

# Curriculum Vitae

## Personal Data



**James Elliott Moore, II, Professor**

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**Date of Birth:**  
September 15, 1958

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**Office and Mailing Address:**  
Epstein Department of Industrial and Systems  
Engineering

**Place of Birth:**  
Newport, Rhode Island

Andrus Center (GER), Suite 240, MC-0193  
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University of Southern California  
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United States

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## Research Interests

Spatial economic impact analysis. Risk management of transportation networks subject to terrorist attack and to seismic, tsunamic, and other natural hazards. Network performance and control. Large scale computational models of metropolitan land use/transport systems, especially in California. Evaluation of new transportation technologies. Infrastructure investment and pricing policies.

## Education

**9/83- 8/86**

Doctor of Philosophy, Program in Infrastructure Planning and Management, Department of Civil and Environmental Engineering, Stanford University.

**Dissertation**

"Linearized, Optimally Configured Urban System (LOCUS) Models: A Dynamic Mills Heritage Model With Replaceable Capital."

**9/82- 8/83**

Master of Urban and Regional Planning, McCormick School of Applied Science and Engineering (formerly the Technological Institute), Northwestern University.

**9/81- 6/82**

Master of Science, Industrial Engineering, Department of Management Science and Engineering (formerly the Department of Industrial Engineering and Engineering Management), Stanford University.

**9/76- 6/81**

Bachelor of Science in Industrial Engineering (Operations Research), Department of Industrial Engineering and Management Science, Northwestern University.

Bachelor of Science, Urban and Regional Planning, McCormick School of Applied Science and Engineering (formerly the Technological Institute), Northwestern University.

Cooperative Engineering Education Certificate (Illinois).

**6/76**

Diploma, New Bremen Local High School, New Bremen, Ohio, in Auglaize County.

The seat of Auglaize County is Wapakoneta, birthplace of astronaut Neil Armstrong, the first human to set foot on the moon. Settled by German immigrants in 1833, New Bremen is Lock 1 North on the 249-mile Miami and Erie Canal, northern boundary of the 24-mile wide Loramie Plateau, 374 feet above Lake Erie at Toledo, and 516 feet

## Education (Continued)

above the Ohio River at Cincinnati. Located one mile north of the Saint Lawrence River Continental Divide, at the terminal moraine of the Wisconsinan Glaciation, the town is the southern-most point of the 519,000 square mile St. Lawrence River Basin and headwaters of the St. Mary's River; which combines with the St. Joseph River at Fort Wayne, Indiana to form the Maumee River, the southern-most tributary of any of the Great Lakes. The Maumee River's 8,316 square-mile watershed is the largest of any Great Lakes river, supplying 5 percent of Lake Erie's inflow; and once included the 1,500 square-mile Great Black Swamp, the southern tip of which was adjacent to New Bremen. Drained in the 19<sup>th</sup> century to enable agriculture, the Great Black Swamp was a modern remnant of Glacial Lake Maumee, the Holocene epoch proglacial ancestor of Lake Erie.

## Academic Employment

### University of Southern California, Los Angeles, California

8/19-	present	<u>Professor</u> of Industrial and Systems Engineering (75%), of Public Policy (25%), -and- of Civil Engineering (courtesy).
8/15-	8/19	<u>Professor</u> of Industrial and Systems Engineering (75%), of Urban Planning and Spatial Analysis (25%), of Civil Engineering (courtesy), -and- of Public Policy and Real Estate Development (courtesy).
7/04-	8/15	<u>Professor</u> of Industrial and Systems Engineering (75%), of Public Policy and Management (25%), -and- of Civil Engineering (courtesy).
7/03-	6/04	<u>Professor</u> of Industrial and Systems Engineering (50%), of Public Policy and Management (50%), -and- of Civil Engineering (courtesy).
5/02-	6/03	<u>Professor</u> of Civil Engineering (50%) -and- of Public Policy and Management (50%).
7/98-	4/02	<u>Associate Professor</u> of Civil Engineering (50%) -and- of Public Policy and Management (50%).
7/97-	6/98	<u>Associate Professor</u> of Urban and Regional Planning (50%) -and- of Civil Engineering (50%).
7/93-	6/97	<u>Associate Professor</u> of Urban and Regional Planning (75%) -and- of Civil Engineering (25%).
7/88-	6/93	<u>Assistant Professor</u> of Urban and Regional Planning (75%) -and- of Civil Engineering (25%).
7/88-	6/98	<u>Lecturer</u> in Industrial and Systems Engineering.

### Northwestern University, Evanston, Illinois

7/87-	12/87	<u>Assistant Professor</u> of Civil and Environmental Engineering.
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## Visiting Positions

**Southern California Association of Governments**, federally designated Metropolitan Planning Organization, Los Angeles, California.

9/17-	8/18	<u>Visiting Scholar</u> , Transportation Planning, and Land Use & Environmental Planning Departments.
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### RAND Corporation, Santa Monica, California

7/10-	8/11	<u>Visiting Scholar</u> , Transportation, Space, & Technology; Operations Research.
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## Visiting Positions (Continued)

- California State Library**, Sacramento, California
- 1/98- 8/99      Distinguished Visiting Scholar, California Research Bureau, Transportation Legislation and Policy Group.
- University of Southern California**, Los Angeles, California
- 1/88- 6/88      Visiting Assistant Professor of Urban and Regional Planning -and- of Industrial and Systems Engineering.
- Northwestern University**, Evanston, Illinois
- 9/86- 6/87      Visiting Assistant Professor of Civil and Environmental Engineering.  
Lecturer in Industrial Engineering and Management Science.

## Administrative Positions

- University of Southern California**, Los Angeles, California
- 7/11- 6/17      Vice Dean for Academic Programs, Viterbi School of Engineering.  
Dean's designee in charge of academic programs at all levels across all departments and programs, including graduate, undergraduate, and joint curricula; WASC accreditation of all programs and ABET accreditation of all undergraduate programs; and active learning and related pedagogic initiatives.
- 5/04- 7/10      Chair, Daniel J. Epstein Department of Industrial and Systems Engineering.  
Academic and nonacademic personnel, student affairs, space, academic programs in industrial engineering, systems engineering, operations research, engineering management, manufacturing engineering, and product development engineering at all levels, including graduate, undergraduate, and joint curricula; ABET accreditation of industrial and systems engineering programs.
- 8/95- 7/15      Resident Faculty and Senior Tutor, USC Honors House Residence (2710 Severance St., Los Angeles).
- 8/89- 7/94      Faculty in Residence, USC Greek Honors House (729 W. 28<sup>th</sup> St., Los Angeles).  
Live-in faculty advisor, advocate, counselor, guide and coach serving *in loco parentis* for sophomores and upperclassmen and -women living in undergraduate student residence halls organized as small residential colleges. Responsible on a day-to-day basis for all academic matters, student welfare, and pastoral care in coordination with the Division of Student Affairs; Housing, Dining, and Transportation Services; and the Department of Public Safety.

## Administrative Service and Stipend Positions

- 9/90- present      Director, Graduate Program in Transportation Engineering, Sonny Astani Department of Civil and Environmental Engineering.
- 7/13- 6/19      Director Graduate Program in Systems Architecting and Engineering, Viterbi School of Engineering.
- 9/97- 12/02      Associate Chair for Computing and Curriculum, Sonny Astani Department of Civil and Environmental Engineering.
- 7/94- 6/96      Assistant Dean for Computing and New Program Development, School of Urban Planning and Development (now the Sol Price School of Public Policy).
- 5/94- 10/10      Co-Director, Construction Management Program, Sonny Astani Department of Civil and Environmental Engineering, and the Price School of Public Policy.

## Administrative Service and Stipend Positions (Continued)

### California State Library, Sacramento, California

2/99- 4/03 Director of Research Development, California State Library Foundation.

### Northwestern University, Evanston, Illinois

9/86- 1/88 Area Coordinator, Urban and Regional Planning Program, Department of Civil and Environmental Engineering and the Council on Urban and Regional Planning.

## Volunteer Leadership in Professional Societies

4/16- 3/17 Immediate Past President, Board of Trustees, Institute of Industrial and Systems Engineers (IISE, formerly IIE)

4/15- 3/16 President, Board of Trustees, Institute of Industrial Engineers (IIE, now IISE)

4/14- 3/15 President-Elect and Chief Financial Officer, Board of Trustees, IIE

4/09- 3/12 Senior Vice President – Continuing Education, Board of Trustees, IIE

1/17- present Board Member, California Transportation Foundation (CTF)

1/10- 12/15

1/10- 12/10 Immediate Past President, TSL

1/09- 12/09 President, Transportation Science and Logistics Society (TSL), Institute for Operations Research and the Management Sciences (INFORMS)

1/08- 12/08 Vice President, TSL

5/09- 5/10 Immediate Past President, CIEADH

5/08- 5/09 President, Council of Industrial Engineering Academic Dept Heads (CIEADH)

5/07- 5/08 Secretary, CIEADH

1/05- present Board Member-at-Large, WTS Los Angeles (WTS-LA)

## Research Affiliations

### University Consortia

1/06- present Council of Engineering Systems Universities (CESUN).

5/98- 6/12 National Center for Metropolitan Transportation Research (METRANS).  
Executive Committee.

5/98- 9/03 Associate Director.

9/97- present Pacific Earthquake Engineering Research Center (PEER).

9/97- 12/99 Education Committee.

1/98- 12/02 Institute for Civil Infrastructure Systems (ICIS).  
Executive Committee.

9/95- 12/2K Center for the Commercial Deployment of Transportation Technology (CCDoTT).

### University of Southern California

8/19- present Fellow, Center for Sustainability Solutions (CSS).

2/06- 5/10 Center for Systems and Software Engineering (CSSE).

11/03- present Center for Risk and Economic Analysis of Terrorism Events (CREATE).

11/03 9/10 Economics Committee.

7/99- 5/04 Lusk Center for Real Estate (LCRE).

## Research Affiliations (Continued)

1/88-	6/98	The Lusk Center Research Institute (LCRI).
7/98-	5/04	Institute for Civic Enterprise (ICE).
4/92-	12/95	Center for Research on Environmental Science, Policy, and Engineering (CRESPE).
4/91-	present	Center for Advanced Transportation Technologies (CATT).
5/93-	5/98	Co-Director.

### San Jose State University

7/2K-	present	Norman Y. Mineta Transportation Institute (MTI, formerly the International Institute for Surface Transportation Policy Studies).
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### California State Library

2/99-	4/03	California State Library Foundation
1/98-	9/99	California Research Bureau (CRB)

### Northwestern University

1/87-	1/88	Senior Research Fellow, The Northwestern-Council for Urban Economic Development Institute (NCI).
1/87-	1/88	Center for Urban Affairs and Policy Research (CUAPR).
9/86-	1/88	Council for Urban and Regional Planning, McCormick School of Engineering and Applied Science (formerly The Technological Institute).

## Honors and Awards

### Service

3/16	"Special Award for Outstanding Service as President," Institute of Industrial and Systems Engineers Board of Trustees.
11/15	"Honorable Ray LaHood Award," WTS (formerly the Women's Transportation Seminar), Los Angeles Chapter.
11/13	"Member of the Year," WTS, Los Angeles Chapter.
4/06	Chilingar Medal, Russian Academy of Natural Sciences, United States Section.
4/05	"Distinguished Faculty Service Award," for dedicated and exemplary service to the faculty and greater USC Community, University of Southern California Academic Senate.
4/03	Dean's Award for Service to the University of Southern California Viterbi School of Engineering.

### Teaching and Education

5/12	"Faculty Member of the Year, 2011-12," USC Division of Student Affairs Office of Residential Education.
9/11	"Faculty Award for Service to the International Student Community," USC Division of Student Affairs Office of International Services.
2/08	"Distinguished Engineering Educator Award," Los Angeles Council of Engineers and Scientists (LACES), nominated by the Los Angeles Chapter of the Institute of Industrial Engineers.
	"Pioneer Educator Award," Orange County Engineering Council (OCEC), nominated by the Orange County Chapter of the Institute of Industrial Engineers.

## Honors and Awards (Continued)

- 1/05 "Diversity Leadership Award," inaugural recipient, WTS (formerly the Women's Transportation Seminar), Los Angeles Chapter.
- 10/04 Crown and Eagle Medal of Honor, Russian Academy of Natural Sciences, United States Section.
- 4/04 "Teaching Has No Boundaries Award," University of Southern California Academic Culture Initiative.
- 2/04, 2/05 Sam. M Walton Free Enterprise Fellow, 2004 and 2005.
- 5/04 "Outstanding Faculty Fellow, 2003-04," USC Division of Student Affairs, University Residential Student Community (URSC).

## Research

- 1/04 Elected to the Russian Academy of Natural Sciences, United States Section, for out-standing contributions to the field of Transportation Systems Engineering.
- 1/04 Kapitsa Gold Medal of Honor.
- 7/03 Awarded tenure, Daniel J. Epstein Department of Industrial and Systems Engineering, University of Southern California (USC).
- 4/97 Awarded tenure, Sonny Astani Department of Civil and Environmental Engineering, USC.
- 4/93 Awarded tenure, Sol Price School of Public Policy, USC.

## Scholarship

- 6/91  $\Sigma\Xi$  (Sigma Xi) Scientific Research Honorary, USC Chapter.
- 4/88  $\Omega P$  (Omega Rho) Operations Research Honorary, USC Chapter.
- 8/87 Eugene P. Wigner Fellowship, Transportation Research Section, Oak Ridge National Laboratory (declined).
- 1/80, 1/82 TBPI (Tau Beta Pi), Illinois  $\Gamma$  Chapter, California  $\Gamma$  Chapter.

## Sponsored Research Projects

### Research Centers

6.

5. (with Genevieve Giuliano-PI, Petros Ioannou, and Maged Dessouky) "MOU Between the California Department of Transportation and the University of Southern California for Cooperation of Transportation Research." Matching funds provided by the California Department of Transportation (Caltrans) up to \$5,223,000.

2007-2012 \$3,583,000 (maximum allowed match for federal funds)

2006 \$ 860,000

2005 \$ 780,000

This is the USC portion of a multi-year consortium effort also involving Dean Michael Mahoney, Anastasios Chassiakos, Joe Magaddino, and Mary Anne Venieris of California State University at Long Beach, and totaling up to \$4,640,000 in State matching funds.

4. (with Genevieve Giuliano-PI, Randolph Hall, and Petros Ioannou) "MOU Between the California Department of Transportation and the University of Southern California for Cooperation of Transportation Research." Matching funds provided by the California Department of Transportation (Caltrans).

1998-2005 \$3,285,200

This is the USC portion of a multi-year consortium effort also involving Dean Michael Mahoney, Dan Barber, Joe Magaddino, and Mary Anne Venieris of California State University at Long Beach, and totaling \$2,000,000 in State matching funds.

3. (with Genevieve Giuliano-PI, Petros Ioannou, and Maged Dessouky) "METRANS National Center for Metropolitan Research." Funded by the U.S. Department of Transportation under the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users. Funding for a Tier 1 University Transportation Research Center up to \$5,223,000.

2007-2012 \$3,583,000 (federal funds)

2006 \$ 860,000

2005 \$ 780,000

This is the USC portion of a multi-year consortium effort also involving Dean Michael Mahoney, Anastasios Chassiakos, Joe Magaddino, and Mary Anne Venieris of California State University at Long Beach, and totaling up to \$4,640,000 in Federal funds.

2. (with Genevieve Giuliano-PI, Randolph Hall, and Petros Ioannou) "METRANS National Center for Metropolitan Research." Funded by the U.S. Department of Transportation under the Transportation Equity Act for the 21<sup>st</sup> Century.

1998-2005 \$3,905,000

This is the USC portion of a multi-year consortium effort also involving Dean Michael Mahoney, Dan Barber, Joe Magaddino, and Mary Anne Venieris of California State University at Long Beach, and totaling \$7,810,00 in federal funds.

1. (with Joe Devinny, Jennifer Wolch, Sheldon Kamieniecki, Theo Tsois, A. Michaels, Thomas Henye, Linwood Pendleton, Laura Pulido, Masanobu Shinozuka, and Naj Meshkati) "Integrative Graduate Education and Research Training (IGERT): Urban Environmental Sustainability -- A Multidisciplinary Doctoral Education Program." Funded by the National Science Foundation (NSF) Division of Graduate Education, 1998-2003. \$2,700,000.

## Research Projects

66. (with Thomas A. Rubin) "A Critical Review of Los Angeles Metro's 28 by 2028 Plan," funded by the Reason Foundation: Los Angeles, 2019, \$30,000.

65. (with Jiyoung Park as a consultant) "The Environmental and Economic Impacts of Moorage Marinas on the West Coast," Funded by Seagrant, 2014-2019, \$149,886.

64. (with Maged Dessouky, Najmedin Meshkati, Greg Placencia, Ubli Mitra, and Petros Ioannou) "Technical and Safety Evaluation of the Southern California Regional Rail Authority Positive Train Control Deployment Project," funded by the Federal Transit Administration (FTA), 2011-2017, \$979,864 (includes an \$80,000 cost extension in 2015).

63. (with Richard Callahan-PI) "Transportation Education Development Pilot Program (TEDPP)" Subcontract to California State University Long Beach (CSULB), funded by the Federal Highway Administration (FHWA), 2008, \$226,887.

