

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
School of Architecture and Planning
Faculty Personnel Record

Date: March, 2015

Full Name: Pericles Christopher Zegras

Department: Department of Urban Studies and Planning

1 Date of Birth: 2/9/68

2 Citizenship: U.S. Citizen
Immigration Status: NA

3 Education

School Degree	Degree	Date
MIT	PhD (Urban and Regional Planning)	2005
MIT	Master of Science (Transportation)	2001
MIT	Master of City Planning	2001
Tufts University	BA (Economics & Spanish)	1990

4 Title of Thesis for Most Advanced Degree

Sustainable Urban Mobility: Exploring the Role of the Built Environment

5 Principal Fields of Interest:

Built environment and travel behavior; Sustainable transportation planning and evaluation; Transportation policy, finance and Implementation

6 Name and Rank of Other Departmental Faculty in Same Field:

Eran Ben-Joseph, Professor; Joseph Ferreira, Professor; Ralph Gakenheimer, Professor

7 Name and Rank of Faculty of Other Departments in Same Field:

Cynthia Barnhart, Professor and Associate Dean, School of Engineering; Moshe Ben-Akiva, Professor, Civil and Environmental Engineering; Joseph Coughlin, Director, AgeLab/New England University Transportation Center; Fred Salvucci, Senior Lecturer, Civil and Environmental Engineering; Marta Gonzalez, Assistant Professor, Civil and Environmental Engineering; Yossi Sheffi, Professor, Civil and Environmental Engineering and Engineering Systems, Director, Engineering Systems Division; Joseph Sussman, Professor, Civil and Environmental Engineering and Engineering Systems; Nigel Wilson, Professor, Civil and Environmental Engineering.

8 Non-MIT Experience (including military service):

Employer	Position	Begin	End
World Bank	<u>Summer Assistant</u> Assessed developing city experience with urban transportation public-private partnerships	6/99	8/99
International Institute for Energy Conservation-Latin America	<u>Transport Program Director</u> Led program promoting energy and environmental efficiency of urban transport in Latin America	5/96	5/98
International Institute for Energy Conservation	<u>Transport Program Associate</u> Analyzed: urban transportation energy and environmental conditions in developing cities, World Bank transport lending, travel models	1/92	5/96

9 History of MIT Appointments:

Rank		Begin	End
Associate Professor	Dept. of Urban Studies and Planning (courtesy appointment in ESD)	8/10	present
Assistant Professor	Dept. of Urban Studies and Planning (courtesy appointment in ESD of 9/08)	8/05	7/10
Grad. Research Assistant/Instructor	Dept. of Urban Studies and Planning	9/02	5/05
Research Associate	Lab. for Energy and the Environment	2/01	9/02
Graduate Research Assistant	Cooperative Mobility Program	9/98	12/01

10 Consulting Record: (2001-present)

Firm/Organization	Begin	End
<u>World Bank, Carbon Finance</u> Reviewer of Colombia Market Readiness Proposal for Transport Climate Mitigation projects.	2/14	6/14
<u>World Bank, Urban Development and Resilience Unit</u> Reviewer of Guidebook on Application of "Development Incentive" Based Land Value Capture	4/13	12/13

<u>AC&A, S.A.</u> Conducted capacity building on travel demand management for young urban transport professionals for Argentinian government via World Bank project	4/10	6/10
<u>International Energy Agency</u> Prepared transportation sector analysis for Chile Energy Sector In-Depth Review	12/08	7/09
<u>Grütter Consulting</u> Developed methodology for using clean development mechanism (CDM) to reduce transport emissions via urban development in China for World Bank Carbon Finance Assist	1/07	11/08
<u>BBG Group</u> Led technical analysis of short- and medium-term greenhouse gas mitigation opportunities in Quito, Ecuador for Inter-American Development Bank	1/06	8/07
<u>Institute for Transportation and Development Policy (ITDP)</u> Conducted mid-term evaluation of ITDP's Africa Program for US AID	5/06	9/06
<u>World Bank</u> Urban transport technical advisor on transportation and construction improvement project in Honduras	7/06	7/07
<u>Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ)</u> Updated module on private sector participation for sustainable urban transportation sourcebook for developing country policy-makers	3/06	6/06
<u>World Bank</u> Reviewed Latin American urban transportation proposals to the Global Environment Facility (GEF)	1/06	2/06
<u>National Environment Fund of Perú</u> Conducted training session for local government officials on integrated land use and transportation planning and implementation	12/05	12/05
<u>United Nations Center for Regional Development</u> Provided technical assessment on the treatment of mobility and land use issues within a regional development plan for Bogotá, Colombia	10/05	12/05
<u>Institute for Transportation and Development Policy</u> Assessed alternative financing schemes for a Bus Rapid Transit project in the Mexico City Metropolitan Area	6/03	9/04
<u>International Institute for Sustainable Development</u> Evaluated transportation greenhouse gas emissions mitigation via the Clean Development Mechanism (CDM) for Canadian International Development Agency	11/02	4/05
<u>Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ)</u> Developed module on private sector participatoin for sustainable urban transportation sourcebook for developing country policy-makers	7/02	10/02
<u>World Business Council for Sustainable Development</u> Co-led transportation analyses of eight developing cities, identifying primary drivers and policy implications of future urban transportation growth	10/02	10/03

<u>Institute for Transportation and Development Policy</u>	9/01	11/01
Conducted organizational assessment and developed strategic plan		

11 Department and Institute Committees, Other Assigned Duties: (2005-present)

	Begin	End
DUSP Practicum Committee	9/05	7/10
DUSP MCP Committee	9/05	7/10
DUSP MCP Admissions (Lead, City Design and Development [CDD] Group; Participant International Development Group [IDG])	9/05	Present
DUSP PhD Program Group Admissions (Participant, CDD and IDG)	9/05	Present
CEE MST/PhD Admissions Review (Participant)	9/05	Present
MIT Portugal Program – Transportation Systems Focus Area Lead	4/07	Present
MIT Energy Initiative Campus Energy Task Force	4/07	12/09
School of Architecture and Planning, Dean’s Energy Task Force	3/07	Present
Advisory Council, Transportation@MIT Initiative	6/09	Present

12 Government and Other Outside Committees, Service, etc.:

	Begin	End
Member, Boston BRT Study Group, convened by Barr Foundation	2013	present
Member, Committee on Transportation in Developing Countries, Transportation Research Board, National Research Council	1997	2010
Member, Steering Committee, Global Environment Facility’s “Promoting Sustainable Transport in Latin America” Initiative	2006	2009
Member, Blue Ribbon Panel, Global Environment Facility Regional Sustainable Transport and Air Quality Project	11/06	1/07
Member, Scientific Committee, “Low Carbon, Competitive Cities” Project, Center for Sustainable Transport-Mexico	2009	2011
Chair, Research Advisory Panel, University of Connecticut Center for Transportation and Urban Planning	2008	2009
Research Proposal Reviewer, University Transportation Research Center 1 (U.S. Dept. of Transportation);	2006	
Research Proposal Reviewer, University of California Transportation Center	2009	

Research Proposal Reviewer, National Foundation for Science and Technology (FONDECYT) (Chile)	2006 & 2011	
Article Referee (Reviews) for: <i>Energy Policy, Environment and Planning A, Transport Policy, Environmental Management, Governance, International Journal of Environmental and Waste Management, International Journal of Sustainable Transportation, Journal of the American Planning Association, Journal of Planning Education and Research, Journal of Geographic Systems, Journal of Transport and Land Use, Local Environment, Revista de Ingeniería, Territorium, Transport Policy, Urban Geography, Transportation Research A, Urban Studies, Low Carbon Transport in Asia: Capturing Climate and Developmental Co-benefits</i> (edited volume)	2005	Present
Conference Paper Reviews for: Congreso Chileno de Ingeniería de Transporte, Panamerican Conference on Traffic and Transportation Engineering, Transportation Research Board Annual Meeting (papers for Committees: Travel Behavior and Values; Energy; Transportation in the Developing Countries; Transportation and Sustainability; Transportation and Land Development; Social and Economic Factors of Transportation), World Conference for Transportation Research, Latin American Congress for Public and Urban Transport, 7 th Virtual Cities and Territories Conference	1997	Present
Member, Cambridge Bicycle Committee	2006	2009

