

## *Academic Resume*

**Venkataraman (Venky) N. Shankar, PhD, PE**  
Registered as Civil Engineer in the State of Washington  
U.S. Citizen, Married

### **Academic Preparation**

Ph.D.	University of Washington, Seattle	1997
M.S.C.E.	University of Washington, Seattle	1990
B.Tech.	Indian Institute of Technology, Madras	1988

### **Professional History**

Professor and Chair, Department of Civil, Environmental and Construction Engineering, Texas Tech University, August 2017-  
Adjunct Professor, Department of Civil and Environmental Engineering, Pennsylvania State University, July 2017-  
Professor, Department of Civil and Environmental Engineering, Pennsylvania State University, July 2013-June 2017.  
Director, Transportation Econometrics Lab, Department of Civil and Environmental Engineering, Pennsylvania State University, August 2004-July 2017.  
Faculty Collaborator, Joint International Research Laboratory for Transportation Safety, Tongji University, 2017-  
Graduate Faculty, Operations Research Program, College of Engineering, Pennsylvania State University, July 2007-July 2017.  
Visiting Research Engineer, Institute of Transportation Studies, University of California at Berkeley, July 2013-July 2017.  
Visiting Scholar, Department of Civil and Environmental Engineering, University of California at Berkeley, July 2011-June 2012.  
Associate Professor, Department of Civil and Environmental Engineering, Pennsylvania State University, August 2004-June 2013.  
Faculty Affiliate, Protective Technology Center, Pennsylvania State University, 2010-2015.  
Affiliate Faculty, Department of Civil and Environmental Engineering, University of Washington, Seattle, August 2004-June 2007.  
Assistant Professor, Department of Civil and Environmental Engineering, University of Washington, Seattle, September 1999-August 2004.  
Affiliate Assistant Professor, Interdisciplinary PhD Program in Urban Planning, University of Washington, Seattle, September 2002-August 2004.  
Safety Program Research Manager, Washington State Department of Transportation, Olympia, August 1996-August 1999.  
Transportation Engineering Consultant, Division Manager and Principal, Seattle, WA, September 1989-July 1996.  
Graduate Research Assistant, University of Washington, Seattle, September 1993-July 1996, September 1988-August 1989.

**Refereed Journal Articles** (names in bold indicate students and postdocs supervised via thesis work, thesis committee role and research collaborations)

1. **Seraneeprakrn P., Huang S., Venkataraman N., Shankar V., Milton J., and Mannering F.** "Occupant injury severities in hybrid-vehicle involved crashes: A random parameters approach with heterogeneity in means and variances," *Analytic Methods in Accident Research*, 2017. <https://doi.org/10.1016/j.amar.2017.05.003>