2012 \$ 7,824 (Year 5)

2011 \$62,590 (Year 4)

2010 \$62,590 (Year 3)

2009 \$62,590 (Year 2)

2008 \$31,295 (Year 1)

62. (with Maged Dessouky-PI, Alejandro Toriello; and Jiyoung Park and Qisheng Pan as consultants), "Evaluation of Transportation Practices in the California Cut Flower Industry," Funded by the California Cut Flower Commission, 2011, \$100,000.

61. (as a faculty associate with Genevieve Giuliano-PI) "Assessment Support for the San Jose ATN: California Automate Transit Network (ATN) Research Collaboration." Funded by The Aerospace Corporation, 2011, \$86,000.

60. (with Peter Gordon-PI and Harry Richardson; and Jiyoung Park and Qisheng Pan as consultants) "Freight Shipments, Greenhouse Gases and Polluting Emissions: Implications for California and the US." Funded by the National Center for Metropolitan Transportation Research (METRANS), 2010, Project 11-03, \$89,312.

59. (with Peter Gordon-PI and Harry Richardson, and Qisheng Pan as a consultant) "Towards Peak Pricing in Metropolitan Areas: Modeling Network and Activity Impacts." Funded by the National Center for Metropolitan Transportation Research (METRANS), 2009, Project 10-03, \$90,000.

58. (with Adam Rose, Peter Gordon, and Harry Richardson; and Jiyoung Park as consultants) "2009 Influenza A H1N1 Pandemic, Response to: REFP 35399 Task 4" Funded by the Department of Homeland Security through Pacific Northwest National Laboratory (PNNL), 2009, \$25,000.

57. (with Peter Gordon and Harry Richardson) "Economic and Societal Impact Modeling," Funded by the Department of Homeland Security through the Center for Risk and Economic Analysis of Terrorism Events (CREATE).

2009 \$143,673 (Year 6)

2008 \$168,660 (Year 5)

2007 \$213,682 (Year 4)

Funded by the Department of Homeland Security through the Office of Naval Research and the Center for Risk and Economic Analysis of Terrorism Events (CREATE).

2006 \$288,452 (Year 3)

2005 \$282,796 (Year 2)

2004 \$232,000 (Year 1)



## **Sponsored Research (Continued)**

- 56.** (with J.P. Bardet-PI and Petros Ioannou; and Stu Werner, Sungbin Cho, and Jiyong Park as consultants) "Risks and Recoveries from Extreme Disruptions in Freight Transportation System in a Megacity: Case Study for the Greater Los Angeles Area." Funded by the National Center for Metropolitan Transportation Research (METRANS), 2008, Project 09-29, \$90,000.
- 55.** (with Adam Rose-PI, Peter Gordon-PI and Harry W. Richardson) "Advances in Modeling Economic Resilience." Funded by the Battelle Pacific Northwest National Laboratory for the Department of Homeland Security Integrated National Centers (INC) Program, 2007-2008, \$100,000 (Full award 2008-2010, \$750,000, also with Kerry Smith, Carol Mansfield, Joshua Epstein, Bruce McCarl, Hamid Mohtadi, and Robert Greenbaum).
- 54.** (with Peter Gordon-PI and Harry W. Richardson) "Macroeconomic Analysis of a Shutdown of the US Border to Goods, Travel, and Migration." Funded by the Battelle Pacific Northwest National Laboratory, 2007, \$50,000.
- 53.** (as a faculty associate with Detlof von Winterfeldt-PI, Adam Rose, Peter Gordon, Harry W. Richardson, and Bumsoo Lee) "Support for Risk and Economic Analysis for the National Biodefense Analysis and Countermeasures Center (NBACC)." Funded by the Battelle National Biodefense Institute for the Department of Homeland Security, 2007, \$650,000.
- 52.** (with Peter Gordon-PI, and Harry W. Richardson) "Study of Western Riverside County Multiple Species Habitat Conservation Plan." Subcontract to the Rand Corporation, 2006, \$100,000.
- 51.** (with Harry W. Richardson-PI, and Peter Gordon) "Adding A Freight Network to an Interstate Input – Output Model: Implications for California." Funded by the National Center for Metropolitan Transportation Research (METRANS), 2006, Project 07-19, \$89,000.
- 50.** (with Yueyue Fan of UC Davis) "Transportation Network Decision Heuristics for Mitigation Prior to a Large Metropolitan Earthquake." Funded by the National Science Foundation (NSF) and the California Department of Transportation (Caltrans) through the Pacific Earthquake Engineering Research Center (PEER) consortium, headquartered at the University of California, Berkeley, 2004, \$72,000 USC, \$127,000 total.
- 49.** (with Harry W. Richardson-PI, and Peter Gordon) "What can we Learn from CTPP 2000? Neighborhood Attributes, Commuting Behavior and Jobs-Housing Balance: A Comparative 1990-2000 Study Across California's Major Metropolitan Areas." Funded by the National Center for Metropolitan Transportation Research (METRANS), 2004, Project 04-13, \$75,000.
- 48.** (with Le Dam Hanh) "Landside Surface Transportation Impact of Short Sea Shipping in Southern California," Funded by the California Department of Transportation through the National Center for Metropolitan Research (METRANS), 2004, Project 04-04, \$75,000.
- 47.** (with Yueyue Fan of UC Davis) "Quantifying Economic Losses from Travel Foregone Following a Large Metropolitan Earthquake." Funded by the National Science Foundation (NSF) and the California Department of Transportation (Caltrans) through the Pacific Earthquake Engineering Research Center (PEER) consortium, headquartered at the University of California, Berkeley, 2004, \$52,000 USC, \$70,000 total.
- 46.** "Improved Modeling of Network Transportation Flows, Including Land Use – Transportation Interactions: A Research Collaboration Between USC (METRANS) and Caltrans District 7 (Office of Advance Planning)." Funded by the California Department of Transportation through the National Center for Metropolitan Research (METRANS), 2003, Project 03-23, \$90,000.
- 45.** (with Peter Gordon and Harry W. Richardson) "Neighborhood Attributes and Commuting Behavior: Transit Choice." Funded by the California Department of Transportation through the National Center for Metropolitan Research (METRANS), 2003, Project 03-20, \$90,000.

## **Sponsored Research (Continued)**

**44.** (with Peter Gordon and Harry W. Richardson) "Measuring California's Role in Supporting Interstate Goods Movement: Comprehensive Assessment of Interstate Freight Flows." Funded by the California Department of Transportation through the National Center for Metropolitan Research (METRANS), 2003, Project 03-19, \$90,000.

**43.** "Technical Support for the Caltrans REDARS Demonstration Project." Funded by the California Department of Transportation. \$6,000. This is part of a collaborative project with Stuart Werner of Seismic Systems and Engineering Consultants, Craig Taylor of Natural Hazards Management, Inc., Prof. M. Shinozuka of UC Irvine, and others.

2005 \$13,448

2004 \$26,113

2003 \$25,353

**42.** (with Peter Gordon, Harry W. Richardson, and John Kuprenas) "An Economic Impact Evaluation of Proposed Storm Water Treatment for Los Angeles County." Funded by a consortium of 55 cities in the Los Angeles Area, City of Bellflower acting as fiscal agent, 2002, \$100,000.

**41.** "Seismic Hazard Simulation of Bay Area Highway Network Transportation Analysis." This is a continuation of the multi year project "Seismic Risk Model for a Designated Highway System," funded by the National Science Foundation (NSF) and the California Department of Transportation (Caltrans) through the Pacific Earthquake Engineering Research Center (PEER) consortium, headquartered at the University of California, Berkeley, 2002, \$70,000 (California Department of Transportation)

**40.** (with M. Shinozuka, W. Petak, and D. Von Winterfeld) "Institute for Civil Infrastructure Systems (ICIS)." Funded by the National Science Foundation (NSF) through the Institute for Civil Infrastructure Systems (ICIS) consortium, headquartered at New York University.

2002 \$51,000

2001 \$80,000

2000 \$80,000

1999 \$80,000

1998 \$80,000

This is the USC portion of a multi-year consortium effort also New York University, Cornell University, and Polytechnic University, and totaling \$5,000,000.

(with Peter Gordon, Harry W. Richardson, and Christopher Williams) "The Economic Effects of Highway Widening: Tolled Lanes vs. General Purpose Lanes – Using an Integrated Impact Model," Funded by the National Center for Metropolitan Transportation Research (METRANS), 2001, Project 01-14, \$100,000.

**39.** "Seismic Risk Model for a Designated Highway System." Funded by the National Science Foundation (NSF) and the California Department of Transportation (Caltrans) through the Pacific Earthquake Engineering Research Center (PEER) consortium, headquartered at the University of California, Berkeley. [http://peer.berkeley.edu/yr4\\_research/ta1/1041999b.html](http://peer.berkeley.edu/yr4_research/ta1/1041999b.html)

2001 \$44,998 (NSF)

2000 \$29,985 (Caltrans)

1999 \$49,962 (NSF)

1998 \$49,982 (Caltrans)

This is the USC portion of a multi-year consortium effort involving Anne Kiremidjian, Samuel Chi, and Stephanie King of Stanford University, and totaling \$536,000 in a combination of NSF and Caltrans funds.

## **Sponsored Research (Continued)**

**38.** (with Randolph Hall-PI, Genevieve Giuliano, Petros Ioannou, and Elliot Axelband) "METTRANS National Center for Metropolitan Research." Funded by the U.S. Department of Transportation under the Transportation Equity Act for the 21<sup>st</sup> Century. This is the USC portion of a multi-year consortium effort also involving Dean J. Richard Williams, Dan Barber, Rod Grimm, Forrest Harding, and Mary Anne Venieris of California State University at Long Beach, and totaling \$1,460,000 in federal funds between 1998 and 2001 (\$1,600,000 authorized).

**37.** (with Randolph Hall-PI, Genevieve Giuliano, Petros Ioannou, and Elliot Axelband) "MOU Between the California Department of Transportation and the University of Southern California for Cooperation of Transportation Research." Matching funds provided by the California State Legislature through the California Department of Transportation (Caltrans). This is the USC portion of a multi-year consortium effort also involving J. Richard Williams, Dan Barber, Rod Grimm, Forrest Harding, and Mary Anne Venieris of California State University at Long Beach, and totaling \$1,460,000 in State matching funds between 1998 and 2001.

**36.** (with Peter Gordon, Harry Richardson, and Chris Williamson) "Preparation of an Economic Impact Assessment." Funded by the I-5 Consortium Cities Joint Powers Authority, 2001. \$125,000. This project was begun and then placed on hold pending Caltrans changes to the I-5 Corridor Improvement Project. Only partial funds have been disbursed.

**35.** (with Peter Gordon, Harry Richardson, and Costas Synolakis) "Natural Disasters and California: Who are the Most Likely Victims?" Funded by the University of Southern California through the Zumberge Research Innovation Fund, 2000. \$40,000.

**34.** (with Peter Gordon, and Harry Richardson) "State of the Art Report: Regional Economic Models." Funded by the California Department of Transportation (Caltrans) through the Pacific Earthquake Engineering Research Center (PEER), headquartered at the University of California, Berkeley, 2000. \$20,000.

**33.** (with Peter Gordon, and Harry Richardson) "Economic Engineering Integrated Models of Earthquake Risk Mitigation Strategies." Funded by the National Science Foundation (NSF) and the California Department of Transportation (Caltrans) through the Pacific Earthquake Engineering Research Center (PEER), headquartered at the University of California, Berkeley.

2000 \$50,000 (California Department of Transportation)

1999 \$64,900 (Caltrans)

1998 \$75,000 (National Science Foundation)

This is the USC portion of a multi-year consortium effort involving Alfredo Ang of the University of California, Irvine, and totaling \$250,000.

**32.** (with Peter Gordon, Harry Richardson, and Stephanie Chang, in collaboration with Norio Okada, Hiroyuki Kameda, N. Nojima, and H. Tatano) "Earthquake Disaster Mitigation for Urban Transportation Systems: An Integrated Methodology that Builds on the Kobe and Northridge Experiences." Award 9812503 funded by the National Science Foundation (NSF), Division of Civil and Mechanical Systems, Earthquake Hazard Mitigation Program.

2000 \$80,866

1999 \$78,334

1998 \$76,132

This is the USC portion of a multi-year consortium effort also involving Stephanie E. Chang of Washington University in collaboration with Norio Okada, Hiroyuki Kameda, N. Nojima, and H. Tatano of Kyoto University, and totaling \$386,144 in US funds.

**31.** (with Robert Poole) "Improving Ground Access to the Los Angeles International Airport." Funded by Los Angeles World Airports and the Reason Foundation, 2000. \$37,000.

**30.** (with Genevieve Giuliano) "Metro Freeway Service Patrol Impact on Freeway Accidents." Funded by the Los Angeles County Metropolitan Transportation Authority (MTA), 1999. \$76,984.

## **Sponsored Research (Continued)**

29. "Seismic Vulnerability of the Highway System, Year 1." A subcontract with Seismic Systems and Engineering Consultants under the Multidisciplinary Center for Earthquake Engineering Research (MCEER) response to DOT Solicitation Number DTFH61-98-R-00094, 1999. \$11,200.
28. "System Analysis Procedures for Seismic Risk Analysis of Highway Transportation Systems," A subcontract with Seismic Systems and Engineering Consultants under Task 106 E-7.3.1 of the Multidisciplinary Center for Earthquake Engineering Research (MCEER) Highway Project.  
1999 \$ 7,200 Federal Highway Administration)  
1998 \$15,000 (FHWA)  
1997 \$13,000 (FHWA)  
1996 \$ 8,000 (FHWA)
27. "University of Southern California/California State University Cooperative Agreement with Respect to the Services of James Moore." Funded by the California State Library, 1998. \$40,000.
26. (with Masanobu Shinozuka, Peter Gordon, Harry Richardson) "The Socio-Economic Impacts of the Big One." Funded by the Southern California Studies Center, 1998. \$23,448.
25. (with Joe Deviny, Jennifer Wolch, Sheldon Kamieniecki, Theo Tsotis, A. Michaels, Thomas Henye, Linwood Pendleton, Laura Pulido, Masanobu Shinozuka, and Naj Meshkati) "Creating Sustainable Urban Environments for the 21<sup>st</sup> Century: A Program for Stimulating Interdisciplinary Environmental Research in Sciences, Policy and Engineering." Funded by the University of Southern California through the Southern California Studies Center, 1998. \$24,986.
24. (with Genevieve Giuliano) "Evaluation of the San Gabriel Valley Smart Shuttle Field Operational Test." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), MOU 340, 1998-2000. \$319,507.
23. (as a Senior Investigator, with M.S. Agbabian, S.F. Masri, M. Shinozuka, and approximately 10 others) "Development, Evaluation, Implementation, of Standards for Seismic Mitigation Measures for Nonstructural
22. Components in Hospitals and Critical Care Facilities." Funded by the Federal Emergency Management Agency (FEMA), Hazard Mitigation Grant Program, 1997. \$3,989,142.
21. (with JC Park) "Synthesis of Analytical Practice in Major Investment Planning (Management Information Systems)." Eisenhower fellowship funded by the Federal Highway Administration (FHWA), 1997. \$ 38,337.
20. (with Genevieve Giuliano) "Public Transportation Services in Low Income Communities: A Case Study." Funded by the Federal Transit Administration (FTA), 1997. \$30,000.
19. "Holiday Incident and Accident Duration Data Collected in to Support the Partnership for Advanced Transit and Highway's Evaluation of the Los Angeles Freeway Service Patrol." Funded by the Los Angeles County Metropolitan Transportation Authority (MTA), 1997. \$12,665.
18. (with Tom Rubin) "Transit Paper Series Project." A subcontract with the Reason Foundation to undertake research funded by the James Irvine Foundation, 1996. \$25,000.
17. (with Randolph Hall) "Use of Los Angeles Freeway Service Patrol Vehicles as Probe Vehicles." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), MOUs 282 and 347, 1996. \$99,999.
16. (with Gen Giuliano) "Evaluation of Project ATHENA." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), MOU 260, 1996. \$149,000.
15. "Developing an Evaluation Plan for the Los Angeles Freeway Service Patrol." Funded by the Los Angeles County Metropolitan Transportation Authority (MTA), 1996. \$32,190.

