

## **CURRICULUM VITAE**

**Hyeon-Shic Shin, Ph.D.**

Assistant Research Professor  
National Transportation Center  
Morgan State University  
1700 E. Cold Spring Ln., CBEIS 327F

Office: 443-885-1041

Cell: 443-377-0716

Email: [hyoenshic.shin@morgan.edu](mailto:hyoenshic.shin@morgan.edu)

February 15, 2014

**EDUCATION**

Ph.D., Public Policy Analysis, Urban Planning and Policy Program, College of Urban Planning and Public Affairs, University of Illinois at Chicago, 2005

Dissertation: "Study on Modeling Truck Trip Generation: Disaggregate Approach based on the Survey of Industry." Committee Chair, Dr. Kazuya Kawamura

M.A., Urban Planning, Department of Geography and Planning, University of Akron, Ohio, 2000

B.A., Public Administration, Department of Regional Development, Dankook University, Seoul, Korea, 1998

**PROFESSIONAL EXPERIENCE**

August 2010 – Present

Assistant Research Professor, National Transportation Center, Morgan State University, Baltimore, Maryland

May 2007 – August 2010

Research Scientist/Project Manager, The NYU Wagner Rudin Center for Transportation Policy & Management, Robert F. Wagner Graduate School of Public Service, New York University

August 2005 – April 2007

Postdoctoral Fellow, Connecticut Transportation Institute, Department of Civil and Environmental Engineering, University of Connecticut

August 2000 – August 2005

Research Assistant, Urban Transportation Center, College of Urban Planning and Public Affairs, University of Illinois at Chicago

January 1999 – August 2000

Research Assistant, Department of Planning and Geography, University of Akron, Ohio

**TEACHING***Courses*

Year	Course Name	University	Note
2011	Urban Land Use	Morgan State University	
2011	Geographic Information Systems	Morgan State University	
2010	Urban Land Use	Morgan State University	
2006	Decision Analysis in Civil and Environmental Engineering	University of Connecticut	
2005	Decision Analysis in Civil and Environmental Engineering	University of Connecticut	
2004	Urban Transportation I		Co-teaching
2003	Urban Transportation I		Co-teaching
2002	Urban Transportation I		Guest lecturer

*Other teaching*

- Highway Safety Manual – Korean Road Traffic Safety Authority, June 2013.
- Geographic Information System Applications to Transportation Safety Research – Korean Road Traffic Safety Authority, June 2013.

**PARTICIPATION IN GRANT AWARDED PROJECTS (in Various Roles)**

- **Principal Investigator**, *Developing Local Calibration Factors for Implementing the HSM in Maryland – Phase II, Freeway Application and Refinement*. Accepted for Funding by the Maryland State Highway Administration.
- **Principal Investigator**, *Multi-layered Integrated Urban Freight Delivery Network – Phase I: Identification of Policy Preferences based on Qualitative and Conjoint Analyses*. Accepted for Funding by the Research and Innovative Technology Administration of the U.S. Department of Transportation via the University of Maryland National Transportation Center.
- **Principal Investigator**, *Safety Analysis for the Prioritized Three Safety Improvement Locations on I495*. Sponsored by the Maryland State Highway Administration, Ongoing (until June 2014).
- **Principal Investigator**, *Measuring User Acceptance of and Willingness-to-pay for CVI Technology*. Sponsored by the Research and Innovative Technology Administration of the U.S. Department of Transportation via CVI-UTC at Virginia Tech, Ongoing (Until July 2014).  
Study summary: <http://www.cvi-utc.org/?q=node/126>
- **Principal Investigator**, *Research Product Transfer for Local Calibration Factors of the Highway Safety Manual and Integrated Surrogate Safety Assessment Framework*. Sponsored by the Research and Innovative Technology Administration of the U.S. Department of Transportation via Mid-Atlantic University Transportation Center at Pennsylvania State University, Ongoing (Until December 2014).  
Study summary: <http://www.mautc.psu.edu/projects/pipubinfo.aspx?id=MAUTC-2013-06>
- **Principal Investigator**, *Instructor Development Program Development*. Sponsored by the Federal Motor Carrier Safety Administration of the U.S. Department of Transportation. Ongoing (Until March 2014).  
Study summary: [http://www.morgan.edu/research\\_centers/national\\_transportation\\_center/research/new\\_projects/ntc\\_instructor\\_development\\_training\\_development\\_and\\_delivery.html](http://www.morgan.edu/research_centers/national_transportation_center/research/new_projects/ntc_instructor_development_training_development_and_delivery.html)
- **Co-Principal Investigator**, *Needs, Barriers, and Analysis Methods for Integrated Urban Freight Transportation*. Sponsored by Research and Innovative Technology Administration of the U.S. Department of Transportation via Mid-Atlantic University Transportation Center at Pennsylvania State University, Ongoing (Until August 2014).  
Study summary: <http://trid.trb.org/view.aspx?id=1235010>
- **Principal Investigator**, *Measuring Economic Contribution of Freight Industry to the Maryland Economy*. Sponsored by the Maryland State Highway Administration, Ending (February 2014).  
Study summary: <http://trid.trb.org/view.aspx?id=1246925>

