

# FELIPE TARGA

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## E D U C A T I O N

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### UNIVERSITY OF MARYLAND

*PhD. Transportation System Engineering (candidate), College Park MD, 2005*

### UNIVERSITY OF NORTH CAROLINA

*Masters of City and Regional Planning, Chapel Hill, NC 2003*  
*Graduated with Honors. Concentration: Transportation Planning*

### UNIVERSIDAD DE LOS ANDES

*B.S. Civil Engineering, Bogotá Colombia, 1998*  
*Graduated 3<sup>rd</sup> on class*

## E X P E R I E N C E

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### INTER-AMERICAN DEVELOPMENT BANK

*Washington, DC, Sept. 2004 – Present*

#### SENIOR TRANSPORT SPECIALIST

#### Transport Division, Infrastructure and Environment Sector (INE/TSP)

- Play a key role in the assessment of the economic, financial, institutional and technical feasibility of urban transport projects for national and sub-national governments.
- **Team Leader in: Colombia.** CO-L1076 Integrated Public Transit System – IPTS (US\$13m); CO-LS.n First Subway Line (estimated US\$2,500m); CO-L1096 IPTS-CTF Transformational Program (US\$180m); CO-T1146 Technical Assistance for IPTS (US\$2m); CO-T1220 Value Capture Mechanism for Mass Transit Financing (US\$1.5m); CO-T1202 Integrated Environmental Strategy for a Sustainable Urban Mobility (US\$1.2m); RG-T1798 Hybrid Bus Test Program (US\$7.2m); CO-T1200 Mainstreaming Gender Perspective in IPTS (US\$0.2m); CIF Investment Plan for CTF financing (US\$150m) (co-leader). **Chile.** CH-L1052 Transantiago Corporate Finance (US\$400m) (co-leader); CH-L1047 Public Transit Systems Reform (US\$12m); CH-N1036 Basic Infrastructure Needs for the Poor; CIF Investment Plan for CTF financing (US\$200m) (co-leader). **Mexico.** ME-L1059 Sustainable Development for Yucatan State (US\$200m) (co-leader); ME-T1135 Preparation of Merida Urban Transport Program (US\$1m). **Panama.** PN-L1057 Panama Metro Line 1 Project (estimated US\$1,500m); PN-T1075 Support for the Mass Transit System (US\$2m). **Brazil.** BR-T1047 Preparation of Porto Alegre Urban Transport Program (US\$0.7m); BR-T1085 Structuring of BRT Corridor *Expresso Metropolitano* –Rio de Janeiro (US\$1.9m). **Argentina.** AR-T1057 Preparation of Tucumán Urban Transport Program (US\$1.0m); AR-P1042 Diagnostic of Urban Transport in Argentinean Cities. **Uruguay.** UR-T1015 Preparation of Montevideo Urban Transport Program (US\$0.9m). **Dominican Republic.** DR-T1065 Integrated Feeder System to the Metro Line (US\$1.3m).
- **Team member in: Brazil.** BR-T1087 Travel Demand Studies for the High-Speed Train Line Rio de Janeiro-São Paulo (US\$1.9m); BR-L1018 Brasilia Urban Transport Program (US\$246m); **Uruguay.** UR-L1025 Montevideo Urban Transport Program (US\$100m). **Other Road and Infrastructure Projects.** AR-L1014 Norte Grande Road Infrastructure Program (US\$1,500m); HO-L1018 Logistic Corridor San Pedro Sula (US\$40m); BR-L1031 Florianópolis-Osório Highway Modernization (US\$1,300m); UR-L1022 CVU Highway Program (US\$125m); AR-L1021 Norte Grande Electricity Transmission Program (US\$725m).
- **Initiatives:** Sustainable Cities Initiative (coordinator of the Sustainable Mobility Group); Regional Environmentally Sustainable Transport (REST) Initiative (member); Road Safety Initiative (member).