## **Sponsored Research (Continued)**

14. (with Masanobu Shinozuka, William Petak, and Peter Gordon) "Effect of Earthquakes on Urban Highway Infrastructure Productivity." Award 9633386 funded by the National Science Foundation (NSF), Division of Civil and Mechanical Systems, Earthquake Hazards Mitigation Program, 1996. \$399,388.
13. (with Gen Giuliano) "Evaluation of (Phase III of) the Caltrans Automated Transit Pass / SMART Card Demonstration (User and System Impacts)." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), MOU 65V313-7, 1995. \$184,267.
12. (with Gen Giuliano) "Evaluation of (Phase II of) the Caltrans Automated Transit Pass / SMART Card Demonstration (User and System Impacts)." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), 1994. \$ 60,000.
11. "Evaluation of the Anaheim Advanced Traffic Control System, a Federal Highway Administration Intelligent Vehicle Highway System Field Operational Test." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), MOU 65V313-4, 1993. \$49,061.
10. "Evaluation of the Irvine Integrated Traffic Control System, a Federal Highway Administration Intelligent Vehicle Highway System Field Operational Test." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), MOU 65V313-5, 1993. \$83,645.
9. "Evaluating System ATGIS Technologies via Rapid Estimation of Network Flows." Funded by the California Department of Transportation (Caltrans) through the Partnership for Advanced Transit and Highways (PATH), MOUs 120 and 212, 1993. \$99,891.
8. "Rapid Estimation of Transportation System Performance Under Congestion Tolls." Funded by the University of Southern California through the James H. Zumberge Faculty Research and Innovation Fund, 1993. \$10,000.
7. "Extending the South Coast Air Quality Management District's Regional Clean Air Incentives Market (RECLAIM) to Include Nonstationary Sources of Pollution." Funded by the John Randolph Haynes and Dora Haynes Foundation, Los Angeles, 1993. \$8,000.
6. (as a Faculty Associate with Jennifer Wolch, Michael Dear, and William Baer) "A Geographic Model of Homelessness." Funded by the National Science Foundation (NSF), Geography and Regional Science Program, 1990.
5. "A Stochastic Process Model of Filtering in the Housing Market: An Improved Predictive Procedure." Funded by the John Randolph Haynes and Dora Haynes Foundation, Los Angeles, 1989. \$ 8,000.
4. National Science Foundation (NSF) Travel Grant to attend the 2nd International Conference for Comparative Human Settlements, Shanghai, PRC (conference cancelled due to political unrest); and the 11th Meetings of the Pacific Regional Science Association, Singapore, 1989.
3. (with Alex Anas and Richard Arnott) "A Comprehensive Housing Land Use Model for Evaluating Housing Rehabilitation Programs." Funded by the U.S. Department of Housing and Urban Development (HUD), 1987. \$135,000.
2. National Science Foundation (NSF) Travel Grant to attend the 1st International Conference for Planning Human Settlements, Shanghai, PRC; and the 10th Meetings of the Pacific Regional Science Association, Pusan, ROK, 1987.
1. "Extending Linearized, Optimally Configured Urban Systems Models." Funded by the National Center for Supercomputing Applications, Urbana, IL; and the National Science Foundation, 1986.

## Refereed Publications (sole author, principal author, co-author, author, or editor)

### Web Book

1. *A Critical Review of Los Angeles Metro's 28 by 2028 Plan*, Thomas A. Rubin and James E. Moore, II, Reason Foundation: Los Angeles, 2019. <https://reason.org/commentary/los-angeles-metro-28-by-2028-plan/>  
Chapter 1: "Introduction, Overview, and the Birth of Transit in Los Angeles."  
Chapter 2: "The Rise of the Los Angeles County Metropolitan Transportation Authority (Metro)."  
Chapter 3 "Metro's Transit Ridership Is Declining."  
Chapter 4: "Metro's Long Range Plans Overpromise and Underdeliver."  
Chapter 5A: "Improving Bus Service and Reducing Fares Have Greatly Increased Transit Use in Los Angeles Three Times."  
Chapter 5B: "Why Has Metro Been Losing Ridership Since 2007? What Can It Do to Reverse This Trend?"  
Chapter 6: "Labor/Community Strategy Center v. Los Angeles County Metropolitan Transportation Authority."  
Chapter 7: "Metro Consistently Significantly Overstates Sales Tax Revenues."  
Chapter 8: "Metro Has Frequently Understated Transportation Project Costs."  
Chapter 9: "Metro's Congestion Pricing Revenue Pricing Estimates Are Not Credible."  
Chapter 10: "Metro's Public-Private Partnership Revenue Estimates Are Not Credible."  
Chapter 11: "Metro Will Not Have the Revenue or the Debt Capacity to Undertake Many of the Proposed 28 Projects."  
Chapter 12: "Metro's 28 by 2028 Plans and Proposals Are Built on Many Questionable Assumptions and Errors."  
Chapter 13: "Metro Has a History of Evading Legal Requirements, Potentially Ignoring the Law."  
Chapter 14: "Metro's Congestion Eradication and Fare-less Transit Proposals Are Unrealistic."  
Chapter 15: "Bus Is Very Productive and Cost Effective, Rail Is Not, But Metro Favors Rail Over Bus."

### Edited Books

6. *Regional Economic Impacts of Terrorist Attacks, Natural Disasters and Metropolitan Policies*, Harry W. Richardson, Qisheng Pan, Jiyoung Park, and James E. Moore, II (eds.) Springer: Heidelberg, 2015.
5. *National Economic Impacts of Terrorist Attacks and Natural Disasters*, Harry W. Richardson, Qisheng Pan, Jiyoung Park, and James E. Moore, II (eds.) Edward Elgar Publishers: Cheltenham and Northampton, 2014.
4. *Global Business and the Terrorist Threat*, Harry W. Richardson, Peter Gordon and James E. Moore, II (eds.) Edward Elgar Publishers: Cheltenham and Northampton, 2009.
3. *Natural Disaster Analysis After Hurricane Katrina: Risk Assessment, Economic Impacts, and Social Implications*, Harry W. Richardson, Peter Gordon, and James E. Moore, II (eds.) Edward Elgar Publishing: Cheltenham and Northampton, 2008.
2. *The Economic Costs and Consequences of Terrorism*, Harry W. Richardson, Peter Gordon, and James E. Moore, II (eds.) Edward Elgar Publishing: Cheltenham and Northampton, 2007.
1. *The Economic Impacts of Terrorist Attacks*, Harry W. Richardson, Peter Gordon, and James E. Moore, II (eds.) Edward Elgar Publishing: Cheltenham and Northampton, 2005.

### Edited Journal Issues

1. *Transportation Research E: Logistics and Transportation Review*, **44**, 2, Selected Papers from the National Urban Freight Conference, edited by Maged Dessouky, Genevieve Giuliano, and James E. Moore, II (2007).

## Refereed Publications (Continued)

### Journal Articles

90. .

89. .

88. (second author, with Jiyoung Park, Peter Gordon, and Harry W. Richardson) "A New Approach to Quantifying the Impact of Hurricane-Disrupted Oil Refinery Operations Utilizing Secondary Data," *Group Decision and Negotiation* **26**, 6 (2017): 1125-1144, DOI 10.1007/s10726-017-9537-7.

87. (third author, with JoongKoo Cho, Peter Gordon, Qisheng Pan, Jiyoung Park, and Harry Richardson) "TransNIEMO: Economic Impact Analysis Using a Model of Consistent Interregional Economic and Network Equilibria," *Transportation Planning and Technology* **38**, 5 (2015): 483-502. CESIFO Working Paper No. 4601, Category 12: Empirical and Theoretical Methods.

86. (third author, with Qian An, and Peter Gordon) "A Note on Commuting Times and City Size: Testing Variances as Well as Means," *Journal of Transport and Land Use*, **5**, 2 (2014): 110-115. Presented at the 52<sup>nd</sup> Annual Meetings of the Western Regional Science Association, Santa Barbara, CA, February 24-27, 2013. <http://dx.doi.org/10.5198/jtlu.v7i2.427>

85. (fourth author, with Christine Nguyen, Alejandro Toriello, and Maged Dessouky) "Evaluation of Transportation Practices in the California Cut Flower Industry," *Interfaces: The INFORMS Journal on the Practice of Operations Research*, **43**, 2 (2013): 182-193. Presented at the Institute of Industrial Engineers Annual Industrial Engineering Conference and Exposition, May 19-23, 2012.

84. (third author, with Jiyoung Park, Peter Gordon, and Harry W. Richardson) "The Gulf Oil Spill and Economic Impacts: Extending the National Interstate Economic Model (NIEMO) to Account for Induced Impacts," *Journal of Homeland Security and Emergency Management*, **10**, 1 (2013): 231-244. Presented at the 50th Annual Meetings of the Western Regional Science Association, Monterey, CA, February 27 - March 2, 2011.

83. (third author, with Qisheng Pan, Peter Gordon, and Harry W. Richardson) "Modeling the Effects of Peak-Load Pricing on Metropolitan Network and Activities," *Transportation Research Record: Journal of the Transportation Research Board*, **2255** (2012): 12-19. Presented at 52<sup>nd</sup> Annual Transportation Research Forum (TRF), Long Beach, CA, March 10-12, and the 90<sup>th</sup> Annual Meetings of the Transportation Research Board (TRB), Washington, DC, January 23-27, 2011.

82. (third author, with Bumsoo Lee, Peter Gordon, and Harry Richardson) "The Attributes of Residence / Workplace Areas and Transit Commuting," *Journal of Transport and Land Use*, <http://jtlu.org> **4**, 3 (Fall, 2011): 43-63. Presented at the 47<sup>th</sup> Annual Meetings of the Western Regional Science Association (WRSA), Waikoloa (Big Island) HI, February 17-20, 2008.

81. (third author, with Bumsoo Lee, Peter Gordon, Jiyoung Park, and Harry W. Richardson) "Estimating the State-by-State Economic Impacts of a Foot-and-Mouth (FMD) Attack," *International Regional Science Review*, <http://irx.sagepub.com/> **35**, 1 (2011): 26-47. Presented at the 54<sup>th</sup> Annual Meetings of the Regional Science Association International (RSAI), Savannah, GA, November 7-10, 2007.

## Refereed Publications (Continued)

80. (third author, with JiYoung Park, JoongKoo Cho, Peter Gordon, Harry W. Richardson, and SungSu Yoon) "Adding a Freight Network to a National Interstate Input-Output Model: A TransNIEMO Application for California," *Journal of Transport Geography*, **19** (2011):1410-1422, <http://www.journals.elsevier.com/journal-of-transport-geography/>. Presented in Session 3.1, Logistics/Good Movement II, at the TRANSLOG 2009 (Transportation and Logistics) 1<sup>st</sup> Annual International Conference, McMaster University, Hamilton ON, June 17-18, 2009.
79. (second author, with Peter Gordon Jiyoung Park, and Harry W. Richardson) "Short-Run Economic Impacts of Hurricane Katrina (and Rita)," *CESifo Forum*, **11**, 2 (Summer 2010): 73-79.
78. (second author, with Geunyoung Kim and Seonhee Chae) "Estimation of the Economic Impacts of the SARS Disaster on Tourism Demand from Four Major Countries in Korea," *Journal of the Korean Society of Hazard Mitigation* **9**, 6 (2009): 77-87. . Presented at the International Symposium on City Planning, Chonbuk National University, Jeonju, Korea, August 21-23, 2008.
77. (second author, with Geunyoung Kim) "The Study of Hazardous Material Incidents in Korea," *Journal of the Korean Society of Hazard Mitigation* **9**, 1 (2009): 91-97. Presented at the International Symposium on City Planning, Chonbuk National University, Jeonju, Korea, August 21-23, 2008.
76. (fourth author, with Jiyoung Park, Peter Gordon, Eunha Jun, and Harry W. Richardson) "Identifying the Regional Economic Impacts of 9/11," *Peace Economics, Peace Science and Public Policy*, **15**, 2 (2009): <http://www.bepress.com/peps/vol15/iss2/6/>. Presented at the 55<sup>th</sup> Annual Meetings of the Regional Science Association International (RSAI), Brooklyn, NY, November 19-22, 2008, Session 24. Economic Impacts of 9/11-II.
75. (fourth author, with Qisheng Pan, Harry W. Richardson, and Peter Gordon) "The Economic Impacts of a Terrorist Attack on the Downtown Los Angeles Financial District," *Spatial Economic Analysis* **4**, 2 (2009): 213-239. Presented at the 46<sup>th</sup> Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Kansas City, MO, October 27-30, 2005; and at the 46<sup>th</sup> Annual Meetings of the Western Regional Science Association (WRSA), Newport Beach, CA, February 21-24, 2006.
74. (third author, with Bumsoo Lee, Peter Gordon, and Harry W. Richardson) "Commuting Trends in U.S. Cities in the 1990s," *Journal of Planning Education and Research* **29**, 1 (2009): 78-89.
73. (third author, with Bumsoo Lee, Peter Gordon, and Harry W. Richardson) "Simulating the Economic Impacts of a Hypothetical Bio-terrorist Attack: A Sports Stadium Case," *Journal of Homeland Security and Emergency Management* **5**, 1 (2008): Article 39, <http://www.bepress.com/jhsem/vol5/iss1/39>.
72. (third author, with Jiyoung Park, Peter Gordon, and Harry W. Richardson, "A Two-Step Approach Estimating State-by-State Commodity Trade Flows," *Annals of Regional Science* **43**, 4 (2009): 1033-1072. Presented at the 2004 National IMPLAN User's Conference, Sheperdstown, WV, October 6-8, 2004.
71. (third author, with Jiyoung Park, Peter Gordon, and Harry W. Richardson) "The State-by-State Economic Impacts of the 2002 Shutdown of the Los Angeles-Long Beach Ports," *Growth and Change* **39**, 4 (2008): 548-577. Presented at the 54<sup>th</sup> Annual Meetings of the Regional Science Association International (RSAI), Savannah, GA, November 7-10, 2007.
70. (third author, with Peter Gordon, Soojung Kim, Jiyoung Park, and Harry W. Richardson) "The Economic Impacts of a Terrorist Attack on the U.S. Commercial Aviation System," *Risk Analysis, An International Journal*, Special issue on Terrorism **27**, 3 (2007): 505-512. Presented at the 45<sup>th</sup> Annual Meetings of the Western Regional Science Association (WRSA), Santa Fe, NM, February 22-25, 2006.



## Refereed Publications (Continued)

69. (second author, with Anne Kiremidjian, Yue Yue Fan, Ozgur Yazlali, Nesrin Basoz, and Meredith Williams) "Effects of Local Site Characteristics on Seismic Risk of Transportation Network Systems," *Journal of Earthquake Engineering*, **11**, 3 (2007): 371-382. Presented as Keynote lecture 3, Developments in Seismic Damage to Networks in the USA and Europe: The PEER Highway Demonstration Project, GNDT MAE-SAFERR Conference on Seismic Risk in Urban Areas, Erice, Italy, May 26-28, 2003.
68. (third and principal author, with Nobuhiko Shiraki, Masanobu Shinozuka, Stephanie E. Chang, Hiroyuki Kameda, and Satoshi Tanaka) "Transportation System Risk Curves: Probabilistic Performance Scenarios for Highway Networks Subject to Earthquake Damage," *American Society of Civil Engineers Journal of Infrastructure Systems*, **13**, 1 (2007): 43-54. Presented at the Pacific Earthquake Engineering / Multidisciplinary Center for Earthquake Engineering Research / Mid-America Earthquake Center *Tri-Center Annual Investigator's Meeting*, Las Vegas, 2003.
67. (first author, with Richard G. Little, Sungbin Cho, and Shin Lee) "Using Regional Economic Models to Estimate the Costs of Infrastructure Failures: The Cost of a Limited Interruption in Electric Power in the Los Angeles Region," *Public Works Management and Policy*, **10**, 3 (2006): 256-274.
66. (first and principal author, with Michael McNally, Steve Mattingly, and C. Arthur McCarley) "Technical Evaluation of the Anaheim Adaptive Control Field Operational Test: Institutional and Technical Issues," *Journal of Transportation Planning and Technology*, **28**, 6 (2005): 465-482.
65. (third author, with Yueyue Fan and Robert Kalaba) "Arriving on Time," *Journal of Optimization Theory and Applications*, **127**, 3 (2005): 497-513. Special Issue in Memory of Robert E. Kalaba, edited by F. E. Udawadia. Presented at the Institute For Operations Research and Management Science (INFORMS) Annual Meeting: The Silicon Valley Challenge, San Jose, 2002.
64. (third author, with Yueyue Fan and Robert Kalaba) "Shortest Paths in Stochastic Networks with Correlated Link Costs," *Computers and Mathematics with Applications*, **49**, 9-10 (2005): 1549-1564. Presented at the Institute For Operations Research and Management Science (INFORMS) Annual Meeting: OR/MS in the Community, Atlanta, 2003.
63. (third and principal author, with Donghwan An, Peter Gordon, and Harry Richardson) "Regional Economic Models for Performance Based Earthquake Engineering," *American Society of Civil Engineers / Natural Hazards Research Applications and Information Center Natural Hazards Review*, **5**, 4 (2004): 188-194.
62. (first and principal author, with John Kuprenas, Jiin-Jen Lee, Peter Gordon, and Harry W. Richardson) "Cost Analysis Methodology for Advanced Treatment of Stormwater: The Los Angeles Case," *Journal of Construction Research*, **5**, 2 (2004): 1-22. Presented at the 4<sup>th</sup> Joint Society of Cost Estimating and Analysis / International Society of Parametric Analysts International Conference and Educational Workshop, Orlando, 2003; at the Claremont Mckenna College's Rose Institute of State and Local Government's water conference, Southern California's Water Crisis: New Complexities, New Challenge, Claremont, 2003; and at the American Water Resources Association Annual Conference, San Diego, 2003.
61. (first and principal author with Genevieve Giuliano and Seongkil Cho) "Secondary Accident Rates on Los Angeles Freeways," *American Society of Civil Engineers Journal of Transportation Engineering*, **130**, 3 (2004): 280-285.
60. (first and principal author, with Genevieve Giuliano and Jeremy March) "Field Operational Test Performance of Automatic Passenger Counters," *Intelligent Transportation Systems Journal*, **7**, 2 (2002): 131-150.
59. (first and principal author, with Seongkil Cho and Daniel Mezger) "Feasibility of Using Los Angeles Freeway Service Patrol Trucks as Probe Vehicles," *American Society of Civil Engineers Journal of Transportation Engineering*, **128** (2002): 528-536.