13 Awards Received

Award	Date
MIT Ford Career Development Professorship	2007 &2010
David C. Lincoln Fellowship in Land Value Taxation	2007
Lincoln Institute of Land Policy Dissertation Fellowship	2004
U.S. Dept. of Transportation Eisenhower Fellowship	2002
MIT Presidential Fellowship	2002

14 Current Organization Membership:

Organization	Offices or Memberships Held
American Planning Association	Member
<i>Journal of Transport and Land Use</i>	Special Issue Co-Editor

Projections, Vol. 9

Editorial Advisory Board

Transport Policy

Editorial Board Member

Transportation Research Board, Transportation in Developing Countries Committee

Member (Secretary, 1997-1998)

World Conference on Transport Research Society (WCTRS)

Member

15 Patents and Patent Applications Pending:

Travel Survey Systems and Methods, US application number 14/594,611, filed on 12 January 2015. Patent covers Future Mobility Survey (FMS) – a smartphone- and web-based transportation survey platform (with Moshe Ben-Akiva, Francisco Pereira, Fang Zhao).

16 Professional Registration:

17 Projects:

18 Symposia Organized:

MIT-Portugal Program Summer Research Workshop: SOTUR Project, Lisbon, July 6-8, 2009.
MIT-Portugal Program Research and Education Workshop: Transportation Systems Focus Area, Cambridge, September 4-5, 2008.
MIT-Portugal Program Summer Research Workshop: SOTUR, SCUSSE, CityMotion Projects, Lisbon, July 11-15, 2008.
MIT-Portugal Program Research and Education Workshop: Transportation Systems Focus Area, Cambridge, September 6-7, 2007.

19 Teaching Experience - MIT						
Term	Sub. No.	Title	Role	Enrollment	Evaluations (out of 7, unless noted)	
					Instructor	Course
F05	11.540J	Urban Transportation Planning	Professor (w/F. Salvucci, M. Murga)	18	6.1	6.1
S06	11.220	Quantitative Reasoning	Professor (w/R. Ryznar)	~60	4.8	4.1

S06	11.953	Comparative Land Use and Transportation Planning	Professor	15	6.4	6.4
Sum 06	11.307	Beijing Urban Design Studio	Professor (w/D. Frenchman, J. Wampler, J. Du)	20	n.a.	n.a.
F06	11.948	Mexico City Practicum	Professor (w/D. Davis)	13	6.1	5.9
S07	11.526	Comparative Land Use and Transportation Planning	Professor	17	6.0	6.0
S07	11.220	Quantitative Reasoning	Professor (w/R. Ryznar)	~50	4.5	3.9
F07	11.948	Mexico City Practicum	Professor (w/D. Davis)	12	n.a.*	3.8* (of 4)
F07	n.a.	Transport Planning and Performance Assess.	Professor (w/J. Viegas, P. Pinho)	10	5.0	5.3
S08	11.220	Quantitative Reasoning	Professor (w/R. Ryznar)	~35	4.5	3.9
S08	11.526	Comparative Land Use and Transportation Planning	Professor	24	6.5	6.1
F08	11.948	Cartagena City Practicum	Professor (w/M. Bonilla)	10	5.7**	5.4**
F08	n.a.	Transport Planning and Performance Assess.	Professor (w/J. Viegas, J. Abreu)	10	6.4	5.3
S09	Research Leave					
F09	11.943	Advanced Seminar in Transportation Finance	Professor	11	6.5	6.3
S10	11.526	Comparative Land Use and Transportation Planning	Professor	22	5.9	5.4
F10	Paternity Leave					
S11	11.526	Comparative Land Use and Transportation Planning	Professor	23	5.8	5.6

* Only DUSP Practica Evaluation Forms, not Institute Evaluation Forms, were available.

** Based on averages from the submitted Institute Evaluation Forms, although not "formally" compiled by the Office of Faculty Support (OFS), since course runs until end of January, 09, which is apparently too late for OFS.

Other Teaching Experience - MIT

Term	Sub. No.	Title	Role	Enrollment
S02	11.943J	Urban Transportation, Land Use, and the Environment Planning	Instructor (w/J. Sussman)	~12
S03	11.943	Santiago Urban Planning Studio	Instructor (w/T. Lee, J. DeMonchaux)	~12

20 Publications

Books

1. Keiner, M., C. Zegras, W. Schmid, D. Salmerón (Editors). 2004 *From Understanding to Action: Sustainable Urban Development in Medium-Sized Cities in Africa and Latin America*, Springer.

Papers in Refereed Journals

1. Blázquez, C., J.S. Lee, C. Zegras. 2015. "Children at Risk: A Comparison of Child Pedestrian Traffic Collisions in Santiago, Chile and Seoul, South Korea." *Traffic Injury Prevention* (accepted for publication).
2. Zhao, F., F. Pereira, R., Ball, Y. Kim, Y. Han, C. Zegras, M. Ben-Akiva. 2015. "Exploratory Analysis of a Smartphone-Based Travel Survey in Singapore." *Transportation Research Record* (accepted for publication).
3. Brakewood, C., F. Rojas, C. Zegras, K. Watkins, J. Robin, J. Sion, S. Jordan. 2015. "An Analysis of Real-Time Commuter Rail Information in Boston." *Journal of Public Transportation* (accepted for publication).
4. Jiang, Y., P.C. Zegras, D. He, Q. Mao. 2015. "Does energy follow form? The case of household travel in Jinan, China." *Mitigation and Adaptation Strategies for Global Change* (accepted for publication).
5. Zegras, C., E. Eros, K. Butts, E. Resor, S. Kennedy, A. Ching, M. Mamun. 2014. "Tracing a path to knowledge? Indicative user impacts of introducing a public transport map in Dhaka, Bangladesh." *Cambridge Journal of Regions, Economy and Society*, 8 (1), pp. 113–129.
6. Zegras, C., C. Grillo. 2014. "A Private Road to Sustainable Mobility?" *Transportation Research Record* 2450, pp. 17-25.
7. Eros, E. S. Mehndiratta, C. Zegras, K. Webb, M.C. Ochoa. 2014. "Applying the General Transit Feed Specification (GTFS) to the Global South: Experiences in Mexico City and Beyond." *Transportation Research Record* 2442, pp. 44-52.
8. Lee, J.S., C. Zegras, E. Ben-Joseph, S. Park. 2014. "Does urban living influence baby boomers' travel behavior?" *Journal of Transport Geography*, 35, pp. 21-29.
9. Lee, J.S., C. Zegras, E. Ben-Joseph. 2013. "Safely active mobility for urban baby boomers: The role of neighborhood design." *Accident Analysis and Prevention*, 61, pp. 153-166.