2. **Al-Mohtafar G.**, Yamamoto T. and Shankar V. “A Negative Binomial Crash Sum Model for Time Invariant Heterogeneity in Panel Crash Data: Some Insights,” Analytic Methods in Accident Research, Vol.14, 1-9, 2017.
3. Anastasopoulos P., **Sarwar T.**, and Shankar V. “Safety-Oriented Pavement Performance Thresholds: Accounting for Unobserved Heterogeneity in a Multi-Objective Optimization and Goal Programming Approach,” Analytic Methods in Accident Research, Volume 12, 35-47, 2016.
4. Mannering F., Shankar V., and Bhat C. “Unobserved Heterogeneity and the Statistical Analysis of Highway Accident Data,” Analytic Methods in Accident Research, Volume 11, 1-16, 2016.
5. **Venkataraman N.**, Shankar V., Blum J., **Hariharan B.**, and **Hong J.** “Transferability Analysis of Heterogeneous Overdispersion Parameter Negative Binomial Safety Performance Functions: A Case Study from California,” Transportation Research Record, Journal of the Transportation Research Board, DOI: 10.3141/2583-13, 2016.
6. **Hong J.**, Shankar V., and **Venkataraman N.** “A Spatially Autoregressive and Heteroskedastic Space-Time Pedestrian Exposure Modeling Framework with Spatial Lags and Endogenous Network Topologies,” Analytic Methods in Accident Research, Volume 10, 26-46, 2016.
7. **Al-Mohtafar G.**, Yamamoto T., and Shankar V. “Evaluating crash type covariances and roadway geometric marginal effects using the multivariate Poisson gamma mixture model,” Analytic Methods in Accident Research, Volume 9, pp 16-26, 2016.
8. **Madireddy M.**, Kumara S., Medeiros D. and Shankar V. “Leveraging Social Networks for Evacuation,” Transportation Research Part B, Volume 77, Issue C, pp 199-212, 2015.
9. **Venkataraman N.**, Shankar V., Ulfarsson G. and **Deptuch D.** “Modeling the Effects of Interchange Configuration on Heterogeneous Influences of Interstate Geometrics on Crash Frequencies,” Analytic Methods in Accident Research, 2014.
10. **Venkataraman N.**, Ulfarsson G. and Shankar V. “Extending the Highway Safety Manual Framework for Traffic Safety Performance Function Evaluation,” Safety Science, 2014.
11. **Venkataraman N.**, Ulfarsson G. and Shankar V. “Random Parameter Models of Interstate Crash Frequencies by Severity, Number of Vehicles Involved, Collision and Location Type,” Accident Analysis and Prevention, Vol 59, pp 309-318, 2013.
12. **Ye X.**, Pendyala R., Shankar V. and Konduri K. “A Simultaneous Equations Model of Crash Frequency by Severity Level for Freeway Sections,” Accident Analysis and Prevention, Vol 57, pp 140-149, 2013.
13. Kim J., Ulfarsson G., Kim S. and Shankar V. “Driver-Injury Severity in Single-Vehicle Accidents in California: A Mixed Logit Model Analysis of Heterogeneity Due to Age and Gender,” Accident Analysis and Prevention, pp. 1073-1081, 2013.
14. Anastasopoulos, P., Shankar, V., Haddock, J. and Mannering, F. “A Multivariate Tobit Analysis of Highway Accident Rates,” Accident Analysis and Prevention, Vol. 45, pp 110-119, 2012.
15. Anastasopoulos, P., Mannering, F., Shankar, V. and Haddock, J. “A Study of Factors Affecting Highway Accident Rates Using the Random-Parameters Tobit Model,” Accident Analysis and Prevention, Vol. 45, pp 628-633, 2012.
16. **Venkataraman N.S.**, Ulfarsson G., Shankar V., **Oh J.** and **Park M.** “Modeling Relationship Between Interstate Crash Occurrence and Geometrics: Exploratory Insights from Random