- **Principal Investigator**, *The Development of Local Calibration Factors for Implementing the Highway Safety Manual in Maryland*. Sponsored by the Maryland State Highway Administration, January 2014.  
Study summary: <http://trid.trb.org/view.aspx?id=1246927>
- **Principal Investigator**, *Maryland Motor Carrier Program Performance Enhancement*. Sponsored by the Maryland State Highway Administration, February 2014.  
Study summary: <http://trid.trb.org/view.aspx?id=1246933>
- **Consultant**, *NCHRP 25: Freight Trip Generation and Land Use*. Sponsored by the National Cooperative Freight Research Program of Transportation Research Board, 2013.  
Study summary: <http://www.trb.org/Main/Blurbs/168396.aspx>
- **Co-Principal Investigator**, *Peer-to-peer Information Exchange on Bus Rapid Transit (BRT) and Bus Priority Best Practices*. Sponsored by the Federal Transit Administration of the U.S. Department of Transportation, 2012.
- **Principal Investigator**, *Urban Distribution Centers: A Means to Reducing Freight VMT*. Sponsored by New York Energy Research and Development Authority, 2011.  
Study summary: <http://www.ntis.gov/search/product.aspx?ABBR=PB2011109693>
- **Task Leader**, *Feasibility of Freight Villages in the NYMTC Region*. Sponsored by the New York Metropolitan Transportation Council, 2011.  
Study summary: [http://www.nymtc.org/project/freight\\_planning/freight\\_village.html](http://www.nymtc.org/project/freight_planning/freight_village.html)
- **Principal Investigator**, *Pedestrian Fatality and Severe Injury Crashes in New York City*. Sponsored by the New York City Department of Transportation, 2010.
- **Principal Investigator**, *Defining the Shared Goals of the NYMTC Principals and Related Future Trends*. Sponsored by the New York Metropolitan Transportation Council, 2010.
- **Task Leader**, *Integrative Freight Demand Management in the New York City Metropolitan Area*. Sponsored by the Pipeline and Hazardous Materials Safety Administration (PHMSA), the U.S. Department of Transportation, 2010.
- **Researcher**, *Strengthening Inter-jurisdictional Coordination on Transportation and Related Land Use in the NYMTC Regions*. Sponsored by the New York Metropolitan Transportation Council, 2009.
- **Lead Researcher**, *Development of an Optimal Nationwide Freight Planning Zone System*. Sponsored by New England University Transportation Center, 2009.
- **Lead Researcher**, *Design and Feasibility Study: Connecticut Transportation Planning Data*. Sponsored by Joint Highway Research Advisory Council, Connecticut Cooperative Highway Research Program, 2008.
- **GIS Programmer**, *Network-Based Highway Crash Prediction Using Geographic Information Systems*. Sponsored by New England Transportation Consortium, 2007.
- **Lead Researcher & Research Assistant**, *Business and Site Specific Trip Generation Methodology for Truck Trips*. Sponsored by Midwest Regional University Transportation Center (MRUTC), 2005.
- **Research Assistant**, *Knowledge Discovery and Data Mining in Civil Infrastructure*. Sponsored by National Science Foundation, 2003.
- **Research Assistant**, *Upper Midwest Freight Corridor Study*, Cooperative Study of Midwest Regional University Transportation Center (University of Wisconsin-Madison),

Urban Transportation Center (University of Illinois at Chicago), Intermodal Transportation Institute (University of Toledo), 2003.