10. Zegras, C., J. Nelson, R. Macário, C. Grillo. 2013. "Fiscal federalism and prospects for metropolitan transportation authorities in Portugal." *Transport Policy*, 29, pp. 1-12.
11. Cottrill, C., F. Pereira, F. Zhao, I. Dias, H. B. Lim, M. Ben-Akiva, and C. Zegras. 2013. "Future Mobility Survey: Experience in Developing a Smart-Phone-Based Travel Survey in Singapore", *Transportation Research Record 2354*, pp. 59-67.
12. Goodings Swartz, P. and C. Zegras. 2013 "Strategically robust urban planning? A demonstration of concept." *Environment and Planning B*, 40, pp. 829-845.
13. Rayle, L. and Zegras, C. 2013. "The Emergence of Inter-Municipal Collaboration: Evidence from Metropolitan Planning in Portugal." *European Planning Studies*, 21(6), pp. 867-889.
14. Zegras, C. and V. Hannan. 2012. "The Dynamics of Automobile Ownership Under Rapid Growth: The Santiago de Chile Case." *Transportation Research Record 2323*, pp. 80-89.
15. Austin, A. and C. Zegras. 2012. "Taxicabs as Public Transportation in Boston, Massachusetts." *Transportation Research Record 2277*, pp. 65-74.
16. Zegras, C. and L. Rayle. 2012. "Testing the Rhetoric: An Approach to Assess Scenario Planning's Role as a Catalyst for Urban Policy Integration." *Futures*, 44, pp. 303-318.
17. Jiang, Y., C. Zegras, S. Mehndiratta. 2012. "Walk the Line: Station Context, Corridor Type and Bus Rapid Transit Walk Access in Jinan, China." *Journal of Transport Geography*, 20(1), pp. 1-14.
18. Zegras, C., J.-S. Lee, E. Ben-Joseph. 2012. "By Community or Design? Age-Restricted Neighborhoods, Physical Design and Baby Boomers' Local Travel Behavior in Suburban Boston, USA." *Urban Studies*, 49(10), pp. 2169-2198.
19. Jiang, Y., He, D., Zegras, C. 2011. "Impact of Neighborhood Land Use on Residents Travel Energy Consumption." *Urban Transport of China (In Chinese)*, 2011-4, pp. 21-29.
20. Zegras, C. 2010. "The Built Environment and Motor Vehicle Ownership and Use: Evidence from Santiago de Chile." *Urban Studies*, 47(8), pp. 1793-1817.
21. Zegras, C., Y. Chen, J. Grütter. 2009. "Behaviorally-Based Transportation Greenhouse Gas Mitigation under the Clean Development Mechanism: The Case of Transport-Efficient Development in Nanchang, China." *Transportation Research Record 2114*, pp. 38-46.
22. Napolitan, F. and C. Zegras. 2008. "Shifting Urban Priorities: The Removal of Inner City Freeways in the United States." *Transportation Research Record 2046*, pp. 68-75.
23. Zegras, C. and S. Srinivasan. 2007. "Household Income, Travel Behavior, Location and Accessibility: Sketches from Two Different Developing Contexts." *Transportation Research Record 2038*, pp. 128-138.
24. Zegras, C. 2007. "As if Kyoto Mattered: The Clean Development Mechanism and Transportation." *Energy Policy*, 35(10), pp. 5136-5150.
25. Donoso, P., F. Martínez, C. Zegras. 2006. "The Kyoto Protocol and Sustainable Cities: The Potential Use of the Clean Development Mechanism in Structuring Cities for "Carbon-Efficient" Transport." *Transportation Research Record 1983*, pp. 158-166.
26. Zegras, C. 2004. "Influence of Land Use on Travel Behavior in Santiago, Chile." *Transportation Research Record 1898*, pp. 175-182.
27. Zegras, C., J. Sussman, C. Conklin. 2004. "Scenario Planning: A Proposed Approach for Strategic Regional Transportation Planning." *Journal of Urban Planning and Development*. Vol. 130 (1), American Society of Civil Engineers, pp. 2-13.
28. Zegras, C. 2003. "Financing Transport Infrastructure in Developing Country Cities." *Transportation Research Record No. 1839*, pp. 81-88.

29. Zegras, C. 1998. "The Costs of Transportation in Santiago de Chile: Analysis and Policy Implications." *Transport Policy*, 5(1), pp. 9–21.
30. Zegras, C. and T. Litman. 1997. "Cost Estimates of Transport Air Pollution in Santiago Chile." *Transportation Research Record No. 1587*, pp. 106-112.
31. Zegras, C., D. Guruswamy and H. Malbrán. 1995. "Transport Modeling for Energy & Environment: United States Experience and Relevance to the Developing World." *Transportation Research Record 1487*, pp. 41-48.
32. Hall, S., C. Zegras, and H. Malbrán. 1994. "Transportation and Energy in Santiago, Chile." *Transport Policy*, 1(4), pp. 233–243.
33. Zegras, C. and M. Birk. 1993. "Moving Towards Integrated Transport Planning: Energy, Environment, and Mobility in Four Asian Cities." *Transportation Research Record 1441*, pp. 84-92.

Editorial/Book Reviews (non-peer review)

1. Zegras, C. 2015. "Book Review: *Transport, Climate Change and the City*." *Transport Reviews* (forthcoming).
2. Zegras, C. 2013. "Better information for service effectiveness." *Cityscapes*, Issue 3, Summer: <http://www.cityscapesdigital.net/2013/05/15/layers-of-information-which-can-be-retrofitted-on-top-of-existing-infrastructures-can-improve-mobility-and-service-effectiveness-in-cities/>.
3. Zegras, C. 2010. "Transport and Land Use in China: Introduction to the Special Issue." *The Journal of Transport and Land Use*, 3(3), Winter.

Chapters in Edited Books

1. Zegras, C., Stewart, A., Forray, R., Hidalgo, R, Figueroa, C., Duarte, F., Wampler, J. 2015. Designing BRT-oriented development: prospects in two contexts in the Americas. In (Muñoz, J.C. Paget-Seekins, L., eds) *Restructuring Public Transport through Bus Rapid Transit*, The Policy Press, University of Bristol (forthcoming).
2. Zegras, C., K. Butts, A. Cadena, D. Palencia. 2015. Spatiotemporal Dynamics in Public Transport Personal Security Perceptions: Digital Evidence from Mexico City's Periphery. *ICT for Transport: Opportunities and Threats* (P. Rietveld, M. Givoni, N. Thomopoulos, Eds) Edward Elgar (forthcoming).
3. Zegras, C. 2011. "Mainstreaming Sustainable Urban Mobility." *Urban Transport in the Developing World: A Handbook of Policy and Practice*. Edward Elgar, Cheltenham.
4. Zegras, C. 2009. "Transport." Chapter 10 in *Chile: Energy Policy Review 2009*. International Energy Agency, Paris.
5. Zegras, C. 2006. "Private Sector Participation in Urban Transport Infrastructure Provision." In *Sustainable Transport: A Sourcebook for Developing Cities*. Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ), Division 44, Environmental Management, Water, Energy, Transport.
6. Zegras, C., I. Poduje, W. Foutz, E. Ben-Joseph, O. Figueroa. 2004. "Indicators for Sustainable Urban Development." Chapter 7 in *From Understanding to Action: Sustainable Urban Development in Medium-Sized Cities in Africa and Latin America*, Springer.
7. Gakenheimer, R and Zegras, C. 2004. "Drivers of Travel Demand in Cities of the Developing World: A Synthesis of Eight Case Studies." *Mobility 2030: Meeting the Challenges to Sustainability*. World Business Council for Sustainable Development.
8. Zegras, C. and R. Gakenheimer 2003. "Carsharing in Latin America." *World Transport Policy and Practice* (J. Whitelegg, G. Haq, Eds.). Earthscan/ Stockholm Environment Institute.

9. Gakenheimer, R., L. Molina, J. Sussman, C. Zegras, A. Howitt, J. Makler, R. Lacy, R. Slott, A. Villegas. 2002. "The MCMA Transportation System: Mobility and Air Pollution." Chapter 6 in *Air Quality in the Mexico Megacity: An Integrated Assessment*. Kluwer Academic Publishers.
10. Zegras, C. and R. Gakenheimer. 2001. "Personal Mobility in the Urbanized Developing World." Chapter 4 in *Mobility 2001: World Mobility at the End of the Twentieth Century and Its Sustainability*. World Business Council for Sustainable Development, Geneva.
11. Zegras, C. 1998. "Transporte Urbano e Impactos Locales: Economía, Contaminación, Bienestar." In *Transporte Urbano y Ambiente*. Consejo Nacional del Ambiente (National Environment Council of Peru), Lima.
12. Zegras, C. 1996. "Urban Transportation." Chapter 4 in *World Resources 1996-97*. Published for World Resources Institute, UNEP/UNDP, and World Bank by Oxford University Press.
13. Contributing Author. 1996. "Mitigation Options in the Transportation Sector." In *Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analysis*. Published for Intergovernmental Panel on Climate Change (IPCC) by Cambridge University Press.