- Parameter Negative Binomial Approach,” Transportation Research Record, Journal of the Transportation Research Board, Vol. 2236, pp 41-48, 2011.
17. Jovanis P., Valverde J., **Wu K.**, Gross F. and Shankar V. “Naturalistic Driving Event Data Analysis: Omitted Variable Bias and Multilevel Modeling Approaches,” Transportation Research Record, Journal of the Transportation Research Board,” Vol. 1506, 49-57, 2011.
  18. Donnell E., **Porter R.** and Shankar V. “A Framework for Estimating the Safety Effects of Roadway Lighting at Intersections,” Safety Science, Vol. 48, pp 1436-1444, 2010.
  19. **Kim J.**, Ulfarsson F., Shankar V., Mannering F. “A Note on Modeling Pedestrian Injury Severity in Motor-Vehicle Crashes with the Mixed Logit Model,” Accident Analysis and Prevention, Vol. 42, Issue 6, pp 1751-1758, 2010..
  20. **Sittikariya S.** and Shankar V.N. “Critical Modeling Issues in Transportation Safety Programming: Comprehensive View from Academia and Practitioners,” Journal of the Asian Transportation Society, Vol.1. pp 39-45, 2009.
  21. Mathur S., Shankar V.N. and **Sittikariya S.** “Factors Affecting Jurisdictions’ Choice of Assessing Impact Fees,” ASCE Journal of Urban Planning and Development, Vol. 135, No. 3, pp 110-115, 2009.
  22. Yamamoto T., Hashiji J. and Shankar V.N. “Analysis of Underreporting in Traffic Accident Data and the Structure of Injury Severity Models,” Accident Analysis and Prevention, Vol. 40, Issue 4, pp 1320-1329, 2008.
  23. **Kim J.H.T.**, Ulfarsson G.F., Shankar V.N. and Waddell P. “Modeling Micro-Spatial Employment Location Patterns: A Comparison of Count and Choice Approaches,” Geographical Analysis, International Journal of Theoretical Geography, Vol. 40, Issue 2, pp 123-151, 2008.
  24. Ulfarsson, G. F. and V. N. Shankar. “Children's Travel to School: Discrete Choice Modeling of Correlated Motorized and Non-Motorized Transportation Modes using Covariance Heterogeneity,” Environment and Planning B, Vol. 35, Issue 2, pp 195-206, 2008
  25. **Sathyanarayanan S.**, Shankar V.N. and Donnell E.T. “A Weibull Analysis of Pavement Marking Retroreflectivity Data,” Transportation Research Record, Journal of the Transportation Research Board, Vol. 2055, pp 63-70, 2008.
  26. Shankar V.N., Jovanis P.P., **Aguero J.** and **Gross F.** “Analysis of Naturalistic Driving Data: A Prospective View on Methodological Paradigms,” Transportation Research Record, Journal of the Transportation Research Board, Vol. 2061, pp 1-8, 2008.
  27. **Milton J.**, Shankar V.N. and Mannering F.L. “Highway Accident Severities and the Mixed Logit Model: An Exploratory Empirical Analysis,” Accident Analysis and Prevention, Vol. 40, Issue 1, pp 260-266, 2008.
  28. Milton J.C., Shankar V.N., **Shyu M.B.**, **Sittikariya S.** and Pendyala R.M. “A Data-Driven Perspective on the Management of Safety Risk at State Agencies: A Washington State Case Study,” Transportation Research Record, Journal of the Transportation Research Board, Vol. 2083, pp 1-8, 2008.
  29. **Kim J.**, Gudmundur F. Ulfarsson, Shankar V., and Kim S. “Age and Pedestrian Injury Severity in Motor-Vehicle Crashes: A Heteroskedastic Logit Analysis,” Accident Analysis and Prevention, Vol. 40, Issue 5, pp 1695-1702, 2008.
  30. Shankar V.N., **Sittikariya S.** and **Shyu M.B.** “Some Insights on Roadway Infrastructure Design for Safe Elderly Travel,” International Association of Traffic Safety Sciences Research, Volume 40, Number 1, pp 21-26, 2006.

31. **Vu P.**, Shankar V.N. and **Ulfarsson G.F.** “Is Access Management Good for Business? Business Perceptions of the Effects of Traffic Access Management on Accessibility and Patronage,” Transportation Planning and Technology, Vol. 21, pp. 273-293, 2006.
32. **Ulfarsson G.F.**, Shankar V.N. and **Vu P.J.** “The Effect of Variable Message Signs on the Relationship between Mean Speeds and Speed Deviations,” International Journal of Vehicle Information and Communication Systems, Vol 1. Nos.1/2, pp 69-87, 2005.
33. **Khorashadi A.M.**, Niemeier D.A., Shankar V.N. and Mannering F.L. “Differences in Driver Injury Severity in Rural Versus Urban Truck-Involved Crashes,” Accident Analysis and Prevention, Volume 37, Issue 5, pp 910-921, 2005..
34. **Holdridge J.**, Shankar V.N. and Ulfarsson G.F. “The Crash Severity Impacts of Fixed Roadside Objects,” Journal of Safety Research, Volume 36, Issue 2, pp 139-147, 2005.
35. **Sittikariya S.**, Shankar V.N., **Shyu M.B.** and **Chayanan S.** “Accounting for Serial Correlation in Traffic Accident Models,” Journal of the East Asia Society for Transportation Studies, Vol. 6, pp 3645-3657, 2005.
36. **Rosen D.M.**, Shankar V.N. and Ulfarsson G.F. “The Relationship Between Shopping Travel Time and Activity Duration and Spatial Census Tract-Level and Transportation Network Factors,” Transportation Research Record, Journal of the Transportation Research Board, 2004.
37. Yamamoto T. and Shankar V.N. “Bivariate Ordered-Response Probit Model of Driver’s and Passenger’s Injury Severities in Collision with Fixed Objects,” Volume 36, Issue 5, pp 869-876, Accident Analysis and Prevention, 2004.
38. Shankar V.N., **Chayanan S.**, **Sittikariya S.**, **Shyu M.B.**, and **Milton J.C.** “The Marginal Impacts of Design, Traffic, Weather and Related Interactions on Roadside Crashes,” Transportation Research Record, Journal of the Transportation Research Board, 2004.
39. Shankar V.N., **Ulfarsson G.F.**, Pendyala R.M. and **Nebergall M.B.** “On the Modeling of Crashes Involving Pedestrians and Motorized Traffic.” Safety Science, Volume 41, Issue 7, pp 627-640, 2003.
40. **Ulfarsson G.F.** and Shankar V.N. “An Accident Count Model Based on Multi-Year Cross-Sectional Roadway Data with Serial Correlation,” Transportation Research Record 1840, pp 193-197, Journal of the Transportation Research Board, 2003.
41. **Ouyang Y.F.**, Shankar V.N. and Yamamoto T. “Modeling the Simultaneity in Injury Causation in Multi-Vehicle Collisions,” Transportation Research Record 1784, pp 143-152, Journal of the Transportation Research Board, 2002.
42. Pendyala R.M., Shankar V.N. and McCulloch R.G. “Freight Travel Demand Modeling: A Synthesis of Approaches and Development of a Framework.” Transportation Research Record 1725, pp 9-16, Journal of the Transportation Research Board, 2000.
43. Shankar V.N., Albin D.B., Milton J.C. and Nebergall M.B. “In-Service Performance-Based Roadside Design Policy: Preliminary Insights from Washington State’s Bridge Rail Study.” Transportation Research Record 1720, 72-79, Journal of the Transportation Research Board, 2000.
44. Shankar V.N., Albin R.B., Milton J.C. and Mannering F.L. “Evaluating Median Cross-Over Likelihoods with Clustered Accident Counts: An Empirical Inquiry Using the Random Effects Negative Binomial Model.” Transportation Research Record 1635, pp 44-48, Journal of the Transportation Research Board, 1998.