## Refereed Publications (Continued)

58. (principal author, with C.Arthur MacCarley, Stephen P. Mattingly, Michael G. McNally, and Daniel Mezger, "Lessons Learned from the Irvine Integrated Freeway Ramp Metering / Arterial Adaptive Signal Control Field Operational Test," *Transportation Research Record*, **1811** Advanced Traffic Management Systems for Freeways and Traffic Signal Systems (Highway Operations, Capacity, and Traffic Control, 2002): 76-83. Presented (Group 3 - Operation, Safety and Maintenance of Transportation Facilities) at the Transportation Research Board 80th Annual Meeting in Washington, D.C., January 2001.
57. (second author, with Myung-Jin Jun) "The Lowry Model Revisited: Incorporating a Multizonal Input-Output Model into an Urban Land Use Allocation Model," *Review of Urban and Regional Development Studies*, **14**, 1 (2002): 1-17.
56. (second and co-author, with Genevieve Giuliano and J. Golob) "Advanced Technology and Integrated Public Transit: The San Gabriel Valley Smart Shuttle Field Operational Test," *Transportation Research Record*, **1774** Artificial Intelligence and Intelligent Transportation Systems (2001): 44-51. Presented (Paper No. 01-2454) at the Transportation Research Board 80th Annual Meeting in Washington, D.C., January 2001.
55. (third and principal author, with Sungbin Cho, Peter Gordon, Harry W. Richardson, M. Shinozuka, and Stephanie E. Chang) "Integrating Transportation Network and Regional Economic Models to Estimate the Costs of a Large Urban Earthquake," *Journal of Regional Science*, **41**, 1 (2001): 39-65. Reprinted in *The Economics of Natural Disasters Vol. I*. Edited by Howard Kunreuther and Adam Rose for the International Library of Critical Writings in Economics 178. Edmund Elgar Publishing: Northampton, MA (2004): 262-288. Presented at the 46<sup>th</sup> North American Meetings of the Regional Science Association - International, Montreal, November 12-13, 1999; at Session MD25: Traffic Network Equilibrium, Institute for Operations Research and Management Science Nation Meeting, Cincinnati, May 2-5, 1999; and at the Session on Regional Economic Effects of Unscheduled Events (session in memory of Barclay G. Jones), 45<sup>th</sup> North American Meetings of the Regional Science Association - International, Santa Fe, November 11-14, 1998.
54. (second and co-author, with Genevieve Giuliano, and J. Golob) "Integrated Smart Card Fare System: Results from Field Operational Test," *Transportation Research Record*, **1735** Transit Planning, Intermodal Facilities, Management and Marketing (2000): 138-146. Presented the 79<sup>th</sup> Annual Meetings of the Transportation Research Board, Washington, D.C., January 9-13, 2000; and at the Session on Transport and the City: A Los Angeles Stream Panel, 40<sup>th</sup> Annual Conference of the Association of Collegiate Schools of Planning: Tomorrow's Cities Today, Pasadena, November 7, 1998.
53. (fourth and principal author, with Sungbin Cho, Seongkil Cho, Peter Gordon, Harry W. Richardson, M. Shinozuka, and Stephanie E. Chang) "Analyzing Transportation Network Reconstruction Strategies: A Full Cost Approach," *Review of Urban and Regional Development Studies*, **12**, 3 (2000): 212-227. Presented at the 2<sup>nd</sup> EuroConference on Global Change and Catastrophe Risk Management: Earthquake Risks in Europe International, Institute for Applied Systems Analysis, Laxenburg, Austria, July 6-9, 2000, and at the 39<sup>th</sup> Western Regional Science Association Meetings, Kauai I, Hawaii, February 26-March 1, 2000.
52. (first and principal author, with Thomas A. Rubin and Shin Lee) "Market Based Transportation Alternatives for Los Angeles," *Planning and Markets*, **3** (2000): 31-35, <http://www-pam.usc.edu/volume3/v3i1a4s1.html>. Presented at the 72<sup>nd</sup> Western Economic Association International Conference, Seattle, July, 1997.
51. (second and co-author, with Seongkil Cho) "An Improved User Equilibrium-based Method for Estimating Trip Tables," *American Society of Civil Engineers Journal of Transportation Engineering*, **126**, 3 (2000): 492-497.
50. (third author, with Stephanie E. Chang, and M. Shinozuka) "Probabilistic Earthquake Scenarios: Extending Risk Analysis Methodologies to Spatially Distributed Systems," *Earthquake Spectra*, **16**, 3 (2000): 557-572.

## Refereed Publications (Continued)

49. (third and co-author, with Michael G. McNally, Stephen P. Mattingly, C.Arthur MacCarley, His-Hwa Hu, and R.Jayakrishnan), "Evaluation of the Anaheim Adaptive Control Field Operational Test: Institutional Issues," *Transportation Research Record*, **1683**, Advanced Traffic Management Systems (1999): 67-77. Presented at session TRB991560, 78<sup>th</sup> Annual Meetings of the Transportation Research Board, Washington, DC, January 10-14, 1999.
48. (second author, with Geunyoung Kim and Rong Xu) "An Analysis of Seasonality and Long Term Trends in Los Angeles Highway Traffic Volumes," *Journal of the Eastern Asia Society for Transportation Studies*, **3** (1999): 1-14.
47. (second and principal author, with Tom Rubin and Shin Lee) "Ten Myths About US Rail Transit Systems." *Transportation Policy*, **6** (1999): 57-73.
46. (second and principal author, with Robert Kalaba, Rong Xu, and Gang [Jeffery] Chen) "Nonlinear Estimation with Associative Memories and Machine Evaluation of Derivatives: An Application to Calibrating Spatial Interaction Models." *Environment and Planning A*, **31** (1999), 441-457. Presented at the Transportation Science Section Session on Urban Form and Transport, Institute for Operations Research and Management Science, Los Angeles, April 24, 1995.
45. (second and principal author, with Tom Rubin and Shin Lee) "A Post Mortem Analysis of the Los Angeles County Metropolitan Transportation Authority's 20-Year Long Range Plan." *Public Works Management and Policy*, **3** (1999): 187-206.
44. (first and principal author, with Gen Giuliano) "Functional Evaluation of the Los Angeles Smart Card Field Operational Test." *Transportation Research C*, **6C** (1998): 247-270.
43. (third author, with Stuart Werner and Craig Taylor) "Loss Estimation Due to Seismic Risks to Highway Systems." *Earthquake Spectra*, **13**, 4, Theme Issue: Loss Estimation (1997): 585-604.
42. (first and principal author, with T. John Kim) "Mills Urban System Models: Perspective and Template for LUTE (Land Use / Transport / Environment) Applications." *Computers, Environment, and Urban Systems*, **19** (1995): 1-19. Presented at the 38th North American Meetings of the Regional Science Association International, New Orleans, 1991.
41. (second and principal author, with Akram Masri) "Integrated Planning Information Systems: Disaster Planning Analysis." *American Society of Civil Engineers Journal of Urban Planning and Development*, **121** (1995): 19-39. <http://www.pubs.asce.org/WWWdisplay.cgi?9500606>
40. (first and principal author, with Robert Kalaba, Moon Kim, and Jong Gook Seo) "Time Series and Turning Point Forecasts: A Comparison of Feedforward Neural Networks, Associative Memories, and Bayesian Econometric Techniques." *Mathematical Modelling and Scientific Computing*, **2** (1994).
39. (third author, with Robert Kalaba, Firdais Udawadia, and Rong Xu) "Lagrange's Problem Without Lagrange Multipliers I: The Holonomic Case." *Nonlinear World*, **1** (1994): 229-243.
38. (second and principal author, with Akram Masri) "Integrated Planning Information Systems: Context, Design Requirements, and Prospects." *Computers, Environment, and Urban Systems*, **16** (1994): 491-512.
37. (first and principal author, with Robert Kalaba, Moon Kim, and Hyeon Park) "Time Series and Turning Point Forecasts: A Comparison of Associative Memories and Bayesian Econometric Techniques Applied to LeSage's Data." *Journal of Regional Science*, **34** (1994): 1-26. Presented at the 38th North American Meetings of the Regional Science Association International, New Orleans, 1991.

### Refereed Publications (Continued)

36. (first and principal author, with Robert Kalaba, Moon Kim, and Jong-Gook Seo) "Obtaining Initial Parameter Estimates for Nonlinear Systems: Comparing Associative Memory and Neural Network Approaches." *Mathematical Modelling and Scientific Computing*, **1** (1993): 89-115.
35. "Ridership and Cost on the Los Angeles-Long Beach Blue Line Train." *Transportation Research A*, **27A** (1993): 139-152.
34. (third and principal author with Robert Kalaba and Moon Kim) "Linear Programming and Recurrent Associative Memories." *General Systems*, **20** (1992): 177-194. Presented at the 38th Annual Meetings of the Society for Industrial and Applied Mathematics, Chicago, 1990.
33. "Transferable Development Rights and Linear Programming." *Journal of Planning Education and Research*, **11** (1991): 7-18.
32. (first and principal author, with Robert Kalaba, Moon Kim, Jong-Gook Seo, and Wu-Ying) "Linear Programming, Recurrent Associative Memories, and Feed-Forward Neural Networks." *Computers and Mathematics with Applications*, **22** (1991): 71-90.
31. (first and principal author, with Jong-Gook Seo) "Reverse Commutation in a Monocentric City." *Journal of Regional Science*, **31** (1991): 291-310. Presented at the 29th National Meetings of The Institute for Management Science, and the Operations Research Society of America, Las Vegas, 1990.
30. (second and co-author, with Peter Gordon) "Planning the Trajectories of Land and Development Rights Rents via Discrete Programming Models." *Environment and Planning A*, **23** (1991): 1561-1570. Presented at the 29th European Congress of the Regional Science Association, Cambridge, 1989.
29. (third and principal author, with Robert Kalaba and Moon Kim) "Linear Programming and Simple Associative Memories." *Applied Math and Computation*, **40** (1991): 203-214. Presented at the International Joint Conference on Neural Networks, San Diego, 1990.
28. (first and co-author, with Peter Gordon) "A Sequential Programming Model of Urban Land Development." *Socio-Economic Planning Science*, **24** (1990): 199-216. Presented at the Joint International Meetings of the Canadian Operations Research Society, The Institute of Management Science, and the Operations Research Society of America, Vancouver, 1989; and the 11th Meetings of the Pacific Regional Science Association, Singapore, 1989.
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16. (fourth author, with Jiyoung Park, Peter Gordon, Yunkyung Kim, and Harry Richardson) "The Temporal Regional Economic Impacts of a Hurricane Disaster on Oil Refinery Operations: A FlexNEMO Approach," Chapter 10 in *Improving Homeland Security Decisions*, Ali Abbas, Milind Tambe, and Detlof von Winterfeldt (eds.) Cambridge University Press: Cambridge (2017): 220-237.

15. (second author, with Peter Gordon, Jiyoung Park, and Harry W. Richardson) "The Economic Impacts of International Border Closure: A State-by-State Analysis," Chapter 12 in *Global Business and the Terrorist Threat*, Harry W. Richardson, Peter Gordon and James E. Moore, II (eds.) Edward Elgar Publishers: Cheltenham and Northampton (2009): 201-227. Presented at the Fourth Center for Risk and Economic Analysis of Terrorism Events (CREATE) Symposium: Global Business and the Terrorist Threat, Los Angeles, August 17-18, 2007.

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9. (third author, with Jiyoung Park, Peter Gordon, and Harry W. Richardson) "Simulating the State-by-State Effects of Terrorist Attacks on Three Major U.S. Ports: Applying NIEMO (National Interstate Economic Model)," in *The Economic Costs and Consequences of Terrorism*, edited by Harry W. Richardson, Peter Gordon, and James E. Moore, II, Edward Elgar Publishing: Cheltenham and Northampton (2007): 208-234. Presented at the Second Center for Risk and Economic Analysis of Terrorism Events (CREATE) Symposium on the Economic Cost and Consequences of a Terrorist Attack, Los Angeles, August 19, 2005; and the National Center for Metropolitan Transportation Research (METRANS) National Urban Freight Conference, Long Beach, February 3, 2006.
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55. (third author, with Greg Placencia, and John Franklin) "Technical and Safety Evaluation of the Southern California Regional Rail Authority Positive Train Control Deployment Project: Challenges and Lessons Learned," Federal Transit Administration (FTA) Report 0112 under Cooperative Agreement 26-7084, July, 2017.

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11. (third author, with Stuart D. Werner, Craig E. Taylor, and Jon Walton) "Year 4 Annual Report Seismic Risk Analysis of Highway Systems (TASK 106-E-7.3.1)," Interim Report prepared for the National Center for Earthquake Engineering under FHWA Contract DTFH61-92-C-00106, Seismic Vulnerability of Existing Highway Construction (October, 1997).
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47. "Council of University Transportation Research Centers Awardees Announced," and "News from the Transportation Planning Special Interest Group," Institute For Operations Research and Management Science Transportation Science and Logistics Section Newsletter, Fall (2004, <http://transportation.section.informs.org>).

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46. (eighth author, with Stuart D. Werner, Craig E. Taylor, Sungbin Cho, Jean Paul Lavoie, Charles K. Huyck, Chip Eitzel, and Ronald T. Eguchi, "New Developments in Seismic Risk Analysis of Highway Systems," *Proceedings of the 13<sup>th</sup> World Conference on Earthquake Engineering*, Paper 2189, Vancouver, August 1-6, 2004.
45. "The Fichtner Principle," *USC Engineer*, 2 (Spring/Summer 2004): 7.
44. (principal author, with Sungbin Cho and Yue Yue Fan) "Modeling Transportation Network Flows as a Simultaneous Function of Travel Demand, Earthquake Damage, and Network Level of Service," *Advancing Mitigation Technologies and Disaster Response for Lifeline Systems, Proceedings of the Sixth U.S. Conference and Workshop on Lifeline Earthquake Engineering*, James E. Beavers (ed.), American Society of Civil Engineers Technical Council on Lifeline Earthquake Engineering (TCLEE) Monograph No. 25, Long Beach, August 10-13, 2003: 868-877.
43. (second author, with Anne Kiremidjian, Nesrin Basoz, Ozgur Yazlali and Meredith Williams) "Uncertainty Propagation in Risk Assessment of Highway Networks," *Application of Statistics and Probability in Civil Engineering, Proceedings of the Ninth International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP9)*, A. Der Kiureghian, S. Madanat and J. M. Pestana (eds.), San Francisco, Jul. 6 - 9, 2003, Millpress, Rotterdam.
42. (second author, with Anne Kiremidjian, Yue Yue Fan Ozgur Yazlali, Nesrin Basoz, and Meredith Williams) "The PEER Highway Demonstration Project," *Advancing Mitigation Technologies and Disaster Response for Lifeline Systems, Proceedings of the Sixth U.S. Conference and Workshop on Lifeline Earthquake Engineering*, James E. Beavers (ed.), American Society of Civil Engineers Technical Council on Lifeline Earthquake Engineering (TCLEE) Monograph No. 25, Long Beach, August 10-13, 2003: 896-905.
41. (third author, with John A. Kuprenas, Peter Gordon, Harry W. Richards, and Jiin-Jen (J.J.) Lee) "Analysis Methodology For Stormwater Treatment Costs," *ISPA/SCEA 2003 Conference Proceedings* (CD-ROM), 4<sup>th</sup> Joint International Society of Parametric Analysts / Society for Cost Estimating and Analysis International Conference and Educational Workshop, June 17-20, 2003, Orlando, Florida.
40. (with S. D. Werner, J.-P. Lavoie, C. Eitzel, S.B. Cho, C. Huyck, S. Ghosh, R. T. Eguchi, and C. Taylor) "REDARS 1 Demonstration Software for Seismic Risk Analysis of Highways," *Research Accomplishments 2001-03, A Selection of Papers Chronicling the Technical Achievements of the Multidisciplinary Center for Earthquake Engineering Research*, University at Buffalo, State University of New York, MCEER-03-SP01 (May, 2003).
39. "Email Deletion Policies," Viewpoint, *Faculty Forum, The Newsletter of the USC Academic Senate* 4 (Spring, 2003): 4-5.
38. Book review, with Yue Yue Fan: *New Analytical Advances in Transportation and Spatial Dynamics*, Massimo Gastaldi and Aura Reggiani, (eds), Ashgate Publishing Company, *Journal of the Regional Science* 43 (2003): 183-185.
37. (fourth author, with Anne Kiremidjian, Nesrin Basoz, and Meredith Williams) "Implications of Different Site Hazards on Highway Network Loss Estimation," *Proceedings of the 4<sup>th</sup> China-Japan-US Trilateral Symposium on Lifeline Earthquake Engineering*, 2002, Oct 28-30, Qindao, China.
36. (second author, with Anne Kiremidjian, Nesrin Basoz, Kelly Burnell, Yueyue Fan, and Ayse Hortascu) "Earthquake Risk Assessment for Transportation Systems," *Proceedings of the Seventh U.S. National Conference on Earthquake Engineering. (TNCEE)*, July 21-25, 2002, Boston, Massachusetts, Earthquake Engineering Research Institute (EERI): III-2109-2116.