Papers in Refereed Conference Proceedings

1. Y. Xiao, D. Low, T. Bandara, P. Pathak, H. B. Lim, D. Goyal, J. Santos, C. Cottrill, F. Pereira, C. Zegras, and M. Ben-Akiva. 2012. "Transportation Activity Analysis Using Smartphones," *Proc. of the 9th IEEE Consumer Communications and Networking Conference (CCNC 2012)*.
2. Pinelli, F., A. Hou, F. Calabrese, M. Nanni, C. Zegras, C. Ratti. 2009. "Space and Time-Dependant Bus Accessibility: A Case Study in Rome." *Proceedings of the 12th International IEEE Conference on Intelligent Transportation Systems*, St. Louis, MO, October 3-7.
3. Zegras, C. 2001. "Mecanismos Financieros Aplicados al Desarrollo Urbano como Consecuencia de sus Impactos en los Sistemas de Transporte: el Caso de Santiago de Chile." In *the Actas del XI Congreso Latinoamericano de Transporte Público y Urbano*, Havana, Cuba, September.
4. Rivasplata, C. and C. Zegras. 1998. "The Role of Smart Cards in Public Transport Integration: Lessons for Santiago." In *Urban Transport Policy: A Sustainable Development Tool* (Freeman and Jamet, Eds.). Rotterdam: Balkema.
5. Zegras, C. 1997. "Los Costos Estimados de Accidentes de Tránsito en Santiago de Chile, 1994." In *Actas del Octavo Congreso Chileno de Ingeniería de Transporte* (T. Galvéz, M. Munizaga, Eds.), November.
6. Zegras, C. and D. Guruswamy. 1995. "Modelación de Emisiones de Transporte Vial en los Estados Unidos: La Práctica Corriente y Mejoramientos Necesarios." In *Actas del VII Congreso Chileno de Ingeniería de Transporte* (F. Martínez, Ed.). October.
7. Zegras, C. and W. Hook. 1995. "Transportation, Energy and Environment in Hungary: The Role of Government Policies and the World Bank." In *Proceedings of the 1995 Summer Study – European Council for an Energy Efficient Economy*.

Other Major Publications

1. Zegras, C., S. Jiang, C. Grillo. 2013. *Sustaining Mass Transit through Land Value Taxation? Prospects for Chicago*. Working paper for the Lincoln Institute of Land Policy, Cambridge, MA.
2. D. Frenchman, C. Zegras *Making the Clean Energy City in China: Year 2 Report*. 2012. MIT.
3. D. Frenchman, C. Zegras, N-Y Shin, H. Zhang, J. Zheng, Y. Jiang, J. Jiyang, Y. Chen, *Making the Clean Energy City in China: Year 1 Technical Report*, 2010. w/ MIT and Tsinghua University.

4. Browne, J., S. Winkelman, C. Zegras, E. Silsbe, E. Sanhueza. 2005. *Transportation and the Clean Development Mechanism: Experiences and Lessons from Chile*. International Institute for Sustainable Development, Winnipeg, Manitoba.
5. Editor. 2003. Santiago Urban Planning Studio: Sustainable San Joaquín. City Design and Development Group, Department of Urban Studies and Planning, MIT.
6. Gakenheimer, R. and C. Zegras. 2003. Overview of Drivers of Travel Demand in Cities of the Developing World. Report prepared for the World Business Council for Sustainable Development, Sustainable Mobility Project Phase III.
7. RAND Europe, R. Gakenheimer, C. Zegras. 2003. Passenger and Freight Transport Demand. Report for World Business Council for Sustainable Development, Sustainable Mobility Project Phase III.
8. Zegras, C. and R. Gakenheimer. 2000. Urban Growth Management for Mobility: The Case of the Santiago, Chile Metropolitan Region. Report prepared for the Lincoln Institute of Land Policy and the MIT Cooperative Mobility Program.
9. Zegras, C., J. Makler, R. Gakenheimer, A. Howitt, J. Sussman. 2000. Metropolitan Mexico City Mobility and Air Quality. Paper prepared for the MIT Integrated Program on Urban, Regional And Global Air Pollution and the Cooperative Mobility Program.
10. Menckhoff, G. and C. Zegras. 1999. Experiences and Issues in Urban Transport Infrastructure Concessions. World Bank Working Paper, TWU-38.
11. Zegras, C. and T. Litman. 1997. An Analysis of the Full Costs and Impacts of Transportation in Santiago de Chile. International Institute for Energy Conservation.
12. Zegras, C., W. Hook and T. Knecht. 1996. The World Bank and Transportation. Washington, DC. International Institute for Energy Conservation.
13. Zegras, C., D. Guruswamy, E. Miller, A. Tomazinis. 1995. Modeling Urban Transportation Emissions and Energy Use: Lessons for the Developing World. International Institute for Energy Conservation.
14. Zegras, C. and T. Semans. 1995. Shifting the Paradigm: Public Consultation on the World Bank Transport Sector Review. International Institute for Energy Conservation.
15. Birk, M. and C. Zegras. 1993. Moving Toward Integrated Transport Planning: Energy, Environment, and Mobility in Four Asian Cities. International Institute for Energy Conservation.

Conference Presentations and Posters

1. "Evolution of public transportation PPPs in Latin America: The Role of BRT in Mexico City and Santiago de Chile." 2013. 13th Thredbo International Conference Series on Competition and Ownership in Land Passenger Transport, Oxford, September (w/O. Flores).
2. "Clean Energy Urban Design in China: The Energy Proforma in Practice and Policy." 2013. Second International Workshop on Regional, Urban, and Spatial Economics in China, Beijing, June (w/D. Frenchman, J.C. Brazier).
3. "Simulation of household in-home and transportation energy use: an integrated behavioral model for estimating energy consumption at the neighborhood scale." 2013. Second International Workshop on Regional, Urban, and Spatial Economics in China, Beijing, June (w/F. Yu).
4. "A Technique for Planning Sustainable Urban Developments: Resilient and Robust Design Applied to the Singapore Housing Market." 2013. Urban Sustainable R&D Congress 2013, Singapore (w/ M. Paredes), May.

5. "The Future Mobility Survey: Experiences in and examples from developing a smartphone-based travel survey in Singapore. 2012. International Symposium of Space-time Behavior and Smart Travel & the 7th Workshop on Spatial Behavior Research and Planning, Beijing, December.
6. "Diseño urbano, seguridad del tránsito y el caminar: Baby boomers en Boston." 2012. VIII International Congress of Sustainable Transport and XIII Walk21 Congress, Mexico, October.
7. "The costs of inclusion: Incorporating existing bus and paratransit operators into Mexico City's BRT." 2012. 12th Conference on Advanced Systems for Public Transport, Santiago, April (w/O. Flores).
8. "The Dynamics of Automobile Ownership Under Rapid Growth: The Santiago de Chile Case." 2012. Annual Meeting of the Transportation Research Board, Washington, DC, January (w/ V. Hannan).
9. "The Taxicab as Public Transportation in Boston." 2012. Annual Meeting of the Transportation Research Board, Washington, DC, January (w/ A. Austin).
10. "Transportation Activity Analysis Using Smartphones." 2012 (accepted). The 9th Annual IEEE Consumer Communications and Networking Conference, Las Vegas, January (w/Y. Xiao, D. Low, T. Bandara, P. Pathak, H.B. Lim, D. Goyal, J. Santos, C. Cottrill, F. Pereira, M. Ben-Akiva).
11. "Integrated Activity-Travel Smartphone-Based Survey." 2011. 9th International Conference on Transport Survey Methods. Termas de Puyehue, Chile, November (w/ F. Pereira, C. Cottrill, M. Abou-Zeid, Y. Xiang, I Dias, J. Santos, M. Ben-Akiva, J. Abreu e Silva).
12. "La Huella de la Movilidad: Viajes, Emisiones Locales y Globales, y el Entorno Construido en Santiago de Chile." 2011. XV Chilean Congress of Transportation Engineering, University of Diego Portales, Santiago, 4 October (w/ G. Hunter).
13. "The emergence of inter-municipal collaboration in Portuguese metropolitan planning." 2011. CITTA 4th Annual Conference on Planning Research, Porto, Lisbon, 13 May (w/ L. Rayle).
14. "Does Transport Energy Follow Urban Form? An Examination of Nine Neighborhoods in Jinan, China." 2011. Annual Meeting of the Transportation Research Board, Washington, DC, January (w/Y. Jiang, R. Zhang).
15. "Telling the Future Together: Collaborative scenario planning as a potential step toward policy integration." 2011. Annual Meeting of the Transportation Research Board, Washington, DC, January (w/ L. Rayle).
16. "PPPs: A Highway to Sustainable Metropolitan Mobility?" 2011. Symposium on Public Private Partnerships in Transport: Trends & Theory, Lisbon, 12 January (w/ C. Grillo).
17. "Urban Sustainability in the Face of Uncertainty: Linking Integrated Urban Models, Scenario Planning and Performance Measurement." 2010. BETTER AIR QUALITY Conference, Singapore, Nov. 9-11 (w/ Marianne Hatzopoulou, Bruno Santos, Weifeng Li, Shan Jiang, Jae Seung Lee, Yi Zhu, Joseph Ferreira).
18. "REAL-TIME DATA: Institutional Strategies for Improving the Public Transportation Experience." 2010. BETTER AIR QUALITY Conference, Singapore, Nov. 9-11 (w/ C. Brakewood).
19. "The Dynamics of Metropolitan Motorization under Rapid Development: the Beijing Case." 2010. World Conference on Transport Research, Lisbon, Portugal, July (w/ Y. Chen).
20. "With What Concessions? The Influence of Metropolitan Highway Public-Private Partnerships on Sustainable System Management." 2010. World Conference on Transport Research, Lisbon, Portugal, July (w/ C. Grillo).