45. Shankar V.N. and Mannering, F.L. "Modeling the Endogeneity between Lane-Mean-Speed and Speed Deviation: A Structural Equations Approach." Transportation Research Part A, Vol. 32 (5): pp. 311-322, 1998.
46. Shankar V.N., Milton J.C. and Mannering, F.L. "Modeling Accident Frequencies as Zero-Altered Probability Processes: An Empirical Inquiry," Accident Analysis and Prevention, Vol. 29 (6): pp. 829-837, 1997.
47. Shankar V.N. and Mannering F.L. "An Exploratory Multinomial Logit Analysis of Single-Vehicle Motorcycle Accident Severity." Journal of Safety Research Vol.27 (3):183-194, 1996.
48. Shankar V.N., Mannering F.L., and Barfield W. "Statistical Analysis of Rural Freeway Accident Severity." Accident Analysis and Prevention Vol.28 (3): 391-401, 1996.
49. Shankar V.N., Mannering F.L., and Barfield W. "Effect of Roadway Geometrics and Environmental Conditions on Rural Accident Frequencies." Accident Analysis and Prevention Vol.27 (3): 371-389, 1995.

#### **Refereed Parts of Books**

1. **Juvva** N.K., Shankar V.N. and **Chayanan** S. "Endogeneity and Identification in Transportation Systems: Econometric Relationships to Partial Observability," System Identification 2003, Edited by PMJ Van den Hof, B Wahlberg and S Weiland, Volume (3), Pages 1197-1202, Elsevier 2004.
2. V.N. Shankar and R.M. Pendyala. In "Travel Behavior Research: The Leading Edge." Freight Travel Demand Modeling: Econometric Issues in Multi-Level Approaches, Chapter 38, pp 629-645, Hensher D. and King J (eds), Pergamon Press, Oxford, 2001.

#### **Book Reviews**

1. Integrated Land-Use and Transportation Models - Behavioural Foundations, edited by Martin-Lee-Gosselin and Sean Doherty, Transportation Journal, Spring 2006.