### Other Unrefereed Publications (Continued)

35. (second and principal author, with Peter Gordon, Harry Richardson, Masanobu Shinozuka, and Sungbin Cho) "Earthquake Disaster Mitigation for Urban Transportation Systems: An Integrated Methodology that Builds on the Kobe and Northridge Experiences," Proceedings of the Japan-U.S. Workshop on Disaster Risk Management for Urban Infrastructure Systems, May 14–16, 2001, Campus Plaza, Kyoto, Japan, pp 106-162; and Proceedings: U.S.-Japan Comparative Research on Urban Earthquake Disaster Mitigation, Monbu-Kagaku-sho and the National Science Foundation, August 15–16, 2001, University of Washington, Seattle, Washington: 463-483.
34. (third author, with Stuart D. Werner, Craig E. Taylor, Jon S. Walton, and Sungbin Cho) "A Risk-Based Methodology for Assessing the Seismic Performance of Highway Systems," Research Progress and Accomplishments 2000-2001: A Selection of Papers Chronicling Technical Achievements of the Multidisciplinary Center for Earthquake Engineering Research, University at Buffalo, State University of New York, MCEER-01-SP01 (May, 2001).
33. Book review: Network Infrastructure and the Urban Environment: Advances in Spatial Systems Modeling, Lars Lundqvist, Lars-Göran Mattsson, and Tschango John Kim (eds.), Springer-Verlag Series in Advances in Spatial Science, Journal of the American Planning Association, **67** (Spring, 2001): 228. [http://www.japa.pdx.edu/toc01\\_Spring.htm](http://www.japa.pdx.edu/toc01_Spring.htm)
32. (second author, with Anne S. Kiremidjian, Yueyue Fan, Ayse Hortascu, Kelly Burnell, and Jeremiah LeGrue) "A PEER Highway Demonstration Project: Earthquake Risk Assessment for Transportation Systems: Analysis of Pr-Retrofitted System," PEER Center News, **4** (1), Pacific Earthquake Engineering Research Center (Winter, 2001): 1-5.
31. "Education: Masters as the First Professional Degree," The ASCE Los Angeles Section Monthly **39** (2), February, 2000: 2.
30. (third author, with Stuart D. Werner and Craig E. Taylor) "New Developments in Seismic Risk Analysis of Highway Systems," Proceedings of the 12th World Conference on Earthquake Engineering (12WCEE), Auckland, New Zealand (2000).
29. (principal author, with R. Jayakrishnan, M.G. McNally, and C. Arthur MacCarley) "Evaluation of SCOOT Performance in the Anaheim Advanced Traffic Control System Field Operational Test," Intellimotion **8** (3), Partnership for Advanced Transit and Highways (1999). <http://www.path.berkeley.edu/PATH/Intellimotion/im8.3.pdf>
28. (first author, with Stephanie E. Chang, Peter Gordon, Harry W. Richardson, and M. Shinozuka) "Integrating Transportation and Economic Models," Optimizing Post Earthquake Lifeline System Reliability, Proceedings of the 5th U.S. Conference on Lifeline Earthquake Engineering, William Elliott and Peter McDonough (eds.), American Society of Civil Engineers Technical Council on Lifeline Earthquake Engineering (TCLEE) Monograph No. 16, Seattle, August 12-14, 1999: 11-20.
27. (third author, with Stu Werner and Craig Taylor) "Seismic Risk Analysis of Highway Systems: New Developments and Future Directions," Optimizing Post Earthquake Lifeline System Reliability, Proceedings of the 5th U.S. Conference on Lifeline Earthquake Engineering, William Elliott and Peter McDonough (eds.), American Society of Civil Engineers Technical Council on Lifeline Earthquake Engineering (TCLEE) Monograph No. 16, Seattle, August 12-14, 1999: 621-633. <http://www.pubs.asce.org/WWWdisplay.cgi?9903564>
26. (third author, with Stuart D. Werner, Craig E. Taylor, Jon S. Walton, John B. Jernigan, and Howard H.M. Hwang) "New Developments in Seismic Risk Analysis for Highway Systems," Proceedings of the Mid-America Highway Seismic Conference, St. Louis, Missouri, March 1-3, 1999 (updated version of a paper previously published in Proceedings of the 30th Joint Meeting of U.S.-Japan (UJNR) Panel on Wind and Seismic Effects, National Institute of Standards and Technology, Gaithersburg, MD, May 12-15, 1998). <http://www.fhwa.dot.gov/seismic/2-5-a.htm>

### Other Unrefereed Publications (Continued)

25. (second author, with M. Shinozuka, Peter Gordon, Harry W. Richardson, and Stephanie E. Chang) "The Effects of Earthquakes on Highway Infrastructure Productivity," *Proceedings of the Center-to-Center Workshop on Earthquake Engineering Frontiers in Transportation Systems*, Tokyo, Japan, June 22-23, 1998; edited by H. Kameda, Kyoto University, and Ian M. Friedland, Multidisciplinary Center of Earthquake Engineering Research, INCEDE-MCEER Center-to-Center Project: Post-Earthquake Reconstruction Strategies, International Center for Disaster Mitigation Engineering Report 1999-05 (Serial Number 13), December, 1999: 1-36 (updated version of a paper previously presented at the Montreal Meetings of the Canadian Operations Research Society and the Institute for Operations Research and the Management Sciences, Session ME02: Applications of Travel Forecasting Models, April 27, 1998).
24. (second author, with Masanobu Shinozuka, Peter Gordon, Harry Richardson, Stephanie Chang, and Sung-bin Cho) "An Integrated Model of Highway Networks and the Spatial Metropolitan Economy: Towards a General Model of How Earthquake Losses Affect the Economy," *NCEER Bulletin*, 12, Spring, 1998.
23. (third author, with Stuart D. Werner, Craig E. Taylor, John B. Mander, John B. Jernigan, and Howard W. M. Hwang) "New Developments in Seismic Risk Analysis of Highway Systems," *Proceedings of the 30th Joint Meeting of U.S.-Japan (UJNR) Panel on Wind and Seismic Effects*, National Institute of Standards and Technology, Gaithersburg, MD, May 12-15, 1998. Also presented at the Pacific Earthquake Engineering Research Center Invitational Workshop: Earthquake Risk to Transportation Systems, Stanford, CA July 10-11, 1998; and at the NCEER-INCEDE Center-to-Center Workshop: Earthquake Engineering Frontiers in Transportation Facilities, Tokyo, Japan, June 22-23, 1998.
22. (second author, with Geun-Young Kim) "Rapid Estimation of Los Angeles Freeway Network Flows: Applications to Seismic Risk Analysis," presented at the Session on Measuring the Effects of Unscheduled Events, 44th North American Meetings of the Regional Science Association International, Buffalo, NY, November 6-9, 1997.
21. (second author, with Thomas A. Rubin) "Alternatives to Rail: Rubber-Tire Transit," *Cal-Tax Digest*, 1 (October, 1997): 15-19. <http://www.caltax.org/MEMBER/digest/oct97/OCT97-6.HTM>
20. (third author, with Stuart D. Werner, Craig E. Taylor, John B. Jernigan, and Howard W. M. Hwang) "Seismic Risk Analysis of Highway Systems: A Status Report," *Proceedings of the National Seismic Conference On Bridges and Highways*, Sacramento CA, (July 8-11, 1997): 39-52.
19. (first author, with Peter Gordon and Harry W. Richardson) "Spatial Decentralization Trends in the United States," *Proceedings of the International Workshop on Suburbanization and Housing Development*, Korea Housing Institute, Seoul, Korea, June 20-21, 1997.
18. (second and principal author, with Peter Gordon, Harry W. Richardson, and Masanobu Shinozuka) "An Integrated Model of Urban Transportation and Production Systems: Towards a General Model of How Losses due to Earthquakes Affect the Spatial Metropolitan Economy," *Proceedings of the National Earthquake Hazard Reduction Program (NEHRP) Conference and Workshop on Research on the Northridge, California Earthquake of January 17, 1994: Volume IV: Social Sciences and Emergency Management*, Los Angeles, August 20-22, 1997, California Universities for Research in Earthquake Engineering (CUREe), Richmond, CA (1998): IV-102-111.
17. (second author, with Geun-Young Kim) "Rapid Estimation of Los Angeles Highway Network Flows: Applications to Seismic Risk Analysis," presented at the 22nd Annual Workshop on Hazards Research and Applications, Denver, CO, July 16, 1997.
16. (third author, with Stuart D. Werner, Craig E. Taylor, John B. Jernigan, and Howard W. M. Hwang) "Seismic Risk Analysis of Highway Systems: A Status Report," *Proceedings of the 2nd National Seismic Conference on Bridges and Highways*, Sacramento, CA, July 9-11, 1997.



### Other Unrefereed Publications (Continued)

15. (second author, with Peter Gordon, Harry W. Richardson, and M. Shinozuka) "An Integrated Model of Bridge Performance, Highway Networks, and the Spatial Metropolitan Economy: Towards a General Model of How Losses Due to Earthquake Impacts on Lifelines Affect the Economy," Proceedings of the Center-to-Center Project Workshop on Earthquake Engineering Frontiers in Transportation Facilities, Buffalo, NY, March 10-11, 1997; edited by George C. Lee and Ian M. Friedland, National Center of Earthquake Engineering Research, INCEDE-NCEER-INCEDE Center-to-Center Project: Post-Earthquake Reconstruction Strategies, International Center for Disaster Mitigation Engineering Report 1997-01 (Serial Number 9), Technical Report NCEER-97-0005, August 29, 1997: 515-525.
14. (co-author, with Akram Masri) "Integrated Planning Information Systems: The Disaster Policy Analysis System." Lusk Research Institute Bulletin 2 (May, 1996).
13. "Response to a 'Report by Jeffery Zupan,'" November 30, 1995. Expert Report provided to the NAACP Legal Defense and Education Fund in support of "Plaintiffs' Contentions of Fact and Law," Labor/Community Strategy Center, et. al. vs. the Los Angeles County Metropolitan Transportation Authority and Franklin E. White, etc.; United States District Court, Central District of California, Case No. CV 94-5936 TJH (Mcx). "Revised Statement Regarding Light Rail Funding," July 17, 1995. Exposition provided to the Cascade Policy Institute in support of testimony given July 12, 1995 before the Oregon House of Representatives Light Rail Task Force. <http://www.CascadePolicy.org/rail.htm>.
12. (third author, with Stuart D. Werner, Craig E. Taylor, John B. Jernigan, and Howard W. M. Hwang) "Seismic Risk Analysis of Highway Systems," Proceedings of the National Seismic Conference on Bridges and Highways, San Diego, CA, (December 1995).
11. (principal author, with Henry Koffman) "The USC Master of Construction Management: A New Interdisciplinary Option," FORM VI: Viewpoints•Vignettes•Visions (1995): 40-45. USC School of Architecture: Los Angeles.
10. "Artificial Intelligence Approaches to Rapid Estimation of Network Flow," Intellimotion, 4 (Fall, 1994) Partnership for Advanced Transit and Highways.
9. "Declaration of James E. Moore II," October 1, 1994. Expert Report provided to the NAACP Legal Defense and Education Fund in support of "Plaintiffs' Ex Parte Application for Temporary Restraining Order and Application for Preliminary Injunction," Labor/Community Strategy Center, et. al. vs. the Los Angeles County Metropolitan Transportation Authority and Franklin E. White, etc.; United States District Court, Central District of California, Case No. CV 94-5936 TJH (Mcx).
8. "Comments on 'Memorandum of Points and Authorities,'" September 9, 1994. Expert Report provided to the NAACP Legal Defense and Education Fund in support of "Plaintiffs' Ex Parte Application for Temporary Restraining Order and Application for Preliminary Injunction," Labor/Community Strategy Center, Bus Riders Union, Southern Christian Leadership Conference of Greater Los Angeles, County, Korean Immigrant Workers Advocates, Maria Guardado, Ricardo Zelada, Noemi Zelada, and Pearl Daniels vs. the Los Angeles County Metropolitan Transportation Authority and Franklin E. White, MTA Chief Executive Officer, in his Individual and Official Capacities; United States District Court, Central District of California, Case No. CV 94-5936 TJH (Mcx).
7. Book review: Network Economics: A Variational Inequality Approach, Anna Nagurney, Journal of Regional Science, 33 (1994): 559-562.
6. "Commentary on 'The Recent Popularity of Light Rail Transit in North America.'" Journal of Planning Education and Research, 13 (1993): 50-54.
5. Engineering Panel Summary, Proceedings of the 2nd Annual Symposium on the Role of Academia in National Competitiveness and Total Quality Management: Quality and Higher Education in the 21<sup>st</sup> Century, Los Angeles, July, 1991, 119-122.

### Other Unrefereed Publications (Continued)

4. Book review: Recursive Methods in Economic Dynamics, N. L. Stokey and R. E. Lucas Jr., with E. C. Prescott, Journal of Regional Science, **30** (1990): 437-439.
3. Book review: Advances in Spatial Theory and Dynamics, A. E. Anderson, D. F. Batten, B. Johansson, and P. Nijkamp (eds.) Journal of Regional Science, **30** (1990): 572-575.
2. (principal author, with Robert Kalaba) "Linear Programming and Associative Memories." Proceedings of the International Joint Conference on Neural Networks, San Diego, June, 1990, Vol III: 883-889.
1. "A Review of Mathematica for MS-DOS Personal Computers, with Reference to Math-CAD." Computers, Environment, and Urban Systems.

## Teaching Experience

1/88- present

### University of Southern California (\* indicates recent or current long term assignments, ‡ indicates inactive long term assignments, † indicates occasional assignments)

Welcome Week Micro-Seminar	How to Spend \$Billions & Reduce Transit Use*
Civil Engineering 106:	Design and Planning of Civil Engineering Systems (with G. Martin and others).‡
Civil Engineering 203g: Urban & Regional Planning 203g:	Spatial Organization of Society.‡
Civil Engineering 471:	Principles of Transportation Engineering.‡
Civil Engineering 554:	Risk and Reliability Analysis for Civil Infrastructure Systems.†
Civil Engineering 599:	Mathematics of Transportation Systems.†
Industrial & Systems Engineering 460:	Engineering Economy.‡
Industrial & Systems Engineering 495ax:	Senior Design Project (first semester).*
Industrial & Systems Engineering 495bx:	Senior Design Project (second semester).*
Industrial & Systems Engineering 530:	Introduction to Operations Research.‡
Policy, Planning, & Development 570:	Applied Statistics for Planning, Policy, and Management*
Policy, Planning, & Development 557: Public Administration 558:	Operations Research & Modeling.*
Public Policy & Management 404:	Statistics for Public Policy & Management.‡
Planning & Development 404:	Quantitative Methods for Planning & Development.‡
Policy, Planning, & Development 404x:	Statistics for Policy, Planning & Development.*
Planning & Development 490x:	The 28 <sup>th</sup> Street Mall Project (with D. Smith).†
Urban & Regional Planning 502:	Statistics & Arguing from Data.‡
Urban & Regional Planning 582:	Transportation Systems Analysis.‡
Urban & Regional Planning 4/599:	The USC-Habitat for Humanity Project.†
Urban & Regional Planning 591:	Integrative Seminar in Planning and Development Studies.†
Urban & Regional Planning 599:	Location Planning for Critical Facilities.†
Urban & Regional Planning 607:	Advanced Research Methods in Planning: Optimization & Matrix Methods.‡
Urban & Regional Planning 676L:	Core Laboratory (in Taipei, with E. Heikkila).†
Urban & Regional Planning 632:	National Urban Policy in Developing Countries: Preparing for Decentralized Urban Planning Regimes (with K. Mera, and H. Evans).‡

9/86- 12/87

### Northwestern University

Civil Engineering A90:	Microcomputers in Civil Engineering (with E. Rossow, C. Dowding, and J. Schofer)
Civil Engineering C05:	Engineering Value Analysis.
Civil Engineering C73:	Introduction to City and Regional Planning.
Civil Engineering D83:	Methods of Urban and Regional Analysis.

## Teaching Experience (Cont.)

		Civil Engineering D88:	Urban Development Models, Location Theory, and Land Use Planning (with A. de Palma).
		Industrial Engineering & Management Science C19:	Operations Research.
<b>9/84-</b>	<b>12/85</b>	<b>Stanford University</b>	
		Civil Engineering 135: Urban Studies 183:	Transportation Policy.
		Urban Studies 180, 199:	Seminar in the Planning and Design Professions.
		Undergraduate Special 12:	Personal Computing.