21. "Walk the Line: Station Context, Corridor Type and Bus Rapid Transit Walk Access in Jinan, China." 2010. World Conference on Transport Research, Lisbon, Portugal, July (w/ Y. Jiang and S. Mehndiratta).
22. "Research in MPP Transportation Systems (TR SYS): Structure, Process, and Main Lessons for International Inter-University Collaborative Research." 2010. World Conference on Transport Research, Lisbon, Portugal, July (w/ J. Viegas).
23. "Capturing the Value to Finance Transit Systems? Lessons from a Comparative Study of Chicago and Lisbon." 2010. TRB 4th International Conference on Surface Transportation Finance, New Orleans, May 19-21 (w/S. Jiang, L. Martínez, J.M. Viegas).
24. "The Built Environment and Transportation Greenhouse Gas Emissions in a Rapidly Developing City." 2009. Presented at the 2009 Transportation Planning, Land Use, and Air Quality Conference, Denver, July.
25. "Hacia el Federalismo Fiscal: Dificultades y desafíos en el caso del sector de transporte público portugués." 2009. Presented at the XV Latin American Congress for Public and Urban Transport, Buenos Aires, April (with J. Nelson, R. Macário).
26. "Travel Behavior of Baby Boomers in Suburban Age Restricted Communities." 2008. Presented at TRB Conference Impact of Changing Demographics on the Transportation System, Washington, DC, 27 October (with F. Hebbert, E. Ben-Joseph, J. Coughlin).
27. "El Entorno Construido y la Tenencia y Uso del Automóvil: Evidencia de Santiago de Chile." 2008. XV Congreso Panamericano de Ingeniería de Tránsito y Transporte, Cartagena, Colombia, 16 September.
28. "Data Fusion for Travel Demand Management: State of the Practice and Prospects." 2008. 4th International Symposium on Travel Demand Management, Vienna - Semmering, Austria, 17 July (with F. Pereira, A. Amey, M. Veloso, L. Liu, C. Bento, A. Biderman).
29. "Potentials and Challenges of Using Clean Development Mechanism for Transport-Efficient Development: A Case Study of Nanchang, China." 2008. Presentation at Joint ACSP-AESOP Conference, Chicago, 8 July (with Y. Chen).
30. "'Everyday Life Without a Car Would be Impossible.' A Comparative Study of Baby Boomers' Travel Behavior and Residential Preferences in Age-Restricted and Typical Suburban Neighborhoods." 2008. Poster presentation at Transportation Research Board Annual Meeting (with E. Ben-Joseph, F. Hebbert, J. Coughlin).
31. "'AS IF' Kyoto Mattered: Urban Transportation & the Clean Development Mechanism in Santiago de Chile." 2007. 11th World Conference on Transportation Research, Berkeley, June.
32. "The Built Environment and Motor Vehicle Ownership and Use: Evidence from Santiago de Chile." 2006. presented at the World Planning Schools Congress, 28 July.
33. "Sustainable Urban Mobility: Deriving and Demonstrating an Operational Definition and Metric." 2006. Presented at the National Science Foundation *New Scholars Conference on Sustainable Transport*, Indiana University, 15 May.
34. "Transportation and Air Quality in Chile: Law versus Practice." 2005. Presented at the 84th Annual Meeting of the Transportation Research Board, Washington, DC, January.
35. "Transportation Finance in Developing Cities: A View of the Mexican Mega-City." 2004. Presented at the Symposium Urban Road and Public Transit: Who Must Pay? As part of XVIIth *Entretiens Jacques Cartier*, Montreal, Quebec, 7 October.
36. "The Influence of Land Use on Travel Behavior: Empirical Evidence from Santiago de Chile." 2004. Presented at the 83rd Annual Meeting of the Transportation Research Board, Washington, DC, January.

37. "Financing Transport Infrastructure in Developing Country Cities: Evaluation of and Lessons from the Nascent Use of Impact Fees in Santiago de Chile." 2003. Presented at the 82nd Annual Meeting of the Transportation Research Board, Washington, DC, January.
38. "Scenario Planning: A Proposed Approach for Strategic Regional Transportation Planning." 2002. Presented at the Annual Meeting of the Transportation Research Board, Washington, DC, January (with J. Sussman, C. Conklin).
39. "Motorización Urbana y sus Impactos: Implicaciones para la Formación Institucional." 2001. Presented at the Scientific-Technical Meeting of CODATU (Cooperation for the Development and Improvement of Urban and Suburban Transport), Havana, Sept. With R. Gakenheimer.
40. "Buses Electricos para Santiago." 1997. Presented at the VIII Congreso Chileno de Ingeniería de Transporte, Santiago, October.
41. "Urban Transport, Health, and Environment in Santiago de Chile." 1997. Presented at the Annual Meeting of the Transportation Research Board, Washington, DC. January.
42. "Transportation Cost Analysis and Non-Motorized Transportation." 1997. Presented at the Annual Meeting of the Transportation Research Board, Washington, DC. January.
43. "Costos Estimados de Contaminación del Aire Debido a Transporte en Santiago de Chile." 1996. Presented at the IX Congreso Panamericano de Ingeniería del Tránsito y Transporte, Havan Cuba, November.
44. "Los Costos Estimados de Contaminación Atmosférica por Transporte en Santiago de Chile." 1996. Presented at the World Congress on Air Pollution in Developing Countries, San Jose, Costa Rica, October
45. "Hacia Una Estructura para el Análisis de los Costos Totales de Transporte." 1996. Presented at the VIII Congreso Latinoamericano de Transporte Público y Urbano (CLATPU), Curitiba, Brazil, April.
46. "El Transporte y Energía." 1994. Presented at the VII Congreso Latinoamericano de Transporte Público y Urbano (CLATPU), Buenos Aires, October.

Invited Lectures and Seminars

1. "Clean Energy Neighborhood Development in China: The Energy Proforma in Practice and Policy." 2013. APA Mayors Delegation, MIT Center for Real Estate, 27 September.
2. "Broader Interactions: Public Transportation and City Form." 2013. Bus Rapid Transit Workshop: Experiences and Challenges, Oxford, UK, 20 September.
3. "Developing Clean Energy Cities in China." 2013. Low Carbon Energy Leaders Program, MIT Energy Initiative, 12 September.
4. "Simulation of household in-home and transportation energy use: an integrated behavioral model for estimating energy consumption at the neighborhood scale in China." 2013. Invited Lecture at University of Los Andes, Santiago, 23 August.
5. "The Future of Transportation Infrastructure in Colombia – a Multimodal Perspective at a Regional Level." 2013. Panelist. 2nd Colombian Conference at Harvard/MIT, 26 April.
6. "Land Use-Transport Interactions: Evidence from and Implications for Urban Public Transportation Systems." 2013. Webinar, Across Latitudes and Cultures-BRT Centre of Excellence, 26 April.
7. "International Experiences on Low Carbon City Development: Inspiration for Making Clean Energy Cities in China." 2012. International Seminar on Low Carbon Cities Development in China, World Bank/National Development and Reform Commission, Tianjin, 19 June.