#### YOUNG PROFESSIONAL PROGRAM (YPP)

Experience at the Office of Evaluation and Oversight (OVE):

- Highly involved in the Evaluation of the IDB's Projects in the Transport Sector 1995-2004, Evaluation of the Bank's Direct Private Sector Lending Program 1995-2003 (RE-303), and Evaluation of the Bank's Public Utilities Policy (OP-708). Assist in ex-post impact evaluations of rural road projects.

### UNIVERSITY OF MARYLAND

*College Park, MD Aug.03 – Aug.04*

#### GRADUATE RESEARCH ASSISTANT

- Participated in the economic impact analysis of the Intercounty Connector project (in association with the Maryland State Highway Administration).

- Developed and estimated a discrete choice model of ground transport access mode for airport travel in the Baltimore-Washington region.

**UNIVERSITY OF NORTH CAROLINA**

*Chapel Hill, NC Aug 2001 – July 2003*

**GRADUATE RESEARCH ASSISTANT**

- Analyzed travel behavior and access to information technology for San Francisco Bay Area travelers (in association with the California PATH Program; University of California at Berkeley).
- Evaluated the impacts of truck driver compensation on individual turnover and safety outcomes.
- Analyzed the effects of work zone attributes on injury severity for large truck-related crashes (in association with the Highway Safety Research Center, North Carolina).
- Studied the influence of truck driver behaviors and vehicle factors on truck rollovers and occupant injuries.

**TRIANGLE TRANSIT AUTHORITY**

*Research Triangle Park, NC, June – Aug. 2002*

**TRANSPORT PLANNING INTERN**

- Participated in the development of the Triangle Regional Transportation Model using TransCAD.
- Assisted with calibration, validation and transit coding tasks, as well as forecasting demand for the Regional Rail project (advisory team included Parsons Brinckerhoff).

**NATIONAL PLANNING DEPARTMENT (DNP)**

*Bogotá, Colombia, Nov. 1998 – July 2001*

**URBAN TRANSPORT ADVISOR**

**Office of Private Participation in Infrastructure**

- Designed one of the most advanced national urban transport policies in the region, and conceptualized the first group of Colombia's BRTs.
- Responsible for administering feasibility and demand modeling studies for multiple cities. Advise on institutional arrangements and contract structuring for the tendering process of several major urban transport projects nationwide.

**Main Projects:**

- Bogotá's First Subway Line: Member of the National Government team administering the technical, legal and financial structuring process of the Subway project with private sector participation (Build-Operate-Maintain-Transfer). National Government's team leader for the travel demand forecasting study of the Subway project. Develop a macroeconomic impact assessment of the Subway project on the national fiscal accounts (advisory team included Rothschild Investment Banking and Louis Berger International);
- Cali's Bus Rapid Transit System (MIO): National Government's team leader and coordinator of the technical committee overseeing the structuring process and travel demand forecasting of the project (advisory team included Schroders-Salomon Smith Barney, Brown & Root Consultants, Mercer Management Consulting);
- Bogotá's Bus Rapid Transit System (TransMilenio): Develop economic, financial and technical feasibility analyses for financing eligibility of the National Government in the TransMilenio project;
- Bogotá's Commuter Rail: Member of the National Government team in the technical committee of the travel demand study (advisory team included Steer Davies and Gleave);
- Other experience on transport and infrastructure projects: Oversee and administer travel demand studies and economic, financial, and technical appraisal for the development of mass transit systems in the cities of Bucaramanga, Pereira and Ibagué. Technical assistance for telecommunication (long distance), highway, and water supply projects with private sector participation.