#### **Citations of Published Work**

Published work has been cited 2,012 times, ISI Web of Science, and 2,277 times using Scopus, 4,231 times in Google Scholar, 2,829 times in Researchgate

Citations per paper in Scopus indexed articles: 48.44

Twelve top 1% journal articles in Accident Analysis and Prevention, Journal of Safety Research and Transportation Research Record

Seven top 5% journal articles in Accident Analysis and Prevention, Safety Science and Transportation Research Record

#### **Awards and Recognitions**

Penn State Engineering Alumni Society Outstanding Advising Award, College of Engineering, 2013

Department of Civil Engineering Sesquicentennial Lecture, Washington University, St. Louis Sesquicentennial Celebrations, 2004

Nagoya and Kobe Universities, Faculty Fellow Lectures, Japan Foundation for Science, 2004

National Science Foundation New Century Scholar, 2000

Washington State DOT Research Award, 1998

Best graduate student research paper prize, the Institute of Transportation Engineers, Washington, 1994

Runner-up, Daniel Mead ethics in civil engineering paper prize, American Society of Civil Engineers, Washington, 1992

#### **Current Editorial Board Appointments**

Review Editor, *Frontiers in Transportation and Transit Systems*  
Associate Editor, *Analytical Methods in Accident Research*, Elsevier Science  
Associate Editor, *International Journal of Microsimulation*  
Editorial Board, *Transportation Research – Methodological, Part B*  
Editorial Advisory Board, *Accident Analysis and Prevention*  
Editorial Review Board, *International Journal of Applied Logistics*

### **Current Appointments on National Research Committees**

Transportation Research Board Committee ANB25, Committee on Highway Safety Performance, US National Research Council, paper awards subcommittee (member).  
Transportation Research Board Committee ANB20, Committee on Safety Data Analysis and Evaluation, US National Research Council.

### **Record of Funded Research**

2002-2002, Economic impacts of access management, Washington State Department of Transportation, PI, \$60,000.

2000-2002, Interaction between the roadway and the roadside, Washington State Department of Transportation, PI, \$60,000.

2002, Predicting pavement serviceability indices for statewide pavement management systems, Washington State Department of Transportation, PI, \$25,000.

2002, Evaluation of TravelAid Impacts on Freeway Safety and Operations, Washington State Department of Transportation and Federal Highway Administration, Co-PI, \$450,000).

2002-2004, Analysis of Median Crossover Crashes and Effectiveness of Concrete Barriers, Washington State Department of Transportation and Federal Highway Administration, PI, \$85,000.

2002-2004, An Evaluation of Data Requirements for High Accident Corridor and Location Assessment, Washington State Department of Transportation and Federal Highway Administration, PI, \$42,256.

2004-2005, An Assessment of Ranking Methods for High-Accident Corridors and Locations, Washington State Department of Transportation and Federal Highway Administration, PI, \$47,944.

2005-2008, Effects of Roadway Lighting on Safety, National Cooperative Highway Research Programs, National Research Council, Co-investigator, \$800,000.

2007-2008, Development of Safety Models for Pennsylvania Highways, PennDOT, Co-investigator, \$150,000.

2007-2008, An Assessment of Interstate Safety Prioritization Needs in Washington State, Washington State Department of Transportation and Federal Highway Administration, PI, \$175,000.

2006-2010, Analysis of Naturalistic Driving Data, Strategic Highway Research Program, National Research Council, Co-investigator, \$300,000.

2006-2010, Performance Based Analysis of Geometric Design of Highways and Streets, National Cooperative Highway Research Programs, National Research Council, PI, \$600,000.

2011-2013, Security under WMD Threats, Defense Threat Reduction Agency (Basic Research RFP), Department of the Military, (multi-PI), 1.35 million.

Sep 2013 – June 2014, WSDOT, Park and Ride Lot Efficiency Analysis, Co-Investigator, \$148,000.

Nov 2011 – June 2016, Task 1: Nov 2011- Dec 2015, WSDOT, Two-Lane Rural Roads Safety Performance Evaluation and Federal Highway Administration, PI, \$299,000.

Dec 2012 – June 2016, Task 2: Dec 2012- Dec 2015, WSDOT, Urban and Suburban Arterial Safety Performance Functions Federal Highway Administration, PI, \$203,000.

Feb 2013 - Feb 2015, Caltrans, Alternative Methods for Identifying High Collision Corridors for Identifying Safety Improvements, PI, \$249,864.

Aug 2014 – June 2016, Caltrans, Advanced Safety Performance Functions and Alternative Methods for Identifying High Collision Corridors, PI, \$146,700.

July 2016 – Dec 2017, Task 3: Safety implementation of advanced models, WSDOT, Co-PI, \$236,000.

July 2016 – Dec 2016, Penn State Seed Grant: High Performance Computing for Network Traffic Safety, Co-PI, \$25,000 in direct costs.