8. "Masa o bandada? "Flocksourcing" – un experimento digital para recolectar información sobre el transporte público en sistemas tradicionalmente análogos." 2012. Public Transport and Users: International Seminar, School of Engineering, Catholic University of Chile, 1 June.
9. "Urban public transportation finance in the United States." 2012. Gansu Delegation MIT Visit, 1 May.
10. "Sustainable Metropolitan Mobility and Urbanization: A Glimpse at Three Forces One Decade into the 21st Century." 2011. MIT Industrial Liaison Program Research and Development Conference, 17 November.
11. "Comparisons Between Chinese, European and American Scenarios on Sustainable Mobility." 2011. Panelist. Énergie & Mobilité. Conference sponsored by Total and La Tribune, Paris, 14 November.
12. "Los "Baby Boomers," sus Barrios, y sus Patronos de Viajes Locales: Evidencia del Área Metropolitana de Boston, EEUU." 2011. Invited Lecture at University of Los Andes, Santiago, 30 September.
13. "Designing Sustainable Mobility? Mitigating Transportation Greenhouse Gas Emissions in Rapidly Developing Cities." 2011. Society on Social Implications of Technology. IEEE Boston Section, 19 September.
14. "Institutional Dimensions of Sustainable Real-Time Mobility." 2011. Future Urban Mobility Workshop, Singapore, 12 January.
15. "Sustainable Metropolitan Mobility: A Carbon Imperative in the Developing World?" 2010. MIT Industrial Liaison Program Research and Development Conference, Track 3: Mobility and Transportation, 16 November.
16. "Measuring Urban Mobility Performance Across Scales, Times and Places: Examples, Challenges, Possibilities." 2010. Lecture at the Land Transport Authority Academy, Singapore, August.
17. "Towards Sustainable Urban Mobility in the 21st Century: Principles and Two Comparative Examples." 2010. Research Symposium for Spanish and Latin American Academics: Management in Public Policy: Sustainable Cities in a Globalized World, Lecture for David Rockefeller Center for Latin American Studies – Harvard University (DRCLAS) and Real Colegio Complutense, Cambridge, July.
18. "Euros vs. Green in Transportation: Implications of the economic crisis and climate change." 2010. Panel session in memory of Marvin L Manheim, Sponsored by Transport Policy, World Conference on Transport Research Lisbon, Portugal, July.
19. "Simulation of Future Scenarios and Policies Affecting Urban Regeneration: The Lisbon Case." 2010. Presentation at Third Scenario Planning Workshop, Lisbon, July (w with L. Martinez).
20. "Does Energy Follow Form? Towards a Life Cycle Analysis of Residential Neighborhoods in Jinan, China." 2010. Presentation at Low Carbon City, Low Carbon China, China Planning Network – Urbanization Summit, Nanjing, China, 22 June.
21. "Hacia Sistemas Sustentables de Movilidad Urbana en el Siglo 21: Principios Fundamentales y Ejemplos." 2010 Programa de Capacitación para Jóvenes Profesionales en Planeamiento, Regulación y Gestión Pública, del Transporte Urbano Metropolitano Noveno Seminario de Actualización, Buenos Aires, May 28.
22. "Mobility's Footprint? Transportation, the Built Environment and Greenhouse Gas Emissions in Developing Cities." 2010. Transportation@MIT, Spring 2010 Seminar Series, 6 April.

23. "Urban Regeneration: Local Factors and Driving Forces in the Cities of Coimbra, Lisbon, and Porto." 2010. presentation at Second Scenario Planning Workshop, Porto, Portugal, March.
24. "Towards Robust Strategies for Uncertain Times." 2010. Presentation at First Scenario Planning Workshop, Coimbra, Portugal, Jan.
25. "Pervasive Real-Time Mobility Data: Implications for Transportation Strategy." 2009. Pervasive real-time mobility data: Implications for transportation strategy. InMotion'09: 1st Workshop on Pervasive Technologies for Improved Mobility and Transportation, Nara, Japan, 11 May (with J. Sussman, T. Dunn).
26. "Adelantos en la Investigación del Uso de Suelo y la Movilidad." 2008. IV Congreso Internacional de Transporte Sustentable *Movilidad y Salud: de cara al futuro*, Ciudad de México, World Trade Center, 27 de octubre.
27. "Mobility & Urban Development "AS IF" Kyoto Mattered: What Role for the Clean Development Mechanism?" 2008. MIT Industrial Liaison Program *Future of Mobility* Conference, 23 September.
28. "Instrumentos Financieros y Económicos para el Manejo Sostenible de la Movilidad: Hacia Donde "se Debe" y hacia Donde se Mueven las Ciudades." 2008. Conferencia Internacional Andina sobre Movilidad Urbana Sostenible, Quito, Ecuador, 30 July.
29. "'AS IF' Kyoto Mattered: Transportation and the Clean Development Mechanism." 2008. University of Connecticut, Depts. of Geography and Civil & Environmental Engineering, Spring Graduate Transportation Seminar Series, 25 April.
30. "Mobility and Sustainable Cities." 2008. Changing Cities: Celebrating 75 Years of Planning Better Futures at MIT, 4 April.
31. "La Planificación Integrada de Transporte y el Desarrollo Urbano." 2008. Latin America Mayor's Conference, Ash Institute and John F. Kennedy School of Government, 31 March.
32. "Responsive Urban Mobility in Innovative and Sustainable Regions." 2008. *Grenoble, Digital City-Region: Innovation et conception de l'espace habité contemporain*, School of Architecture of Grenoble, France, 27 March.
33. "MIT-Portugal Program – Transportation Systems: Towards a 'Responsive Mobility.'" 2008. MIT Responsive Cities Luncheon, 27 February.
34. "Transporte Público: Hacia la Reforma." 2007. *Primer Seminario para la Modernización del Transporte*, Tegucigalpa, Honduras, 7-8 July.
35. "The Clean Development Mechanism and Transportation." 2007. Urban Climate Change Research Network: An International Symposium, Columbia University, 11 May.
36. "Regional Strategic Transportation Planning: Toward Sustainable Urban and Regional Development." 2007, MIT-Portugal Program Transportation Systems Workshop, Lisbon, 29 January.
37. "Urban Transportation, Development, and the Kyoto Protocol." 2006. MIT SPURS Luncheon Seminar, 27 November.
38. "Como Involucrar el Sector Privado en el Financiamiento de Sistemas de Transporte Sustentable." 2006. 2do Congreso Internacional de Transporte Sustentable, *Ciudades en Movimiento*, Mexico City, 17 October.
39. "Indicadores de Transporte Sustentable y Metodologías de Evaluación Antecedentes." 2006. Plenary presentation at Clean Air Initiative-Latin America, Biannual Conference, *Transporte Sustentable: Vínculos para Mitigar el Cambio Climático y Mejorar la Calidad del Aire*, sponsored by the World Bank, São Paulo, 26 July.