**PhD and DPPD****Dissertations Advised****\* indicates supervision, † indicates outside member**

- 2019 Pouyan Hosseini† “Novel Techniques for Analysis and Control of Traffic Flow in Urban Traffic Networks,” Department of Civil and Environmental Engineering, USC. Primary Advisor: Savla.
- 2019 Joshua Gray† “Total Systems Engineering Evaluation of Invasive Pediatric Medical Therapies Conducted in Non-Clinical Environments,” Department of Industrial and Systems Engineering, USC. Primary Advisor: Meshkati.
- 2018 Kiran K. Gururaj† “Low-Power, Dual Sampling-Rate, Shared-Architecture ADC (Analog-to-Digital Conversion) for Implantable Biomedical Systems,” Department of Electrical Engineering, USC. Primary Advisors: Choma, Madhavan, Prata.
- 2018 James Patrick Alstad† “COSYSMO 3.0: An Extended, Unified Cost Estimating Model for Systems Engineering,” Department of Astronautical Engineering, USC. Primary Advisor: Boehm.
- 2018 Mohammad Ali Moti Share “Novel Queueing Frameworks for Performance Analysis of Urban Traffic Systems,” Department of Civil and Environmental Engineering, USC. Primary Advisor: Savla.
- 2017 Douglas Orellana† “Extending Systems Architecting for Human Considerations Through Model-Based Systems Engineering,” Department of Astronautical Engineering, USC. Primary Advisor: Madni.
- 2017 Victoria Valentine Deguzman, “Case Studies in Real Estate Valuation,” Price School of Public Policy, USC (DPPD). Primary Advisor: Gordon.
- 2017 Stephen M. Hubbard, “Lessons Learned from the Federal Highway Administration (FHWA) State Infrastructure Bank Program,” Price School of Public Policy, USC (DPPD). Primary Advisor: Musso.
- 2016 Eunha (Eileen) Jun “Three Papers on Dynamic Externalities and Regional Growth,” Price School of Public Policy, USC. Primary Advisor: Green
- 2015 Uldrich A. Antao† “Subthreshold Circuit Design for Ultra Low Power Sensors, Ming Hsieh Department of Electrical Engineering, USC. Primary Advisors: Choma, Berger.
- 2015 Qian An\* “Economic Impact Analysis of City Logistics Alternatives Using the Southern California Planning Model,” Daniel J. Epstein Department of Industrial and Systems Engineering, USC.
- 2015 Susan Schobert† “Charge-Mode Analog IC Design: An Ultra-Low Power Approach for Deep Sub-1M CMOS Technologies,” Ming Hsieh Department of Electrical Engineering, USC. Primary Advisors: Choma, Maby.
- 2015 Kaveh Shahabi† “Scalable Evacuation Routing in Dynamic Environments,” Department of Computer Science, USC. Primary Advisor: Wilson.
- 2015 Mohammad S. Alshaiji† “Train Induced Vibrations in Poroelastic Media,” Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Wong.
- 2015 Elizabeth Valmont† “Lateral Sound Flanking Transmission at Curtain Wall Mullions: An Empirical Investigation to Identify Controlling Mechanisms,” School of Architecture, USC. Primary Adisor: Noble.

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2015** Sandip Chkrabarti “The Demand for Reliable Travel: Evidence From Los Angeles, and Implications for Transit Policy,” Sol Price School of Public Policy, USC. Primary Advisor: Giuliano.
- 2015** Maryam Ghadiri† “Investigation of the Feasibility of Artificial Recharge from the Los Angeles River to the Groundwater Basin,” Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2014** Irma Becerra,\* “Should Law Enforcement Officers at the Local Level be Involved in Enforcing Federal Immigration Law?,” Sol Price School of Public Policy, USC (DPPD).
- 2014** Yuting Hou, “Essays on Congestion, Agglomeration, and Urban Spatial Structure,” Sol Price School of Public Policy, USC. Primary Advisor: Redfearn.
- 2014** Shentong Lu,† “Numerical Analysis of Harbor Oscillation Under Effect of Fluctuating Tidal Levels and Varying Harbor Layout,” Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2014** Jae D. Kim, “Environmental Effects from Electric Vehicle Technology Adoption in an Urban Environment: Los Angeles County,” Epstein Department of Industrial and Systems Engineering, USC. Primary Advisor: Rahimi.  
Assistant Professor, University of San Diego.
- 2014** Christine Nguyen,\* “Supply Chain Consolidation and Cooperation in the Agriculture Industry,” Epstein Department of Industrial and Systems Engineering, USC. Co-Advisor: Dessouky.  
Assistant Professor, Northern Illinois University, Carbondale.
- 2013** JoongKoo Cho,\* “Freight Shipments, Greenhouse Gases, and Polluting Emissions: Implications for California and the U.S.,” Epstein Department of Industrial and Systems Engineering, USC.  
Southern California Association of Governments, Los Angeles.
- 2013** Jeongwoo Lee, “The Built Environment, Tour Complexity, and Active Travel,” Sol Price School of Public Policy, USC. Primary Advisor: Giuliano.  
Research Professor, University of Seoul, Republic of Korea.
- 2013** Jeffrey Wiginton,\* “Urban Universities' Campus Expansion Projects in the 21st Century: A Case Study of the University of Southern California's 'Village at USC' Project and its Potential Economic and Social Impacts on the Local Community to Provide a Template for Future Expansion Projects,” Sol Price School of Public Policy, USC (DPPD).
- 2013** Cheng-Yi (Michael) Lin,† “Talent Migration: Does Urban Density Matter?,” Sol Price School of Public Policy, USC.  
Milken Institute, Santa Monica.
- 2013** Chanin Chuen-Im,† “A Coastal Development in the Gulf of Thailand to Improve Global Trade,” Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2013 Ziyi Huang,† "Open Channel Flow Instabilities: Modeling the Spatial Evolution of Roll Waves," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2013 Osonde Osoba,† "Bayesian Inference with Adaptive Fuzzy Priors and Likelihoods," Ming Hsieh Department of Electrical Engineering, USC. Primary Advisor: Kosko.
- 2013 Shentong Lu,† "Investigation of Harbor Response induced by Long Wave with Two Numerical Models," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Wong.
- 2012 Mehrdad Bozorgnia,† "Computational Fluid Dynamic Analysis of Highway Bridges Exposed to Violent Waves," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2012 Hyoung-Jin Kim,† "Numerical Study on Dynamics of Unsteady Pipe Flow Involving Backflow Prevention Assemblies," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2012 Parisa Ghaemi,† "Generalized Optimal Location Planning," Department of Computer Science, USC. Primary advisor: Wilson.
- 2012 Sylvia He,† "Children's Travel Behavior in Journeys to School," Price School of Public Policy, USC. Primary advisor: Giuliano.  
Assistant Professor, Chinese University of Hong Kong.
- 2012 Chen Wang, "A New Approach for Routing Courier Delivery Services with Urgent Demand," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary advisor: Dessouky.
- 2012 Cameron Wilson (DPPD), "The Public Benefits in Public/Private Partnerships in Freight Rail Capacity Improvement," Price School of Public Policy, USC. Primary advisor: Richardson.
- 2011 Indrajeet Dixit, "An Inquiry into the Impact of the Specificity of the Termination Option," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary advisor: Settles.
- 2011 Yun Wang,† "Dynamic Variable Speed Limits: Design, Analysis and Benefits," Ming Hsieh Department of Electrical Engineering (Systems), USC. Primary advisor: Ioannou.
- 2011 Bennington Willardson,† "Prediction of Extreme Runoff Frequency Events in Southern California," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2011 Shi Mu, "Algorithms for Scheduling Freight Trains in Complex Rail Networks," Daniel J. Epstein Department of Industrial and Systems Engineering, University of Southern California. Primary advisor: Dessouky.

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2011** Hamid Reza Chabok, "Development of High Frequency 1-3 Composite Annular Array Ultrasound Transducers and a Digital Mico-Manufacturing Method for Piezocomposites," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary advisor: Wu.  
Jet Propulsion Laboratory, Pasadena.
- 2011** Neil Siegel, "Organizing Complex Projects Around Critical Skills and Risks Arising from System Dynamic Behavior," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary advisor: Boehm.  
Northrop Grumman Corporation, Los Angeles.
- 2011** Arthur Dhallin,\* "The Identification, Validation, and Modeling of Critical Parameters in Lean Six-Sigma Implementation," Daniel J. Epstein Department of Industrial and Systems Engineering, USC.  
The Aerospace Corporation, El Segundo.
- 2011** Phan Phan (P<sup>2</sup>), "Expanding Constraint Theory to Determine Consistency of Large Multi-Dimensional math Models by Application of Modern Advances in Graph Theory and Linear Algebra," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary advisor: Friedman.
- 2010** Cenk Karahan, "Pricing American Options via Monte Carlo Simulation: A New Heuristic for Constructing the Exercise Frontier," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary advisor: Ross.  
Assistant Professor, Bogazici University, Turkey.
- 2010** Yen-Ming (Emily) Lee,† "Some Optimal Stopping Problems with Offers from One of Two Possible Distributions," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary advisor: Ross.
- 2010** Zhiqing (Catherine) Kou,† "Predicting Debris Yields Using Artificial Intelligence Methods," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary advisor: Lee.
- 2010** Yuan Hung (Paul) Tan,† "Oscillations of Semi-Enclosed Water Bodies Induced by Hurricanes," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary advisor: Lee.
- 2010** Patrick Doyle,† "Probability Assessment: Continuous Quantities and Probability Decomposition," Department of Psychology, USC. Primary Advisor: John
- 2010** Yin Wang,† "Recent Experience in the Utilization of Private Finance for American Toll Road Development," School of Policy, Planning, and Development, USC. Primary Advisor: Redfern.
- 2010** Jiangping (JP) Zhou,† "Congestion Pricing With an Unpriced Time Period and Heterogeneous User Groups," School of Policy, Planning, and Development, USC. Primary Advisor: Giuliano.  
Assistant Professor, Shanghai University of Finance and Economics.



**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2009** Lingqian (Ivy) Hu,† "Urban Spatial Transformation and Job Accessibility: Spatial Mismatch Revisited," School of Policy, Planning, and Development, USC. Primary advisor: Giuliano.  
Assistant Professor of Urban Planning at the University of Wisconsin, Milwaukee.
- 2009** Samim Ghamamai, "Stochastic Models: Simulation and Heavy Traffic Analysis," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary Advisor: Ross.  
Post-doctoral Scholar, USC Center for Risk and Economic Analysis of Terrorism Events (CREATE)
- 2009** Mayank Mohan, "Value of Information for Environmental Policy Research," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary Advisor: von Winterfeldt.
- 2009** Tieshan Sun,† "Population and Employment Distribution and Urban Spatial Structure: An Empirical Analysis of Metropolitan Beijing, China, in the Post-Reform Era," School of Policy, Planning, and Development, USC.
- 2009** Hwan Chang,† "Reconfiguration Strategies for Mitigating the Impacts of Port Disruptions," Ming Hsieh Department of Electrical Engineering, Systems, USC. Primary Advisor: Choma
- 2009** Ajay Agarwal,† "The Entrepreneurial City Hypothesis: A Study of the Los Angeles Region," School of Policy, Planning, and Development, USC.  
Assistant Professor of Urban Planning at Queens University, Canada
- 2009** Xiang (Frank) Fang,† "CMOS Mixed-Signal Low Power Integrated Circuits Design for Biomimetic Micro-Electronics Systems," Ming Hsieh Department of Electrical Engineering, Electrophysics, USC. Primary Advisor: Choma.
- 2008** Kirsten McKay,† "Three Applications of the Reciprocal Theorem in Soil-Structure Interaction," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Wong.
- 2008** Pei-wen Chen,† "Vibration of Nearby Structures Induced by High-Speed Rail Transit," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Wong.
- 2008** Christian Sam,† "Optimum Cleanup Scenarios for VOC's and Perchlorate in Baldwin Park Operable Unit, San Gabriel Valley, Southern California," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2008** Huanghai Li,† "Choice of Local Governance Form and Homeowner Satisfaction of Municipal Services," School of Policy, Planning, and Development, USC.
- 2008** Elif Karsi,† "The Relationship Between Household Responsibility and Commute Length in the United States and Great Britain," School of Policy, Planning, and Development, USC. Primary Advisor: Giuliano.  
Assistant Professor, Appalachian State University, North Carolina

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2008 Qian Yu,† "Spatio-Temporal Probabilistic Inference for Persistent Object Detection and Tracking," Department of Computer Science, USC. Primary Advisor: Medioni.
- 2008 Matthew Shapiro,† "The Political Economy of R&D Collaborations: Micro- and Macro-Level Implications," Department of Economics, USC. Primary Advisor: Nugent.
- 2007 Yuan Chang,† "Motion Segmentation and Dense Reconstruction of Scenes Containing Moving Objects Observed by a Moving Camera," Department of Computer Science, USC. Primary Advisor: Medioni.
- 2007 Hakan Durmus,† "Resettable Higher Order Delta-Sigma Converters for Imaging Applications," Ming Hsieh Department of Electrical Engineering - Electrophysics, USC. Primary Advisor: Choma.
- 2007 Chiu-Hsien (Jerry) Chan,† "A Micropower Low-noise Autozeroing CMOS Amplifier for Cortical Neural Prostheses," Ming Hsieh Department of Electrical Engineering - Electrophysics, USC. Primary Advisor: Choma.
- 2007 Archana Jajodia,† "Predicting Alcohol Use: A Nonlinear Model with Expectations and Memory Associations," Department of Psychology, USC. Primary Advisor: Earleywine/Davison.
- 2007 Thomas Henkel, "Risk Transfer Modeling Among Heirarchically Associated Stakeholders in Development of Space Systems," Daniel J. Epstein Department of Industrial & Systems Engineering, USC. Primary Advisor: Friedman.
- 2007 Eduardo Miranda (DPDS), "Public Safety vs. Civil Liberties: How Do We Balance Both Without Infringing On One Or The Other," School of Policy, Planning, and Development, USC. Primary Advisor: Richardson.
- 2007 Jen Chang,† "Hydrodynamic Modeling and Feasibility Study of Harnessing Tidal Power at the Bay of Fundy," Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Lee.
- 2007 Burak Uslu,† "Deterministic and Probabilistic Tsunami Studies in California from Near and Farfield Sources, " Sonny Astani Department of Civil and Environmental Engineering, USC. Primary Advisor: Synolakis.
- 2007 Jiyong Park,† "Development of Demand- and Supply-Driven Multiregional Input/Output Models: The National Interstate Economic Model," School of Policy, Planning, and Development, USC.  
Associate Professor of Architecture and Urban Planning, State University of New York, Buffalo.
- 2006 Wei Ye, "Models and Algorithms for Energy Efficient Wireless Sensor Networks," Daniel J. Epstein Department of Industrial & Systems Engineering, USC. Primary Advisor: Ordonez.

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2006** Bumsoo Lee,† "Urban Spatial Structure, Commuting, and Growth in US Metropolitan Areas," School of Policy, Planning, and Development, USC. Primary Advisor: Gordon.  
Associate Professor of Urban and Regional Planning, University of Illinois, Urbana-Champaign.
- 2006** Sungbin Cho,\* "A Multi-Regional Computable General Equilibrium Model in the Heritage of A. Anas and I. Kim," School of Policy, Planning, and Development, USC.  
Southern California Association of Governments, Los Angeles.
- 2006** Hsi-Hwa Hu, "Transportation Patters, Land Use, and the Elderly," School of Policy, Planning, and Development, USC. Primary Advisor: Giuliano.  
Southern California Association of Governments, Los Angeles.
- 2006** Soo-jung Kim,† "A New Approach to Measuring the Effects of Infrastructure on Economic Performance," School of Policy, Planning, and Development, USC. Primary Advisor: Gordon.  
Milken Institute, Santa Monica.
- 2005** Tim Bakken,† "Gyrator-Based Synthesis of Active Inductances and Their Applications in Radio-Frequency Integrated Circuits," Department of Electrical Engineering - Electrophysics, USC. Primary Advisor: Choma.  
Internet Machines, Agoura Hills.
- 2005** Luca Quadrifoglio, "A Hybrid Fixed and Flexible Transportation Service: Description, Viability, Formulation, Optimization and Heuristic," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary Advisor: Dessouky.  
Associate Professor, Department of Civil and Environmental Engineering, Texas A&M University.
- 2005** Jung Hee Lim, "A Passive RLC Notch Filter Design Using Spiral Inductors and a Broadband Amp Design for RF Circuits," Department of Electrical Engineering - Electrophysics, USC. Primary Advisor: Choma.
- 2005** Hamid Pourmohammadi, "Green Logistics for Regional Industrial Waste Materials and By-Products," Daniel J. Epstein Department of Industrial and Systems Engineering, USC.  
Associate Professor Professor, Department of Information Systems and Operations Management, California State University, Dominguez Hills.
- 2004** Thomas O'Brien,\* "The Role that Agency Coordination Plays in the Deployment of Transit Technologies: The Case of Field Operational Tests," School of Policy, Planning, and Development, USC.  
Director of Research, Center for International Trade and Transportation, California State University, Long Beach.

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2004** Shih-Che Lo, "Integrated Model for Highway-based Travel Time Fore-casting With Application for Truck Transportation," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary Advisor: Hall.  
Assistant Professor, Department of Industrial Management, National Taiwan University.
- 2004** Chinan Chin, "A Slot Model for Automated Highway Flow Optimization Through Entry, Exit, and Flow Control," Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary Advisor: Hall.
- 2004** Suat Ay, "Design Issues and Performance of Large Format Scientific CMOS Image Sensors," Department of Electrical Engineering - Electrophysics, USC. Primary Advisor: Choma.
- 2003** Fahad Alrukaibi,\* "The Optimal Cluster Repair Sequence for a Transportation Network Following an Earthquake," Transportation Engineering program, Department of Civil and Environmental Engineering, USC.  
Associate Professor, Department of Civil and Environmental Engineering, Kuwait University.
- 2003** Mong Ka Fai,† "Reinforced Concrete Columns: A Comparison of Design Codes Including High Strength Concrete," International City University of America.
- 2003** Jiamin Zhao, "The Holding Problem for Transit Systems," Daniel J. Epstein Department of Industrial and Systems Engineering, USC.  
Oracle. Primary Advisor: Dessouky.
- 2003** Mohammad Alattar,\* "Multiobjective Optimization for Intermodal Container Freight Terminals," Transportation Engineering program, Department of Civil and Environmental Engineering, USC.  
Associate Professor, Department of Civil and Environmental Engineering, Kuwait University.
- 2002** Yue Yue Fan,\* "Optimal Routing Through Stochastic Networks," Transportation Engineering program, Department of Civil and Environmental Engineering, USC.  
Professor, Department of Civil and Environmental Engineering, University of California at Davis.
- 2002** Ali Nowroozi, "Fractal Theory and Groundwater Flow in Fractured Media," Geotechnical Engineering program, Department of Civil and Environmental Engineering, USC. Primary Advisor: Martin.
- 2002** Qisheng Pan, " Non-Survey Freight Flow Modeling Approaches," Urban and Regional Planning program, School of Policy, Planning, and Development, USC. Primary Advisor: Gordon.  
Associate Professor, School of Public Affairs, Texas Southern University, Houston.