- **Research Assistant**, *Study of 80,000-pound Limit on Rural Local Highways*. Sponsored by Illinois Department of Transportation, 2002.
- **Lead Researcher & Research Assistant**, *Public Private Partnership in Freight Transportation Planning*. Sponsored by the Metropolitan Transportation Support Initiative (METSI) at the Urban Transportation Center and Illinois Department of Transportation, 2002.

## WRITTEN REPORTS

Shin, H.S., S. Bapna, and I. Bonnaparte. *Measuring Economic Contribution of Freight Industry to the Maryland Economy*. Maryland State Highway Administration, forthcoming 2014.

Shin, H.S. Y.J. Lee, and S. Dadvar. *The Development of Local Calibration Factors for Implementing the Highway Safety Manual in Maryland*. Maryland State Highway Administration, 2014.

Shin, H.S., S. Bapna, and R. Buddharaju. *Maryland Motor Carrier Program Performance Enhancement*. Maryland State Highway Administration, 2014.

With Panero, M. *Peer-to-peer Information Exchange on Bus Rapid Transit (BRT) and Bus Priority Best Practices*. Federal Transit Administration of the U.S. Department of Transportation. 2012. [http://www.fta.dot.gov/documents/FTA\\_Report\\_No.\\_0009.pdf](http://www.fta.dot.gov/documents/FTA_Report_No._0009.pdf)

Shin, H.S., and M. Panero. *Urban Distribution Centers: A Means to Reducing Freight Vehicles Traveled*. New York State Department of Transportation. 2011. <https://www.nysdot.gov/divisions/engineering/technical-services/tran-r-and-d-repository/C-08-23.pdf>

With M. Roe. *The New York City Pedestrian Safety Study & Action Plan*. New York City Department of Transportation, 2010. <http://www.nyc.gov/html/dot/html/about/pedsafetyreport.shtml>

Shin, H.S. et al. *Defining the Shared Goals of the NYMTC Principals and Related Future Trends*, Report to New York Metropolitan Transportation Council, 2010. <http://www.utrc2.org/publications/defining-shared-goals-nymtc-principals-andrelated-future-trends>

With A. C. de Cerreño, A. Strauss-Wieder, S. Theofan. *Task 1 Report: Feasibility of Freight Villages in the NYMTC Region*, Report to New York Metropolitan Transportation Council, 2008. [http://www.nymtc.org/project/freight\\_planning/frtvillage/FrtVillage\\_files/Task%201%20Report%209-11-08FINAL.pdf](http://www.nymtc.org/project/freight_planning/frtvillage/FrtVillage_files/Task%201%20Report%209-11-08FINAL.pdf)

With Aultman-Hall, L. et al. *Design and Feasibility Study: Connecticut Transportation Planning*, Report to Joint Highway Research Advisory Council, Connecticut Cooperative Highway Research Program, 2008. [http://www.ct.gov/dot/LIB/dot/documents/dresearch/CT-JHR\\_08-315\\_JH\\_05-7.pdf](http://www.ct.gov/dot/LIB/dot/documents/dresearch/CT-JHR_08-315_JH_05-7.pdf)

- With Aultman-Hall, L. *Development of Nation-wide Freight Analysis Zones*, Report to New England University Transportation Center. 2009.  
[http://utc.mit.edu/uploads/files/UCNR17-6\(1\).pdf](http://utc.mit.edu/uploads/files/UCNR17-6(1).pdf)
- With Ivan, J. T. Jonsson, and S. Bindra. *Network-Based Highway Crash Prediction Using Geographic Information Systems*, Report to New England Transportation Consortium. 2007.  
[http://www.netc.umassd.edu/netcr\\_67\\_netc\\_04\\_5.pdf](http://www.netc.umassd.edu/netcr_67_netc_04_5.pdf)
- With Kawamura, K. S. McNeil and E. Ogard. *Business and Site Specific Trip Generation Methodology for Truck Trips*, Report to Midwest Regional Transportation Center, University of Wisconsin, Madison, August 30, 2005.  
[http://www.mrutc.org/research/0503/MRUTC\\_05-03\\_FR.pdf](http://www.mrutc.org/research/0503/MRUTC_05-03_FR.pdf)
- With McNeil, S., K. Kawamura, L. Dirks, G. Yanos and F. Ansari. *Study of 80,000-pound Limit on Rural Local Highways, Study Methodology and Results*, Report to Illinois Department of Transportation, January 31, 2002.