40. "Transportation and City Design." 2006. Invited Lecture at Tsinghua University, School of Architecture, Beijing, 30 June.
41. "Transporte y Uso de Suelo: Teoría y Ejemplos." 2005. Presented at the International Conference, *Transporte Urbano y Usos de Suelo*, organized by the Peruvian National Environment Fund (FONAM) and sponsored by the World Bank, Lima, Perú, 1 December.
42. "Aspectos Técnicos: Desde la Perspectiva de Movilidad y Uso de Suelo." 2005. Presented at the International Forum, *De las ciudades a las regiones - Desarrollo regional integrado en Bogotá – Cundinamarca*, sponsored by the United Nations Center for Regional Development (UNCRD), Bogotá, Colombia, 28 November.
43. "Evolving Metropolitan Structures and their Impact on Personal Mobility. 2005. Presented at *Critical Barriers to a Sustainable Energy Future*, Technical Meeting of the Alliance for Global Sustainability, Chalmers University, Goteborg, Sweden, 8 November.
44. "Sustainable Urban Mobility: What Role Does the Neighborhood Play? (or, Function = f(Form))?" 2005. Lincoln Institute of Land Policy Dissertation Fellowship Symposium, 7 June.
45. "Transportation Finance in the Mexico Mega-City Charting a Path towards Sustainability?" 2005. Presented at Workshop 126 *Sustainable Transport in Latin America: From Theory to Practice*, held at the Annual Meeting of the Transportation Research Board, January.
46. "Towards Sustainable Urban Mobility: Exploring the Land Use-Transportation System in Santiago de Chile." 2004. Presentation at the Conference on *Sustainability and Urban Growth in Developing Countries*, Monte Verità, Ascona, Ticino, Switzerland, 2 November.
47. "Location Efficiency and the Clean Development Mechanism (CDM): The Potential for Reducing Transportation Greenhouse Gas Emissions by Changing Patterns of Urban Development." 2004. Presentation at International Seminar on *Transportation and the Clean Development Mechanism*, sponsored by the Canadian International Development Agency, UN Economic Commission for Latin American and the Caribbean, Santiago, Chile, 25 August.
48. "*Dos Ciudades Latinoamericanas: Perspectives on and Prospects for Sustainable Urban Mobility.*" 2004. Presentation at Sustainable Urban Transportation Panel Session at the *Boston Social Forum*, U. Mass-Boston, 25 July.
49. "Hacia una San Joaquín Sustentable: Resultados del Taller de Planificación Urbana." 2004. Presentation at *Expovivienda*, Santiago, Chile, 30 April.
50. "Megacities, Developing Cities, and Sustainable Transportation." 2003. Keynote Presentation at the Innovative Transport Strategies Working Group at the Conference *Megacities III: Action Models and Strategic Solutions*. Konrad Adenauer Foundation, Schloss Eicholz, Sankt Augustin, Germany, November.
51. "Developing Country Cities: Towards a Sustainable Mobility?" 2003. Presentation at *Sustainable Mobility Meeting*, British Petroleum, London, October.
52. "Potentials for Integrating Travel Forecasting Models with Land Use & Emissions Models: Relevance to the Mexico City Project." 2002. Seminar for the MIT Integrated Program on Local, Regional and Global Air Pollution, Cambridge, May.
53. "Urban Mobility in the United States: Trends, Challenges & Where We Stand." 2002. Presented at the Working Group *The Future of Mobility – Transportation*, Annual Meeting of the Alliance for Global Sustainability (AGS), San Jose, Costa Rica, March.
54. Panel Session on Transportation and Urban Development, as part of Symposium on Transportation and Sustainability. 2002. Annual Meeting of the Transportation Research Board, Washington, DC, January.

55. "Telecommunications and Travel." 2001. Cooperative Mobility Program Sponsor Meeting, Massachusetts Institute of Technology, Cambridge, June.
56. "Transportation and Mobility." 2000. Presented at the Third US-Mexico Joint Workshop, Cuernavaca, Mexico, June.
57. "Concessions for Urban Transportation Infrastructure in Developing Countries." 1999. Presented at United Nations Environment Program (UNEP) Regional Workshop *Deals on Wheels: Sustainable Transportation Initiatives in Developing Countries*, San Salvador, El Salvador, July.
58. "Transporte, Mantenimiento, y Ciudades Sostenibles." 1997. Presented at HABITAT Seminar, Organized by Coalition of Peruvian NGOs, Lima, Perú, October.
59. "Transporte Urbano, Economía, y Medio Ambiente 1997." Presented at the IV Conferencia LAC de ONGs de Medio Ambiente Urbano, March.
60. "Transporte de Pasajeros y Medio Ambiente en Santiago de Chile." 1996. Presented at the Seminar Transporte y Medio Ambiente, National Environment Council of Peru, Lima, August.
61. "Energía y Transporte." 1996. Presented at the Segundo Taller Latinoamericano de Organizaciones no Gubernamentales Sobre Cambios Climáticos, Colonia, Uruguay, April.
62. "Sustainable Santiago: An Urban Transportation Vision." 1995. Presented at the Cooperative Housing Foundation's Workshop on Partnerships for Livable Urban Environments, Washington, DC, November.

21 Record of Research Funding

1. Strategically Adaptive Sustainable Mobility Systems. Co-PI with Abdulla Galadari (Masdar Institute). Sponsor: Masdar Institute/MIT Cooperative Program. Awarded 2013 (2 years): \$500,000.
2. Effects of Built Environment and Land Use Factors on Child Pedestrian Crashes in Santiago, Chile. Co-PI with Carola Blazquez (Univ. Andres Bello). Sponsor: MIT-Chile Seed Fund. Awarded 2012 (1 year): \$29,997.
3. Designing Bus Rapid Transit (BRT) Corridors. Co-PI with Rosanna Forray (Catholic University of Chile). Sponsor: MIT-Chile PUC Seed Fund. Awarded 2012 (1 year): \$28,187.
4. Formalized Transit Infrastructure and Affects on Public Security at Modal Transfer Stations in the Mexico City Metropolitan Area. Co-PI with Florencia Serrania (Univ. Nacional Autónoma de México). Sponsor: MIT-Mexico-ICyT Seed Fund. Awarded 2012 (1 year): \$21,780.
5. Sensing the Baby Boomers: Tracking Older Adults' Travel Behavior Using Android-Based Smartphones. Co-PI with Eran Ben-Joseph. Sponsor: New England University Transportation Center. Awarded 2011 (1 year): \$62,000.
6. Low Carbon Cities: Policy for Efficient Urban Design. From Options Assessment to Policy Implementation. Co-PI with Dennis Frenchman; Qizhi Mao (Tsinghua Univ.); Koen Steemers (Univ. Cambridge). Sponsor: Low Carbon Energy University Alliance. Awarded 2011; MIT Share (2 years): \$200,000.
7. Implementing BRT: The Institutional Dimension. Co-PI with Manuel Tironi (Catholic University of Chile). Sponsor: Volvo Centre of Excellence Bus Rapid Transit Across Latitudes and Cultures (BRT ALC). Awarded 2011; MIT Share (2+ years): \$82,000.
8. Integrated Transportation, Energy and Activity Modeling (iTEAM). Co-PI with Moshe Ben-Akiva and Francisco Pereira (Univ. of Coimbra). Sponsor: MIT Portugal Program. Awarded 2010; MIT Share (2 years): \$150,000.