September 2015 – September 2017, Caltrans, Data Needs for Implementation of advanced type 2 SPFs for safety prioritization, Caltrans, Co-PI, \$300,000.

Caltrans, Implementation of advanced type 2 SPFs for safety prioritization, Caltrans, Co-PI, \$500,000.

### **Invited Talks and Seminars (65+)**

Universities: UC Berkeley, Purdue, Buffalo, Illinois, U-Washington, Penn State, Washington University, UC-Davis, Virginia Tech, Arizona State, Temple, Illinois Institute of Technology, Iowa State, Nebraska, Alaska-Fairbanks, Vermont, Minnesota, Kansas, Georgia Tech, South Florida, Texas Tech, George Mason, Nagoya, Kobe, University of Iceland; Government Panels: Washington State DOT, Caltrans, National Research Council, DC

### Professional Practice Workshop Organization

Benefit-cost analysis and decision-making in transportation, WSDOT Design Academy

Statistical techniques in traffic engineering and accident analysis, WSDOT Design Academy

### **External Service**

WSDOT Biennium Research Proposal Statements

National Cooperative Highway Research Program (NCHRP) Project Panels and Proposal Statements

External Review Member, Highway Safety Manual Task Force on Chapter Development, Transportation Research Board

Senior Technical Advisor, SHRP Project on Roadway Lighting, National Academy of Sciences

Ad Hoc Member, Highway Safety Issues Group, WSDOT

WSDOT roadside design policy panel on guidelines for design clear zone in urban environments

WSDOT Steering Committee on economic initiatives and partnership development

WSDOT Steering Committee on roadside safety management

WSDOT Steering Committee on statewide safety project programming

WSDOT Steering Committee on modern roundabouts

WSDOT Steering Committee on pedestrian safety

### University Research Proposal Reviews

UC Berkeley Transportation Center; Nexttrans, Purdue University; Integrating Research into the Teaching Environment (I-RITE) Research, Stanford University; New England University Transportation Centers; Transportation Northwest/PacTrans, University of Washington

### National Research Council, National Academy of Sciences Activities

Doctoral Program Research Rankings Evaluator, Invited Faculty Participant, Industrial and Systems Engineering Programs

### External University Academic Reviews

External promotion and tenure reviews, University of Illinois, Chicago; Auburn; University of Central Florida; Indian Institute of Science

## US Citizenship and Immigrations Services

Exceptional researcher advisory opinions for three individuals (two university faculty and two industry applicants)

### **Consulting**

Expert Witness, Townsend versus Shoreline, King County, Washington

Center for Urban Policy Research, Rutgers University

### **Resident Instruction (Penn State)**

UG: Transportation Planning (Senior), Introduction to Traffic Impact Analysis (Senior), Highway Design (Capstone), Introduction to Highway Engineering, Instructor rating average: 6.35/7.0, Course rating average: 6.02)

Grad: Applied Bayesian Statistics, Analysis of Travel Demand, Transportation Networks, Advanced Econometric Models in Transportation, Traffic Data Applications and Modeling, Conceptual Systems Approaches in Transportation Modeling, Advanced Travel Analysis Methods. Instructor rating average: 6.48/7.0, Course rating average: 6.08)

### **Resident Instruction (University of Washington, Seattle)**

UG: Introduction to Transportation Engineering (Junior), Highway Design (Capstone), Civil Engineering Seminar (Junior). Teaching rating average of four survey questions (course as a whole, course content, instructor's contribution, and instruction effectiveness): 3.56/5

Grad: Transportation Networks, Transportation Econometrics, Advanced Econometric Models in Transportation, Pavement Systems Management (co-taught). Teaching rating average of four survey questions (course as a whole, course content, instructor's contribution, and instruction effectiveness): 3.92/5

### **Postdoctoral (Visitors and Advisees)**

Barad Hariharan, Penn State

Jungyeol Hong, Penn State

Minho Park, Penn State

Ida van Schalkwyk, Visiting Scholar, WSDOT Traffic Operations

Emine Coruh, Visiting Scholar, Gumushane University, Turkey

Narayan Venkataraman, Postdoctoral Scholar, University of Iceland and Penn State

Daniel Kwon, Postdoctoral Scholar, Penn State

Gudmundur Ulfarsson, Professor, University of Iceland

Toshiyuki Yamamoto, Professor, Nagoya University

Said Sikder, Postdoctoral Associate, Penn State

### **PhD Advisees appointments**

Barad Hariharan, Post Doc, PSU

Jungyeol Hong, Research Professor, University of Seoul

Daniel Kwon, Civil Engineer, Army Corps of Engineers

Minho Park, Research Fellow, Incheon Development Institute

Junseok Oh, CTO and Director, DO-IT Lab, BizCare Company, Seoul

Sudhakar Sathyanarayan, Strategic Informatics Senior Analyst, Cigna Health Insurance