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 2002** Junghoon Ki, "A Statistical Analysis of the Growth of High-Tech Centers in the US: Their Role in the Diffusion of Innovation," Urban and Regional Planning program, School of Policy, Planning, and Development, USC.  
Associate Professor, Department of Public Administration, Myongji University.
- 2002** Dong Hwan An, "Regional Economic Models with Endogenous Price Change," Urban and Regional Planning program, School of Policy, Planning, and Development, USC.  
Associate Professor Department of Agricultural Economics and Rural Development, Seoul National University, Seoul, Republic of Korea.
- 2002** James A. Parker, "Effects of Structural, Environmental, and Integrated Environmental-Structural Models on Strategic Decision Processes in Public Procurement Organizations," Doctor of Public Administration program, School of Policy, Planning, and Development, USC. Primary Advisor: Yan Tang.
- 2001** Hongsheng Zhong,† "Territory Planning and Vehicle Dispatching with Stochastic Customers and Demand," Department of Industrial and Systems Engineering, USC. Primary Advisor: Hall.
- 2001** Seongkil Cho,\* "Estimation of Origin-Destination Matrices from Link Traffic Counts and User Equilibrium Link Information," Urban and Regional Planning program, School of Policy, Planning, and Development, USC.  
Associate Professor, Department of Geoinformatics, University of Seoul.
- 2001** Sami J. Habib,† "Synthesis and Optimization of Application Specific Intranets," Department of Electrical Engineering (Systems), Computer Engineering Program, USC. Primary Advisor: Parker.  
Associate Professor, Department of Computer Engineering, Kuwait University.
- 2001** Shin Lee,\* "Evaluation of Policy Options to Reduce Emissions from Automobiles," Urban and Regional Planning program, School of Policy, Planning, and Development, USC.  
Associate Professor, Department of City and Regional Planning, Cardiff University, Wales, UK. [http://www.cardiff.ac.uk/cplan/staff/lee\\_s.html](http://www.cardiff.ac.uk/cplan/staff/lee_s.html)
- 1998** In-Jae Lee,† "Collective Action and Institutions in Self-governing Communities: South Korea," School of Public Administration, USC.
- 1997** Geun-Young Kim,\* "Rapid, Artificial Intelligence Estimates of Los Angeles Highway Flows: Applications to Seismic Risk Analysis and Congestion Pricing," School of Urban Planning and Development, USC.  
Associate Professor, Department of Urban Planning and Architecture, Kangnam University, Yongin, Republic of Korea.
- 1997** Steven Hung-Liang Yu,† "Equipment Acquisition Models in Manufacturing Systems," Department of Information and Operations Management, USC. Primary Advisor: Steece.

**PhD Dissertations  
Advised (continued)**

**\*indicates supervision, † indicates outside member**

- 1997** Yosef Gavriel Tirat-Gefen,† "Theory and Practice in System-Level Design of Applications Specific Heterogeneous Multiprocessors (ASHMs)," Department of Electrical Engineering (Systems), USC. Primary Advisor: Parker.  
Research Professor, Department of Physics and Astronomy, George Mason University.
- 1996** Woosuk Zhee, "A Comparative Study of Congestion Pricing in Los Angeles and Seoul, School of Urban Planning and Development, USC.
- 1996** Hoi-Kyun Choi,\* "Predicting Freeway Traffic Incident Duration in an Expert System Context Using Fuzzy Logic," School of Urban Planning and Development, USC.  
Dean of the College of Science and Engineering, Associate Professor, Department of Urban Engineering, Hyupsung University, Republic of Korea.
- 1995** Rong Xu,\* "Calibration and Sensitivity Analysis of Nonlinear Systems with Application to Gravity Models," School of Urban Planning and Development, USC.
- 1994** Chang-Hee (Christine) Bae,\* "The Income Distribution Impacts of Air Pollution Control: A Los Angeles Case Study," School of Urban and Regional Planning, USC.  
Associate Professor, Department of Urban and Regional Planning, University of Washington, Seattle.
- 1994** Enriqu e Rayon,† "When Financial Market Repression Causes Financial Market Development: The Case of Mexico," Department of Economics, USC. Primary Advisor: Nugent.  
Ceteris, San Diego.
- 1993** Jong Gook Seo,\* "A Sequential Land Use Transportation Model: The Dynamics of Regional Economic Growth and Urban Spatial Structure," School of Urban and Regional Planning, USC.  
Associate Professor, Department of Public Administration, Junior College of Inchon, Inchon, Republic of Korea.
- 1992** Mun-Hyun Kim,\* "Connectionist Models and Time Series Forecasting," School of Urban and Regional Planning, USC.  
Real Estate Research Institute (R<sup>2</sup>), Seoul, Republic of Korea.
- 1991** Kayhan K u u k aker,† "System-level Synthesis Techniques with Emphasis on Partitioning and Design Parameters," Department of Electrical Engineering (Systems), USC. Primary Advisor: Parker.  
Synopsys Corporation.
- 1991** Akram F. Masri,\* "The Design of Intelligent Planning Systems," School of Urban and Regional Planning, USC.

## Engineer Examinations

- 1989** Robert A. Kleinhenz,† "The Rise and Fall of Submetropolitan Locations of Economic Activity: A Dynamic Simulation Approach" Department of Economics, USC. Primary Advisor: Gordon.  
Chief Economist, California Association of Realtors
- 1989** Jaek-Ik Kim, "The Suburbanization of Firms with Multiple Labor Inputs: From Monocentricity to Policentricity," School of Urban and Regional Planning, USC. Primary Advisor: Gordon  
Associate Professor, Department of Urban Planning, Kemyung University, Taegu, Republic of Korea.
- 1988** Gap-Seon Hong, "Efficiency of Regulating a Housing Market Through Rent Control, with Reference to Black Markets and Administrative Costs," Department of Civil Engineering, Northwestern University. Primary Advisor: Anas.
- 1988** Habib M. Alshuwaikhat,\* "The Role of Socio-Cultural Values and Planning Policies in Urban Spatial Structure: An Alternative Approach in Urban Analysis - The Case Study of Riyadh, Saudi Arabia," Council on Urban and Regional Planning, Northwestern University.  
Associate Professor Department of City and Regional Planning, King Fahd University of Petroleum and Minerals.
- 2007** Gerald Gerkin, Engineering Management (major area), Daniel J. Epstein Department of Industrial and Systems Engineering, USC. Primary Advisor: Settles.
- 2006** John Conner, Systems Architecture and Engineering (major area) and Quality Management (minor area), Daniel J. Epstein Department of Industrial and Systems Engineering, USC.
- 2005** Siamak Nikbin, Systems Architecture and Engineering (major area) and Quality Management (minor area), Daniel J. Epstein Department of Industrial and Systems Engineering, USC.
- 1994** Lenny Anderson, Water Resources (major area) and Construction (minor area), Department of Civil Engineering, USC.

## MS Theses Advised

**\* indicates supervisor**

- 2019** Selman Ermihan, "Application of the Adaptive River Management Approach to Ayamama River in Turkey." Astani Department of Civil and Environmental Engineering, USC.
- 1996** Jean-Marc Dupasquier,\* "Traffic Congestion in the United States: A Comparison of Congestion Pricing and Intelligent Transportation System Approaches." Department of Civil and Environmental Engineering, USC.
- 1995** Chan Po Wah Keplar,\* "How Should Road Pricing be Introduced Into Hong Kong," Department of Civil and Environmental Engineering, USC.
- 1994** Steven Tsao,\* "A Cost Benefit Analysis in Metropolitan Los Angeles Public Transit Systems: A Case Study of the Los Angeles - Long Beach Blue Line Train," Department of Civil Engineering, USC.

**MS Theses Advised  
(continued)**

**\* indicates supervisor**

- 1992** William P. Pantos, "Neural Network Motor Control for a Two-Joint Manipulator," Department of Mechanical Engineering, San Diego State University.
- 1991** Fredric Gale,\* "Karatina Town: An Examination of Kenya's Rural-Urban Balance Policy," Council on Urban and Regional Planning, Northwestern University.
- 1991** Antoanela Manea, "Parameter Estimation Using Associative Memory Techniques," Department of Economics, USC.
- 1989** Chenteh Chu, "A Stability Analysis of Dynamic Network Equilibrium," Department of Industrial Engineering and Management Science, Northwestern University.
- 1988** James Harper,\* "Market Potential of Automated Guideway Transit," Department of Civil Engineering, Northwestern University.



## University Service

### University of Southern California Standing Committees

7/19-	9/19	Committee on Information Services (joint Provost / Academic Senate Committee) Removed for posing difficult questions.
11/14-	5/15	University Academic Calendar Committee (Registrar Committee)
11/12-	5/13	
11/12-	8/13	
5/11-	7/11	Online Degree Advisory Group (Associate Provost Committee)
5/03-	5/04	
6/03		Academic Senate Executive Board Elected at large, ineligible to serve due to appointment as Vice Dean At large member Committee on Selection (Committee on Committees)
9/11-	8/14	Committee on Information Services (joint Provost / Academic Senate Committee) liaison to the Academic Senate
9/08-	9/09	
7/03-	6/04	
8/10-	8/11	Committee on Probationary Deadlines (joint Provost / Academic Senate Committee)
8/05-	12/05	Chair, Faculty Handbook Committee (joint Provost / Academic Senate Committee) Academic Senate
9/00-	8/03	Representing the Viterbi School of Engineering
9/02	1/03	Committee on Nominations
9/94-	6/95	Representing the School of Urban and Regional Planning
9/97-	1/98	Special Committee on Promotion and Tenure Policy (joint Provost / Academic Senate Committee)
9/97-	1/98	Research Committee (joint Provost / Academic Senate Committee)
9/97-	1/98	Graduate Program and Studies Committee (University Committee) Social Science Panel
9/95-	9/99	Faculty Tenure and Privileges Appeals Committee (University Committee)
9/95-	9/96	Budget Advisory Committee (disbanded by the Provost for heresy, 1996)
9/91-	8/93	
9/94-	9/95	Undergraduate Studies Curriculum Committee (University Committee) Social Science Panel
9/90-	7/95	Student Behavior Appeals Panel (University Committee)

### University of Southern California Ad Hoc Committees

1/17-	present	Committee to Review Transfer Credit Practices for Overseas Studies Programs (convened by the Registrar)
12/12-	5/13	Committee on In-Class Human Subjects Research Not Rising to the attention of the Institutional Review Board (convened by the Executive Vice Provost)
9/12-	1/13	Review Committee for the USC Division of Student Affairs (convened by the Executive Vice Provost)
9/10-	1/11	Learning Management Systems (LMS) Assessment Working Group (convened by the Deputy Chief Information Officer)
2/10-	4/10	Traffic Safety Task Force
8/09-	12/09	Strategic Plan Subgroup on Athletics
4/06-	12/07	Conflict of Interest in Research Advisory Committee (convened by the Vice-

Provost for Research Advancement)

## University Service (continued)

5/05-	12/05	Intellectual Property Committee (convened by the Academic Senate)
1/00-	12/00	Computing Policies Committee (convened by the Chief Information Officer)
7/96-	9/97	Undergraduate Computer Literacy Committee (convened by Vice Provost for Academic Programs)
1/95-	12/95	Information Technology Strategic Planning Committee (convened by the Vice Provost for Computing)
1/95-	7/95	Commission on Undergraduate Professional/Liberal Arts Initiatives (convened by the Vice Provost for Academic Programs)
9/91-	7/92	Student Affairs Committee (convened by the Vice President for Student Affairs)

## Information Technology Services / Information Services Division / University Computing Services

1/03-	5/06	Strategic Information Technology Forum
7/01-	9/02	
9/01-	9/02	Blackboard/Course Info Advisory Group
9/97-	1/98	Academic Technology Advisory Committee Instructional Technology Subcommittee
9/89-	1/92	University Academic Computing Advisory Committee
9/90-	1/92	User Services Subcommittee
9/89-	5/90	Instructional Services Subcommittee

## USC Libraries

11/16-	present	Science and Engineering Library Head Search Committee
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## USC Graduate School

11/16-	present	Working Group on English Language Competency
12/08-	8/11	Graduate School Student Termination Appeal Panel

## USC Viterbi School of Engineering

5/16-	present	Schoolwide Website Rebuild Working Group
8/11-	5/16	Convener, Engineering Curriculum Committee (ECC).
8/11-	5/16	Convener, Division of Engineering Education (DEE).
7/10-	7/11	Chair, Epstein Department of Industrial and Systems Engineering Chair Search Committee
7/10-	7/11	Astani Department of Civil and Environmental Engineering Chair Search Committee
9/07-	present	Viterbi Information Technology Advisory Committee (VITAC)
6/04-	9/07	Departments Website Policy Committee
8/05-	9/06	Departments Website Template Vendor Selection Committee
9/05-	12/05	Faculty Campaign Chair, USC Good Neighbors Campaign, Viterbi School of Engineering, the Institute for Creative Technology, and the Alfred Mann Institute for Biomedical Engineering, raising \$205,000.
9/04-	12/04	
9/03-	12/03	
9/03-	8/04	Appointment, Promotions, and Tenure (APT) Committee (representing ISE) Chair

**University Service (continued)**

7/03-	8/04	As a full professor representing the Epstein ISE Department
7/99-	6/02	As an associate professor at-large representative
7/00-	8/04	Engineering Faculty Council
9/01	8/03	Chair of the Faculty of the School of Engineering (Chair of the Engineering Faculty Council)
1/00-	9/05	Computer Committee
7/01-	9/05	Co-chair
10/91-	1/92	Undergraduate Engineering Education Committee
5/00, 5/02		Merit Evaluation Review Subcommittee
1/93-	6/01	Transportation Strategic Initiatives / CATT Administration Committee

**USC Center for Risk and Economic Analysis of Terrorism Events (CREATE)**

8/03-	9/10	Economics Committee
8/03-	8/07	Organizing Committee: 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , and 4 <sup>th</sup> Summer Symposia on Terrorism and Economics

**National Center for Metropolitan Transportation Research (METRANS)**

1/05-	10/11	Organizing Committee: 1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> National Urban Freight Conferences
5/98-	7/11	METRANS Executive Committee

**USC Daniel J. Epstein Department of Industrial and Systems Engineering**

7/10	5/11	Chair, Department Chair Recruiting Committee
7/10	4/11	Chair, Appointment Committee - Carl Kesselman
7/10	9/11	Appointment Committee - Azad Madni
9/03	5/04	Chair, Appointment Committee - Sheldon Ross
9/03	5/04	Faculty Recruitment Committee
9/03	2/04	Chair, Promotion Committee - Satish Bukkapatnam
4/03, 3/04		Faculty Merit Review Committee

**USC Department of Civil and Environmental Engineering**

1/16	present	Merit Review Committee - Adjunct Lecturers
12/10	8/11	Civil and Environmental Engineering Faculty Recruiting Committee
9/07	7/10	Chair, Promotion Committee - Henry Koffman
9/06	12/07	Construction Faculty Recruiting Committee
9/01-	12/02	Ad Hoc Committee on the PhD Program
1/01-	6/01	Faculty Recruitment Committee
9/97-	12/02	Student Affairs Committee
9/98-	6/00	Strategic Planning Committee
9/97-	1/98	Undergraduate Recruitment Committee
9/96-	1/98	Grad Admissions / Scholarship Committee
9/96-	9/97	Cooperative Engineering Education Committee
1/93-	12/02	Computer Committee
9/93-	5/95	Student Affairs / Retention Committee
9/92-	9/93	Long Range Planning / Strategic Planning Committee

**University Service (continued)**

9/89- 5/94 Department of Education Fellowship Committee  
9/88- 9/92 Curriculum Committee

**USC Price School of Public Policy / School of Policy, Planning, and Development / School of Urban and Planning and Development / School of Urban and Regional Planning**

9/00- 12/00 Professional Masters Programs Committee  
9/00- 12/00 Centers Committee  
9/99- 10/11 Master of Real Estate Development Program Committee  
Master of Construction Management Subcommittee  
7/99 10/99 Tenure-track Faculty Third Year Review Committee – Cameron Gordon  
9/99- 12/99 Undergraduate Programs Committee; Quantitative Methods Subcommittee  
9/97- 12/97 Master of Planning and Development Studies (Program) Committee  
Master of Construction Management Subcommittee  
1/97- 6/97 Promotions Committee  
6/96- 9/97 International Initiatives Committee  
6/96- 9/97 Masters (Programs) Committee  
Master of Construction Management Subcommittee  
9/94 6/95 Academic Senate  
9/94- 12/95 Metrics Committee  
9/94- 6/96 Building Committee (Lewis Hall)  
1/93- 7/93  
8/93- 5/94 Architect Selection Committee (Lewis Hall)  
8/93- 9/97 Undergraduate (Program) Committee  
1/90- 8/91  
9/92- 11/93 Strategic Planning Committee  
9/91- 7/93 Ph.D. (Program) Committee  
9/90- 9/92 Budget Advisory Committee  
1/90- 9/96 Environment Committee (chair)  
9/88- 9/96 (ad hoc) Computer Committee  
1/88- 7/95 Master of Planning / Master of Science in Planning Studies Comprehensive Examination Committee (in rotation with other faculty)

1/88- present

**Current Dissertation Committees**

Internal Membership

SPP: Candace House (DPPD, chair), Brian Dollar (DPPD, Chair), Patrick Butler (DPPD, Robertson).