9. Making the 'Clean Energy City' in China. Co-PI with Dennis Frenchman. Sponsor: China Energy Foundation. Awarded 2009 (2+ years): \$560,000.
10. Future of Urban Mobility (FM), Integrated Research Group (IRG). One of the lead developers of the overall project (awarded in F09) and one of 10 MIT PIs. Sponsor: National Research Foundation (Singapore)/Singapore MIT Alliance for Research and Technology (SMART). Awarded 2009 (5 years): \$35 million total budget; individual budget approximately (varies annually): \$550,000 *per year*.
11. Integrated Transportation and Energy Activity-Based Modeling (iTEAM). Co-PI with Moshe Ben-Akiva and Francisco Pereira (Univ. Coimbra). Sponsor MIT Portugal Program: Awarded 2009; MIT Share (2 years): \$125,000.
12. Integrated Modeling for Sustainable Metropolitan Mobility: Planning Grant. Co-PI with Moshe Ben-Akiva and Carlo Ratti. Sponsor: MIT Energy Initiative. Awarded 2009 (1 year): \$25,000.
13. Travel Behavior of the Aging Boomers: Evidence from Naturally Occurring Retirement Communities. Co-PI with Eran Ben-Joseph. Sponsor: New England University Transportation Center. Awarded 2009 (1 year): \$38,000.
14. Sustainable, well Managed, Advanced, Reliable, Technological (SMART) BRT: Planning, design, financing, implementation and operation: Planning Grant. Co-PI with J.C. Muñoz (Catholic Univ. Chile), L. Gutierrez (EMBARQ), D. Hensher (ITLS-Sydney), J. Viegas (IST-Lisbon), N. Wilson. Sponsor: Volvo Research and Education Foundation. Awarded 2009 (1 year): \$35,000.
15. Travel Behavior of the Aging Boomers: Evidence from Age-Restricted Communities (Phase III). Co-PI with Eran Ben-Joseph. Sponsor: New England University Transportation Center. Awarded 2008 (1 Year): \$55,000.
16. Sustaining Mass Transit through Land Value Capture Programs: A Case Study of Chicago. Sponsor: Lincoln Institute for Land Policy. Awarded 2008 (1 Year): \$38,000.
17. Travel Behavior of the Aging Boomers: Evidence from Age-Restricted Communities (Phase II). Co-PI with Eran Ben-Joseph. Sponsor: New England University Transportation Center. Awarded 2007 (1 Year): \$80,000.
18. China Clean Energy City. Co-PI with Dennis Frenchman. Sponsor: BP. Awarded 2007 (1 Year): \$50,000.
19. Strategic Options for Integrating Transportation Innovations and Urban Revitalization. Co-PI with Rosário Macário (IST-Lisbon), António Antunes (Univ. Coimbra), Joseph Ferreira. Sponsor: MIT Portugal Program. Awarded 2007 (3+ Years); MIT Share: \$600,000.
20. A Virtual Center of Excellence for Sustainable Transport Finance in Americas: Planning Grant. Co-PI with A. Ardila, J. Acevedo. Sponsor: Volvo Research and Education Foundation. Awarded 2007: \$35,000.
21. From Technopole to Techno-Region: Seed Grant. Sponsor: MIT-France Seed Fund. Co-PI with Catherine Maumi. Awarded 2007 (1 Year): \$15,000.
22. Metropolitan China: Clean Transportation Energy Futures. Sponsor: Alliance for Global Sustainability. Awarded 2006 (1 Year): \$35,000.
23. Gated Communities & Boomer's Travel Behavior: Evidence from Developments for the Elderly. Co-PI with Eran Ben-Joseph. Sponsor: New England University Transportation Center. Awarded 2006 (1 Year): \$70,000.
24. Gated Communities and Travel Behavior: Evidence from a Latin American Metropolis. Sponsor: MIT HASS Fund. Awarded 2006 (1 Year): \$15,000.

22 Theses Supervised

Summary			
	Total	Completed	In Progress
S.B.	2 (+1 as SB/MCP)	2 (+1 as SB/MCP)	0
S.M. (MCP, MST, MS)			
As Advisor	28 (inc. SB/MCP)	28	
As Reader	21	21	0
Ph.D			
As Advisor	2	1	1
As Reader	11	9	2

S.B. Theses

1. Miller, Ruth. Dynamic Minds in Rapid Urbanization: How External Experience Affects Opinions on Public Transportation in a Historically Rural Area, 2007 (Winner: *Best DUSP Undergrad Thesis*).
2. S. Bindman. Ridership Drivers: A Cross-City Analysis of the Factors which Influence Public Transit Use in the United States, 2013 (Winner: *Best DUSP Undergrad Thesis*).

Masters Theses, Supervisor

1. Antos, Justin, MCP. Paying for Public Transportation: The Optimal, the Actual, and the Possible, 2007 (Winner: *Best DUSP MCP Thesis*).

2. Judy, Meredith, MCP. The Potential for Bus Rapid Transit to Promote Transit Oriented Development: An Analysis of BRTOD in Ottawa, Brisbane, and Pittsburgh, 2007.
3. Napolitan, Francesca, MCP. Shifting Urban Priorities: The Removal of Inner City Freeways in the United States, 2007.
4. Warade, Ritesh, MCP/MST. The Accessibility and Development Impacts of New Transit Infrastructure: The Circle Line in Chicago, 2007 (Winner: *Ralph Adams Cram Award*).
5. Burgess, Jess, MCP. A Comparative Analysis of the Park-and-Ride/Transit-Oriented Development Tradeoff, 2008.
6. Hebbert, Francis, MCP. Local Travel Habits of Baby Boomers in Suburban Age-restricted Communities, 2008.
7. Kintala, Kumar, MCP/MST. Leveraging Bus Rapid Transit Lite for Transit Corridor Development: Springfield Avenue and Bloomfield Avenue in Newark NJ, 2008.
8. Nelson, Joshua, MCP/MST. Stuck With the Bill, But Why? An Analysis of the Portuguese Public Finance System with Respect to Surface Transportation Policy and Investments, 2008.
9. Teich, Tegin, MCP/MST. Social Change and Cycling as a Form of Sustainable Transportation: The behavior-policy interaction in a medium-sized developing city, 2008.
10. Ghauche, Anwar, MST. Integrated Transportation and Energy Activity-Based Model, 2010.
11. Rayle, Lisa, MCP/MST. Telling the Future Together: The Potential of Collaborative Scenario-Building in the Transformation of Urban Governance in Portugal, 2010.
12. Lee, Eugene, SM. Promoting Sustainable Transportation Through the Integration of Cycling with Public Transit: Lessons from Copenhagen and Munich for Singapore, 2010.
13. Rizos, Anthony, SB/MCP. Implementation of Advanced Transit Traveler Information Systems in the United States and Canada: Practice and Prospects, 2010.
14. Zhang, Jiyang, MCP. Operational Energy Consumption and GHG Emissions in Residential Sector in Urban China: an Empirical Study in Jinan, 2010.
15. Jiang, Yang, MCP/MST. Does Energy Follow Urban Form? An Examination of Neighborhoods and Transport Energy Use in Jinan, China, 2010.
16. Austin, Andrew, MCP. The Taxicab as Public Transportation in Boston, 2011.
17. Grillo, Christopher, MCP/MST. Sustainable Metropolitan Mobility and Public-Private Partnerships: A Highway to Institutional Reform? 2011.
18. Jacobi, Amy, MCP. Fiscal Federalism and its Potential Effects on Public Transportation in Mid-Sized Cities, 2012.
19. Ching, Albert, MCP. A User-Flocksourced Bus Intelligence System for Dhaka, 2012.
20. Osborne, James, MCP. Indicators that Matter: Measuring Transportation Performance in Ahmedabad, 2012.
21. Shih, Janet, MCP. Waiting for TOD: developing in the Millbrae BART Station Area, 2012.
22. Tay, Hengky, SM. Cycling Infrastructure as a First Mile Solution for Mass Transit Access in Singapore – a Study of MRT Ridership in Singapore Towns, 2012.
23. Wang, Dong, MCP. Household Operational Energy Consumption in Urban China: A Multilevel Analysis on Jinan, 2012.
24. Chen, Szu-han, MST. The Relationship between Rail Transit Ridership and Built Environment and Transportation System, 2013.

25. Cruzat, Raimundo, SM. How the Institutional Organization of Santiago affects its Capacity to Design and Apply Urban Energy Initiatives, 2013.
26. Hannan, Veronica, MCP/MST. Capturing the Impacts of Land Use on Travel Behavior: A Comparison of Modeling Approaches, 2013.
27. Humeres, Francisco, MCP. Assessing Models of Urban Structure with Non-Conventional Data Sources: Using Social Media to test the Splintering Urbanism Theory in Santiago de Chile, 2013.
28. Yu, Feifei, MST. Simulation of Household In-home and Transportation Energy Use: An Integrated Behavioral Model for Estimating Energy Consumption at the Neighborhood Scale, 2013.
29. Butts, Kuan, MCP. Design and Deploy: Iterative Methods in Adapting Mobile Technologies for Data Acquisition, A Case Study in St. Louis, Missouri, 2014.
30. Chheda, Rinal, MST. Negotiating the Neighborhood: Modeling the Relationship Between Built Environment and Transit Choice, 2014.
31. Eros, Emily, MCP. Transportation Data as Disruptive Innovation in Mexico City, 2014.
32. Holub, Amalia, MCP. Street-Level Air Quality: Exploring the Feasibility of a Cyclist-Led, Crowdsourced Map in Singapore and Mexico, 2014.
33. Li, Weixuan, MCP/MST. Modeling Household Residential Choice Using Multiple Imputation, 2014.
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