A W A R D S & H O N O R S

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**ROTARY FELLOW**

*Rotary Foundation of Rotary International*

*Washington, DC, Dec. 2006*

**DWIGHT DAVID EISENHOWER TRANSPORTATION FELLOWSHIP**

*U.S. Department of Transportation (DOT) - Federal Highway Administration (FHWA),*

*Washington, DC, Aug. 2004*

**LOUISE VENABLE COKER AWARD**

*University of North Carolina. Recognizing an outstanding and best Masters Thesis. [Download Thesis \(pdf\)](#)*

*Chapel Hill, NC, May 2003*

**FIRST PLACE AWARD STUDENT PAPER COMPETITION**

*University of Illinois. Transport Chicago Annual Mobility Conference 2003.*

*Chicago, IL, Jun. 2003*

**JICA TECHNICAL TRAINING PROGRAM FELLOWSHIP**

*Urban Transportation Planning Division, City Bureau, Ministry of Construction*

*Tokyo, Japan. Sept. 2000 – Dec. 2000*

Participated in a three-month training program "Comprehensive Urban Transportation Planning and Project" in Japan.

## ACADEMIC EXPERIENCE

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**UNIVERSIDAD DE LOS ANDES. VISITING PROFESSOR** *Bogotá, Colombia, Summer 2003*  
Economic Appraisal of Urban Transportation Projects (45 hr). Department of Civil and Environmental Engineering

**UNIVERSIDAD DE LOS ANDES. ADJUNCT PROFESSOR** *Bogotá, Colombia, Spring 2001*  
Transportation Engineering (ICIV 340). Department of Civil and Environmental Engineering.

**UNIVERSITY OF NORTH CAROLINA. TEACHING ASSISTANT** *Chapel Hill, NC Fall 2001*  
Quantitative Methods for Planners (PLAN 130). Department of City and Regional Planning.

**UNIVERSIDAD DE LOS ANDES. TEACHING ASSISTANT** *Bogotá, Colombia Spring, 97/98*  
Urban Transportation Planning & Engineering (22340) and Geotechnics (22215). Department of Civil Engineering.

## SERVICE

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- Board member of the Institute for Transportation and Development Policy (ITDP). [www.itdp.org](http://www.itdp.org)
- Former young member of Transportation Research Board Committee on Transportation and Land Development.
- Friend of Transportation Research Board Committee on Travel Behavior and Values.
- Advisor of thesis project "Regulatory Analysis for Competitive Frameworks in Urban Public Transportation Systems; TransMilenio Case Study." Aya, C., Olarte, J. Universidad Javeriana, Bogotá, Col. 2000.

## CONSULTING EXPERIENCE

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- Formulated a national policy framework for economic appraisal of urban transport projects in Colombia (in association with *Universidad de los Andes* and SER Research Institute) [Download full \(pdf\)](#) [Download ES \(pdf\)](#)

## SKILLS

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- Several years of valuable professional work experience; knowledge of urban transport planning; travel demand modeling; economic and financial appraisal of urban transport projects; transport and land use interactions; and regional-urban economics.
- High understanding of econometrics and urban transport models.
- Outstanding communication, presentation, and interpersonal skills, as well maintaining excellent professional relations.
- Strong organizational and prioritization skills. Proven self-starter, effective working independently as well as in a team. Responsible, fast-learner, honest, reliable and creative. Work well under deadline pressures and time constraints.
- Fluent in **Spanish** (native) and **English**. Intermediate-High fluency in **Portuguese**
- Experienced working with: *TransCAD, Emme/2, Transus, HDM-VOC, STATA, SPSS, LISREL, SAS, UCINET, ArcGIS, Access, C++, Dreamweaver, Microsoft Office*

## PUBLICATIONS

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### REFEREED AND PEER REVIEWED PAPERS