#### **PUBLICATIONS: PEER-REVIEWED JOURNAL**

- With Holguin-Veras et al. "Transferability of Freight Trip Generation Models." *The Transportation Research Record, Journal of the Transportation Research Board* 2379 (2013): 1–8.
- Shin, H.S., G. Chen, and G. Holisko. "Pedestrian Safety Programs in Centers of Large Cities: Institutional Settings and Identified Barriers." *The Transportation Research Record, Journal of the Transportation Research Board* 2264 (2011): 119–127.

#### **PEER-REVIEWED CONFERENCE PROCEEDINGS**

- With Farkas et al. "Women's Acceptance of and Willingness-to-pay for Connected Vehicles." *In the Proceedings of Women's Issues in Transportation, 5<sup>th</sup> International Conference on Women's Issues in Transportation – Bridging the Gap*, April 2014, Paris, France. Forthcoming.
- Shin, H.S. and Aultman-Hall, L. "Development of Nation-wide Freight Analysis Zones." In the *Proceedings of 86<sup>th</sup> Annual Transportation Research Board Meeting*, January 21–25, 2007, Washington, D.C.
- Shin, H.S. and Kawamura, K. "Business and Site Specific Truck Trip Generation." In the *Proceedings of National Freight Conference*, February 1–3, 2006, Long Beach, CA.
- Shin, H.S. and Kawamura, K. "Development of Disaggregate Level Truck Trip Generation Model: Case Study of Furniture Chain Stores." In the *Proceedings of 85<sup>th</sup> Annual Transportation Research Board Meeting*, January 22–26, 2006, Washington, D.C.
- Shin, H.S. and Kawamura, K. "Data Need for Truck Trip Generation Analysis: Qualitative Analysis of the Survey of Retail Stores." In the *Proceedings of Transport Chicago 2005*, June 3, 2005, Illinois Institute of Technology, Chicago, IL.
- Shin, H.S. and Kawamura, K. "Framework for the Disaggregate Truck Trip Generation Model based on the Survey of Retail Businesses." In the *Proceedings of 46<sup>th</sup> Annual Transportation Research Forum*, March 6–8, 2005, Washington, D.C.
- Shin, H.S. and J. Zhou. "Freight Transportation Planning and Education in USA – an Interview with Prof. Kazuya Kawamura." *Urban Planning International* 4, 2005.

Shin, H.S. and Kawamura, K. "Public Private Partnership in Regional Freight Planning: Implications for the Future," In the *Proceedings of 81th Annual Transportation Research Board Meeting*, January 13–17, 2002, Washington, D.C.

Shin, H.S. "Public Private Partnership in Intermodal Freight Transportation Planning," In the *Proceedings of Transport Chicago 2001*, May 2000, Chicago, IL.

#### **OTHER PUBLICATIONS**

With C. de Cerreño, A. "Pedestrian Safety in Large Central Cities: Identifying Potential High-Risk Groups – Work in Progress." *New York Transportation Journal* XII, 1 (2008): 11-13.

Shin, H.S., K. Kawamura, and E. Oggard. *Business and Site Specific Trip Generation Methodology for Truck Trips*. UTC Working Paper 2008-01 (2008).

Shin, H.S. "Delivering the Goods: The Freight Needs of a Growing Population." Symposium Summary, June 6, 2007, New York University, NY.

Shin, H.S. "Thinking Bigger: New York and Transportation in the Northeast Megaregion." Symposium Summary, November 13, 2007, New York University, NY.

#### **MANUSCRIPTS FOR SUBMISSION**

Shin, H.S., J.W. Yu, S. Dadvar, and Y.J. Lee. *Statistical Evaluation of Different Sample Sizes for Local Calibration Process in Highway Safety Manual*. To be submitted to Accident Analysis and Prevention in March 2014.

Shin, H.S., S. Dadvar, and Y.J. Lee. *Local Calibration Process of Highway Safety Manual for the State of Maryland*. To be submitted to Transportation Research: Part A in March 2014.