John Milton, Director of Quality Assurance and Safety Research, WSDOT

Sittipan Sittikariya, Senior Transportation Engineer, Seattle DOT

Ming-Bang Shyu, Senior Transportation Demand Modeler, Urban Planning Office, WSDOT

Songrit Chayanan, Director of Samut Sakohn Highway District, Thailand Department of Highways

### **Graduate and Undergraduate Honors Advisees (graduation year in parentheses)**

**PhD:** Seraneeprakarn (current), Huang (current), Jihyun Jo (IE Phd, Co-advisor, current), Hariharan (2015), Hong (2015), ElBanhawy (PhD student, 2014, Northumbria), Kwon (2013),



Chen (2013, until proposal defense), Park (2013), Oh (2010), Sathyanarayanan (2007), Milton (2006), Sittikariya (2006), Shyu (2006), Chayanan (2005)

**MSCE:** Huang (2015), Shin (2012), Sirandas (2012), Kwon (2009), Sharma (2007), Oh (2006), Hermansson (2005), Rosen (2003), Holdridge (2002), Vu (2002), Nebergall (2001), Ouyang (2001)

**MENG:** Patil (2005), Coffland (2002), Arora (2002)

**BS (Honors):** deMorais (2010)

**Penn State Multi-Campus Research Experience for Undergraduates (REU) Students:** Hall, Cercone, and Riojas, PSU Harrisburg, Co-advised with Jeremy Blum, PSU Harrisburg CS

**International UG visiting scholars:** Agnimitra Sengupta, Jadavpur University, Bose Visiting Scholarship

### Membership on graduate degree committees

#### Penn State degree committees

Chabra (Civil)	Ph.D.	Na (Industrial)	Ph.D.
Hwang (Industrial)	Ph.D.	Guo (Industrial)	M.S.I.E
Meimand (Industrial)	Ph.D.	He (Civil)	M.S.C.E.
Madireddy (Industrial)	Ph.D.	Chen (Civil)	M.S.C.E.
Rigdon, (Industrial)	Ph.D.	Gabay	M.S.C.E.
Mukherjee (Industrial)	Ph.D.	Himes (Civil)	M.S.C.E.
Porter (Civil)	Ph.D.	Hu (Civil)	M.S.C.E./Ph.D.
Frazier (Geography)	Ph.D.	Stoddart (Civil)	M.S.C.E.
Cruzado (Civil)	Ph.D.	Aguero (Civil)	M.S.C.E./Ph.D.
Chung (Industrial)	Ph.D.	Cancel (Geography)	M.A.
Gross (Civil)	Ph.D.	Gemar (Civil)	M.S.C.E.
Sikder (Civil)	Ph.D.	Pescatori (L. Arch.)	M.A.
Kweon (Industrial)	Ph.D.	Gao (Industrial)	M.S.

#### External PhD committees

Van Schalkwyk, Ariz. State (Civil)	Ph.D.	Kim, Wash U. (Civil)	Ph.D.
Kim, U. Wash (Planning)	Ph.D.	Whitehead, QUT	Ph.D.

#### Committee member as faculty at University of Washington, Seattle

Khorashadi, UC-Davis (Civil)	Ph.D.	Nicholas (Civil)	M.S.C.E.
Mathur (Urban Planning)	Ph.D.	Willoughby (Civil)	M.S.C.E.
Kim (Urban Planning)	Ph.D.	Thompson (Civil)	M.S.C.E.
Shafizadeh (Civil)	Ph.D.	Ulfarsson (Civil)	Ph.D.
Gatica-Perez (Electrical)	Ph.D.	Pedersen (Mechanical)	Ph.D.
Han (Electrical)	Ph.D.	Novosellov (Mechanical)	Ph.D.
Kasturirangan, USF (Civil)	M.S.C.E.		