Association of Collegiate Schools of Planning Annual Conference, Paper Presentation, "Do Travel Effects of New Light Rail Service Persist? An examination of longer-term impacts of Los Angeles' Expo Line on travel behavior." Philadelphia, Pennsylvania. October 29, 2014

METRANS Transportation Center, University of Southern California, "Which matters more for transit use, access or attitudes? Insights from data from the Exposition light rail corridor." Los Angeles, California. October 24, 2012.

## **PRESENTATIONS AND INVITED TALKS (cont.)**

Association of Collegiate Schools of Planning Annual Conference, Paper Presentation,  
*"Illuminating the Unseen in Neighborhood Travel: A Framework for Examining the Influence of Attitudes, Norms, and Perceptions on Travel Behavior."* Cincinnati, Ohio. November 2, 2012.

## **RESEARCH GRANTS**

Iowa DOT Transportation Safety Improvement Program  
Co-PIs: Cara Hamann, Steven Spears, Sam Sturtz  
Proposal Title: Non-motorized Traffic Monitoring, Phase II.  
Funded budget: \$60,000. Duration: July 2018-June 2019.

University of Iowa Injury Prevention Research Center  
PI: Steven Spears, Co-Investigator: Cara Hamann  
Proposal title: Advanced bicycle safety system effects on bicyclist behavior, stress, and vehicle lateral passing distance.  
Funded amount: \$22,484. Duration: July 2017-June 2018.

Iowa DOT Transportation Safety Improvement Program  
Co-PIs: Cara Hamann, Steven Spears, Sam Sturtz  
Proposal Title: Non-motorized Traffic Monitoring, Phase I.  
Funded budget: \$50,000. Duration: July 2017-June 2018.

University of Iowa Institute for Clinical and Translational Science  
Co-PIs: Helena Laroche, Steven Spears, Mark Berg  
Proposal title: The Social and Physical Ecology of Physical Activity, Dietary Patterns, and Body Mass Index: A Multilevel Examination of Obesity among Low Income Midwestern Families  
Funded budget: \$45,000. Duration: July 2016-June 2017.

University of Iowa Injury Prevention Research Center  
Co-PIs: Cara Hamann, Steven Spears  
Proposal title: Bicycling to School: Route and School Siting Safety Effects  
Funded budget: \$22,357. Duration: July 2015-June 2016.

## **UNIVERSITY AND SCHOOL SERVICE**

URP:6209 & 6210 Field Problems I & II - Student Capstone Projects Supervisor  
Interdisciplinary Graduate Program in Informatics: SURP Representative  
SURP AICP Student Award Committee  
Instructor – SURP Incoming Student "Boot Camp" Fall 2015 - 2017  
PhD Dissertation Committee member – Elizabeth Westlake, Dept. of Civil and Env. Eng.  
Practicum committee member – Samantha Whitrock, Urban and Regional Planning

## **PROFESSIONAL SERVICE**

Peer Reviewer, *Transportation Planning Part A: Policy and Practice*

Peer Reviewer, *Transportation Planning Part D: Transport and Environment*

Peer Reviewer, Traffic Injury Prevention

Peer Reviewer, *International Planning Studies*

Peer Reviewer, *Journal of Transport and Health*

Peer Reviewer, *International Journal of Sustainable Transportation*

Advisory Board Member - Escuela de Gobierno, Alta Dirección y Políticas Públicas, Mexico

## **COMMUNITY SERVICE**

I-380 Corridor Commuter Transportation Steering Committee and Express Bus Service

Subcommittee Member, January 2015 – March 2017

Accomack County, Virginia - Airport Commission Chair - 2005

Accomack County, Virginia - Airport Commission Member - 2002-2005