#### **PRESENTATIONS**

With Dadvar, S. et al. "Maryland Calibration Factor for Highway Safety Manual." *ITE Mid-Colonial District 2013 Annual Meeting*. Annapolis, MD, April 25, 2013.

Shin, H.S., S. Dadvar, Y.J. Lee, and R. Tao. "Impacts of Segment Length and Different Sampling Strategies on Local Calibration Factors for the Highway Safety Manual." *92th Transportation Research Board Annual Meeting*. January, 2013.

Shin, H.S., et al. "Impacts of Segment Length and Different Sampling Strategies on Local Calibration Factors for the Highway Safety Manual." *2013 Transportation Research Board Annual Meeting*. 2013

With Holguin-Veras et al. "Transferability Of Freight Trip Generation Models" *2013 Transportation Research Board Annual Meeting*. 2013

Shin, H.S. "Pedestrian Safety Programs in Large Central Cities: Institutional Settings and Identified Barriers." *90<sup>th</sup> Annual Transportation Research Board Meeting*, 2011, Washington, D.C.

With Polo, D. and Panero, M. "Taxonomy of Urban Distribution Centers - International Experience and Applicability to the U.S." *51<sup>st</sup> Annual Transportation Research Forum*, March 11-13, 2010, Washington, D.C.

Shin, H.S. et al. "Fatal and Severe Pedestrian Crashes in New York City." Presentation to the New York City Department of Transportation, December 9, 2009.

Shin, H.S. and C. de Cerreño. "Pedestrian Safety and Potential High Risk Groups in Large Central Cities: Issues, Tools, and Policy." *FHWA Pedestrian Safety Focus States/Cities Webconference*, June 17, 2008.

Shin, H.S. and Aultman-Hall, L. "Development of Nation-wide Freight Analysis Zones." *86<sup>th</sup> Annual Transportation Research Board Meeting*, January 21–25, 2007, Washington, D.C.

Shin, H.S. and Kawamura, K. "Business and Site Specific Truck Trip Generation." *National Freight Conference*, February 1–3, 2006, Long Beach, CA.

Shin, H.S. and Kawamura, K. "Development of Disaggregate Level Truck Trip Generation Model: Case Study of Furniture Chain Stores." *85th Annual Transportation Research Board Meeting*, January 22–26, 2006, Washington, D.C.

Shin, H.S. and Kawamura, K. "The Comparison of Different Truck Trip Generation Techniques at the Disaggregate Level: A Case Study of Retail Stores." *46th Annual Conference of the Association of Collegiate Schools of Planning*, October 27–30, 2005, Kansas City, MO.

## PROFESSIONAL ACTIVITIES

### *Outreach: Presentation and Moderation at Workshop/Stakeholder Meetings*

- Stakeholder Meeting: Urban Freight Delivery Systems, June 18, 2013
- Pedestrian Safety in Large Central Cities: Peer-to-peer workshop, Sponsored by the Federal Highway Administration of the U.S. Department of Transportation, September 2010

### *Invited Presentations*

- Economic Impacts of Freight Industry to Maryland Economy. To the Freight Regional Oversight Group, Baltimore Metropolitan Council, December 2012
- Maryland Motor Carrier Program Performance Enhancement. To the Interagency Coordinating Group Meeting, Maryland Department of Transportation, November 2012

### *Government, Professional, and Academic Committees*

- Maryland Freight Stakeholders Advisory Committee
- Summer Transportation Institute Committee, National Transportation Center, Morgan State University
- Teachers Transportation Institute Committee, National Transportation Center, Morgan State University
- National Association of City Transportation Officials, 2007-2009
- Pedestrian Safety Research Subcommittee, Transportation Research Board, 2009-2010
- New York Transportation Journal Editorial Board, 2007-2010.

### *Paper Reviews*

- Urban Freight Transportation Committee, Transportation Research Board
- Freight Transportation Data Committee, Transportation Research Board
- Taxation and Finance Committee, Transportation Research Board
- Pedestrian Committee, Transportation Research Board
- 2005 Transport Chicago



**AWARDS**

- Faculty recognition award for achievement, April 18, 2012, Morgan State University
- 2<sup>nd</sup> place for Student Paper Competition, Transport Chicago, 2005