External Membership

ASTE: Edwin Ordoukhanian (Madni)

Other Doctoral Guidance Committees (Past and Present)

Yalda Kashe, Deanna Braulin (DPPD), Lee White, Quan Yuan, Xiaoqing Wang, Sanggyun Kang, Eun Jin Shin, Yvette Rodriguez, Xiaoqing Wang, Gerard Hollins (DPPD), Huayu Cathy Xu, Christopher Harich, Mohja Rhoads, Leeta Mohanty (DPPD), Keith Naughton (DPPD), Yingtao Ren, Kathryn Rieger, Shih-Hsin (Eve) Lin, Eric Brown, Soohyun Cho,

## University Service (continued)

Pavankumar Murali, Peter McFerrin, Erroll Southers, (DPPD), Nasser Al-Rifai, Harish Krishnaswamy, Wei Ye, Ilgaz Sungur, Hongzhong (Bill) Jia, Worawan Suteewong, Beom Soo Kim, Cesar Fuentes, Gita Ashafarian, Yannis Gounaris, Shashank Agrawal, Maria Astrakianaki, Keith Hwang, Guen-Hee Choi, Paul Ma, Gang (Jeffery) Chen, Kyuyoung Cho, Myung-Jin Jun, Hyun Lee, Jong-Gyu Lee, Yu-Chun Liao, Rhong-Sheng Luo, Hyeon Park, Jin-Chol Park, Shahab Rabbani, Hasan Ikhata, Deva Deka, Robert Guild, Somy Mukherjee, Gang Yu, Jian Lu, Anupam Bordia.

### USC Division of Student Affairs

9/05-	5/06	Faculty Observer, Board of Trustees Student Affairs Committee
5/95-	6/15	<u>Senior Tutor</u> , the Honors House Residence (2710 Severance Street).
9/92-	5/06	Lyons Center Advisory Board.
5/89-	9/94	<u>Faculty-in-Residence</u> , the Greek Honors House (729 West 28th Street).

### USC Office Campus Activities Student Organizations

		Faculty Advisor
9/16-	present	Turning Point USA at USC
9/16-	present	Trojans for Liberty/Young Americans for Liberty
9/05-	5/15	USC Students for Sensible Drug Policy
9/05-	5/15	USC Objectivist Club
5/05-	1/12	USC Student Chapter of the Institute of Industrial Engineers (IIE)
9/03-	9/11	USC Students in Free Enterprise (SIFE)

### USC Office of Student Judicial Affairs and Community Standards

9/89-	present	University Academic Integrity Review and Appeals Panel.
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### USC Office for Residential Education (formerly the Office of Residential and Greek Life)

4/13-	6/13	Committee on Residential College Strategic Directions
6/11-	9/12	Greek Life and Residential Education Communication Committee
3/10-	9/12	Greek Life and Residential Education Collaboration Committee
9/00-	2/01	Parkside Residential International College Resident Faculty Selection Committee.
9/96-	6/98	Annenberg Residential College Working Group.
9/95-	present	Nonresident Faculty Fellow, Birnkrant Residential College.
9/95-	6/96	Residence Hall Computerization Working Group.
9/94-	9/95	North Residential College Senior Commons Room Committee.
1/94-	7/94	Birnkrant Residential College Steering Committee.
9/93-	present	Nonresident Faculty Fellow, North Residential College.
9/91-	2/94	Nonresident Faculty Fellow, Embassy Residential College.
5/89-	6/15	Resident Faculty Affairs Working Group / Resident Faculty Council.

### USC Office for Fraternity and Sorority Leadership Development (formerly the Office of Residential and Greek Life)

9/07-	present	Faculty Advisor, Kappa Kappa Gamma Sorority.
9/06-	5/15	Faculty Advisor, Alpha Tau Omega Fraternity.
9/02-	5/13	Greek Organization Minimum Standards Hearing Committee.
9/94-	5/13	Fraternity/Sorority Minimum Standards Review Committee.

## University Service (continued)

- 1/89- 5/93 Faculty Advisor, Delta Chi Fraternity.  
**(Former) USC Division of Business Affairs**  
9/93- 8/95 Davidson Conference Center Advisory Board.  
**Northwestern University**  
9/86- 1/88 Faculty Associate, Lindgren Residential College.  
9/86- 1/88 Faculty Advisor, Alpha Delta Phi Fraternity.

## Professional Service

- California Transportation Foundation (CTF)**  
1/17- present Board Member, chair, various committees.  
1/10- 12/15.
- WTS International (formerly the Women's Transportation Seminar)**  
1/04- present Board Member, WTS International – Los Angeles Chapter (WTS – LA).  
7/09- 11/14 Board Member, Los Angeles Women's Transportation Scholarship Foundation (LAWTSF)
- Institute of Industrial and Systems Engineers (IISE, formerly IIE)**  
4/16- 3/17 Immediate Past President, Board of Trustees, Institute of Industrial and Systems Engineers (IISE)  
4/15- 3/16 President, Board of Trustees, Institute of Industrial Engineers (IIE)  
4/14- 3/15 President – Elect and Chief Financial Officer, Board of Trustees, Institute of Industrial Engineers (IIE)  
4/09- 3/12 Senior Vice President – Continuing Education, Board of Trustees, Institute of Industrial Engineers (IIE)  
5/09- 5/10 Past-President, Council of Industrial Engineering Department Heads (CIEADH)  
5/08- 5/09 President, Council of Industrial Engineering Department Heads (CIEADH)  
5/07- 5/08 Secretary, Council of Industrial Engineering Department Heads (CIEADH)  
5/06 Co-Organizer, CIEADH/IIE Doctoral Colloquium (with Don Taylor)  
5/05 Organizer, CIEADH/IIE Doctoral Colloquium
- Institute For Operations Research and Management Science (INFORMS)**  
1/10 - 12/10 Past-President, INFORMS Transportation Science and Logistics (TSL) Society  
1/09 - 12/09 President, INFORMS Transportation Science and Logistics (TSL) Society  
1/08 - 12/08 Vice-President, INFORMS Transportation Science and Logistics Society  
11/06 INFORMS Transportation Science and Logistics Society Sessions Cluster Co-chair (with Pablo Durango-Cohen)  
4/02- 12/07 Chair, Special Interest Group on Urban Transportation Planning Models, INFORMS Transportation Science and Logistics Society
- 9/86- present **Referee / Reviewer Activities**  
Environment and Planning A, Papers of the Regional Science Association,  
Journal of Regional Science, Socio-Economic Planning Science, Journal of Planning Education and Research, Annals of Regional Science, Urban

## Professional Service (Continued)

Studies, Review of Regional Studies, Planning and Markets; Intelligent Transportation Systems Journal, Transportation Research A, C, and E, ASCE Journal of Transportation Engineering, Transport Policy, Transportation, ITE Journal, ITE Journal of Transportation of the ITE, Journal of Transportation Statistics, Transportation Letters, Transportation Research Record, Transport-metrica, Journal of PublicTransportation;

Transactions of the Society for Computer Simulation, Annals of Operations Research, European Journal of Operations Research; Mathematical and Computer Modeling, Computer-Aided Civil and Infrastructure Engineering;

Production Planning and Control, IIE Transactions;

Construction Management and Economics, Journal of Construction Research; Public Works Management and Policy, ASCE Journal of Infrastructure Systems, ASCE Natural Hazards Review, Engineering Structures; Disasters Journal;

Reason Foundation, John D. and Catherine T. MacArthur Foundation, Irwin Press, Van Nostrand Reinhold, Kluwer Academic Press, CRC Press/Taylor Francis Group, Oxford University Press, Edward Elgar Publishing;

National Science Foundation (NSF, Geography and Regional Science Program, Civil and Mechanical Engineering Systems Program; Engineering Research Centers Program, Engineering Research Centers Program, Service Enterprise Systems Program);

National Science and Engineering Research Council of Canada;

European Commission 7<sup>th</sup> Framework Programme;

National Institute of Standards and Technology (NIST, Office of Technology Evaluation and Assessment);

Department of Housing and Urban Development (HUD);

Transportation Research Board (TRB, National Cooperative Highway Research Program, Transit Cooperative Research Program);

Council of University Transportation Centers (CUTC);

University of California Institute for Transportation Studies (ITS) / California Partners for Advanced Transportation Technology (PATH)

University of California Transportation Center (UCTC);

New England University Transportation Center (NEUTC)

Norman Y. Mineta Transportation Institute (MTI)

National Center for Metropolitan Transportation Research (METTRANS)

City University of New York (CUNY) Research Award Program;

Intelligent Transportation Society of America (ITS America);

American Collegiate Schools of Planning (ACSP);

NAACP Legal Defense and Education Fund;

California State Library Foundation;

California Department of Water Resources;

University of California at Irvine, University of California at Davis, University of Missouri at Columbia, Utah State University, University of Utah, University of Toronto, United Arab Emirates University, International City University of America, City University of New York, San Diego State University, Harvey



## Professional Service (Continued)

Mudd College, University of Minnesota, Rutgers University, Texas A&M University, Arizona State University, University of Cincinnati, Georgia Institute of Technology (Georgia Tech), University of Houston, University of South Florida, University of Pittsburg, University of Washington.

## Editorships

1/97- 12/03 *Planning and Markets* (an electronic journal, with Peter Gordon, Harry Ward Richardson, and Chris Steins)

## Editorial Board /Editorial Advisory Board Memberships

3/16- present *Korean Regional Development Association Journal (Associate Editor)*

1/04- present *IEEE Transactions on Intelligent Transportation Systems*

1/03- present *Intelligent Transportation Systems Journal*

8/2K- present *Journal of Construction Research*

3/12- 12/15 *Journal of Transportation of the ITE (Associate Editor)*

11/06- 12/17 *Public Works Management and Policy*

9/95- 8/05 *Journal of Planning Education and Research*

9/92- 8/95 *Computers and Mathematics With Applications (CAMWA)*

## External Research Committees

1/03- present TRB Committee ADB10 (formerly A1C04): Committee on Travel Behavior and Values

Sub-Committee on Time Use and Activity Patterns

1/11- present TRB Committee AHB20: Committee on Freeway Operations

1/01- 12/03 TRB Committee AT015 (formerly A1B02): Freight Transportation Planning and Logistics

Sub-committee on Socio-Economic Impacts of Freight Transportation A1B02(3)

1/00- 12/02 TRB Committee ADB30 (formerly A1C05): Committee on Transportation Network Modeling

1/99 12/07 PEER/MCEER/MAE Transportation Research Coordination Committee.

7/96- 6/03 Southern California ITS Priority Corridor Project.

9/93- 6/96 California PATH ATMIS Coordinating Council.

present

## Current Professional Affiliations

American Society of Civil Engineers (ASCE, also Los Angeles).

Institute For Operations Research & Management Science (INFORMS).

Sigma Xi

Transit Coalition.

Institute of Industrial and Systems Engineers (IISE, also Los Angeles Chapter).

International Council on Systems Engineering (INCOSE).

California Transportation Foundation (Board).

North American Regional Science

American Association of University Professors (AAUP).

INFORMS Transportation Science and Logistics Society (TSL).

Transportation Research Board (TRB)

Transportation Research Forum (TRF)

WTS-International (formerly the Women's Transportation Seminar, Los Angeles Board and Orange County Chapter).

Institute of Transportation Engineers (also Southern California Chapter).

Railway Association of Southern California.

Western Regional Science Association

Association – International (NARSAI).	(WRSA).
American Association for the Advancement of Science (AAAS).	American Society for Engineering Education (ASEE).
National Association of Scholars (NAS).	California Association of Scholars (CAS).
Free Speech Coalition.	Future of Freedom Foundation (FFF).
American Council of Trustees and Alumni (ACTA).	Foundation for Individual Rights in Education (FIRE).

1/83- present

**Lapsed or Obsolete Professional Affiliations**

Society for Industrial & Applied Mathematics (SIAM).	Intelligent Transportation Society of California (ITS-California).
Council of Industrial Engineering Academic Department Heads (CIEADH).	Foundation for Academic Standards and Traditions (FAST).
Consortium of Universities for Research in Earthquake Engineering (CUREe).	Earthquake Engineering Research Institute (EERI).*
Institute for Humane Studies (IHS).	Drug Control Reform Network (DCRNet).
Sustainable Transportation Analysis and Research (STAR).	Acton Institute for the Study of Religion and Liberty.
American Planning Association (APA, California).	California Alliance for Advanced Transportation Systems (CAATS).
American Mathematical Society (AMS).	Society for Computer Simulation (SCS).
American Real Estate and Urban Economics Association (AREUA).	Intelligent Transportation Society of America (ITS -America California Chapter).
American Land Rights Association / National Inholders Association.	International Neural Network Society (INNS).
Libertarian Party.	American Public Transit Association (APTA).
Alliance for the Separation of School and State.	Construction Specifications Institute (CSI).

## Public Service

9/10-	present	<i>Pro Bono</i> expert, Citizens for California High Speed Rail Accountability, and <i>Pro Bono</i> Expert witness, John Tos, Aaron Fukuda, and County of Kings (plaintiffs) vs. the California High Speed Rail Authority, et al (defendants), Superior Court of the State of California, County of Sacramento, Case No. 34-2011-00113919.
5/10-	present	Southern California Association of Governments Scholarship Selection Committee.
12/16-	3/17	<i>Pro Bono</i> expert, No on Measure S Campaign.
4/12-	12/12	Metro Express Lanes Business Roundtable (Villaraigosa).
3/08-	12/10	Los Angeles County Commission on Local Government Services Task Force on Transportation for Hire Services (Yaroslavsky).
6/02-	12/05	Southern California Association of Governments GIS Data Task Force.
9/96-	1/98	Los Angeles County Metropolitan Transportation Authority (MTA) Long Range Transportation Plan Academic/Environmental Focus Group.
1996		University of Southern California Neighborhood Outreach (UNO) project (with Manny Perez, Heather Halperin, and Susan Smith) "Renovation and Rehabilitation of Connection House." \$ 32,662.
1995		University of Southern California Neighborhood Outreach (UNO) project (with Bonnie Holmes) "USC/Habitat for Humanity/Koll Construction 24th Street Home." \$ 29,000.
9/94-	10/96	<i>Pro Bono</i> Expert witness, NAACP Legal Defense and Education Fund.
9/94-	7/95	Southern California Association of Governments (SCAG) VMT Measurement Evaluation Committee.
1/93-	5/94	Caltrans Division of New Technologies Freeway Service Patrol Statewide Evaluation Committee.
9/91-	8/92	Los Angeles County Transportation Commission Southwest Area Transportation Group.
1/93-	5/94	Los Angeles County Metropolitan Transportation Authority / Caltrans District 7 / California Highway Patrol Freeway Service Patrol Evaluation Subcommittee.
8/91-	5/92	
3/91 -	9/91	California State Board of Registration for Professional Engineers and Land Surveyors Ad Hoc Committee on the Registration of Engineering Faculty.

## Other Credentials

Licensed forklift operator (USC / OSHA).  
Employee Transportation Coordinator (SCAQMD, California).  
Cooperative Engineering Education Certificate (Illinois).  
Emergency Medical Technician - Ambulance (Ohio).  
Open Water SCUBA Diver (NAUI, PADI).

## Other Work in Progress

### Journal Articles

87. (third author, with Bumsoo Lee, Peter Gordon, and Harry W. Richardson) "Nonwork Travel and Trip-Chaining in Travel Behavior," to be submitted to the *Annals of Regional Science* (2013).
88. (third author, with Bumsoo Lee, Peter Gordon, and Harry W. Richardson) "The Importance of Non-work Travel in Residential Location, Land Use, and Transportation," to be submitted to \*\*\*\*\* (2012).. Presented at the 45<sup>th</sup> Annual Meetings of the Western Regional Science Association (WRSA), Santa Fe, NM, February 22-25, 2006.
89. (second author, with Geunyoung Kim) "An Economic Impact Analysis of the 2003-2004 Avian Influenza on the Korean Tour Industry," submitted to the *Korean Urban Management Association* (2011). Presented at the Fall Symposium of the Korea Planners Association, Daegu University, Daegu, Korea, October 31-November 1, 2008.
90. (second author, with Geunyoung Kim) "Economic Impacts of Air Transportation Terror Attacks on the Tour Industry of Korea: The case of 9-11," submitted to the *Journal of the Korean Society of Hazard Mitigation* (2011). Presented at the International Symposium on Sustainable Transportation for Green Growth, KINTEX, Ilsan, Korea, October 23-24, 2008.
91. (second author, with Geunyoung Kim) "Hazardous Material Transportation Accidents on the Roadways of Korea," submitted to the *Journal of the Korean Society of Hazard Mitigation* (2011). Presented at the International Symposium on Sustainable Transportation for Green Growth, KINTEX, Ilsan, Korea, October 23-24, 2008.