- Targa, F., Clifton, K. J., Mahmassani, H. S. (2006) "Influence of Transportation Access on Individual Firm Location Decisions," *Transportation Research Record: Journal of the Transportation Research Board*, No. 1977, pp. 179-189 Transportation Research Board of the National Academies, Washington, D.C. [Download \(pdf\)](#)
- Targa, F., Clifton, K. J., Mahmassani, H. S. (2005) "Economic Activity and Transportation Access: An Econometric Analysis of Business Spatial Patterns," *Transportation Research Record: Journal of the Transportation Research Board*, No. 1932, pp. 61-71. Transportation Research Board of the National Academies, Washington, D.C. [Download \(pdf\)](#)
- Targa, F., Clifton, K. J. (2005) "Built Environment and Nonmotorized Travel: Evidence from Baltimore City Using the NHTS," *Journal of Transportation and Statistics*, Vol. 8, No. 3, pp. 55-70. Washington, D.C. [Download \(pdf\)](#)
- Targa, F., Clifton, K. J. (2004) "Integrating Social and Psychological Processes into the Land Use-Travel Behaviour Research Agenda: Theories, Concepts and Empirical Study Design," *Conference Proceedings, Seventh International Conference on Travel Survey Methods*. Los Suenos, Costa Rica, August 1-6, 2004. [Download \(pdf\)](#)
- Targa, F., Rodriguez, D. A. (2004) "Analysis of Bogotá's Bus Rapid Transit System and its Impact on Land Development," *Carolina Planning Journal*, Vol. 29, No. 1, pp. 26-36. Winter 2003-2004. [Download \(pdf\)](#)
- Targa, F., Khattak, A. J., Yim, Y.B. (2003) "Understanding Access and Acquisition of Dynamic Travel Information," *Conference Proceedings, IGERT 2003 Annual Conference*, University of California, Davis. [Download \(pdf\)](#)
- Rodriguez, D. A., Targa, F. (2004) "Value of Accessibility to Bogotá's Bus Rapid Transit System," *Transport Reviews*, Vol. 24, Issue 5, pp. 587-610, September 2004. [Download \(pdf\)](#)
- Rodriguez, D. A., Targa, F., Belzer, M. H. (2006) "Pay Incentives and Truck Driver Safety: A Case Study," *Industrial & Labor Relations Review*, Vol. 59, Number 2, pp. 205-225, January 2006. [Download \(pdf\)](#)
- Rodriguez, D. A., Targa, F., Aytur, S. (2006) "Transportation Implications of Urban Containment Policies --A study of the Largest Twenty-five US Metropolitan Areas," *Urban Studies*, Vol. 43, No. 10, pp. 1879-1897, September 2006. [Download \(pdf\)](#)

- Khattak, A. J., Targa, F. (2004) "Injury Severity and Total Harm in Truck-Involved Work Zone Crashes," *Transportation Research Record: Journal of the Transportation Research Board*, No. 1877, pp. 106-116, Transportation Research Board of the National Academies, Washington, D.C. [Download \(pdf\)](#)
- Khattak, A. J., Schneider, R. J., Targa, F. (2003) "Risk factors in Large Truck Rollovers and Injury Severity: Analysis of Single-Vehicle Collisions," *CD-ROOM Conference Proceedings*, Transportation Research Board 82nd Annual Meeting, January 2003. Washington, D.C. [Download \(pdf\)](#)

## **BOOK CHAPTERS**

- Targa, F., Sagari, S. (2006) "Reaching the Majority by Improving Access to Basic Infrastructure Services," in *Building Opportunity for the Majority*, Inter-American Development Bank, Washington, D.C. [Download \(pdf\)](#)
- Khattak, A., F. Targa, and Y. Yim, (2004) "Advanced Traveler Information Systems: Relationships to Traveler Behavior," Chapter 12 in *Assessing the Benefits and Costs of Intelligent Transportation Systems*, Kluwer Academic Publishers, Edited by D. Gillen and D. Levinson, pp. 217-240. [Download \(pdf\)](#)

## **REPORTS**

- Khattak, A. J., Rodriguez, D. A., Targa, F., Rocha, M. "Understanding the Role of Truck-Driver, Occupational and High-Risk Roadway Factors in Truck-Involved Collisions." Center for Urban and Regional Studies, The University of North Carolina at Chapel Hill. Report prepared for the Southeastern Transportation Center. September, 2003. 89 pps. CURS Report No. 2003-04. [Download \(pdf\)](#)
- Khattak, A. J., Targa, F., Yim, Y.B. Investigation of traveler information and related travel behavior in the San Francisco Bay Area. Partners for Advanced Transit and Highways, Berkeley, Calif./ California University, Berkeley, Institute of Transportation Studies. 2003. 37 p. California PATH working paper, UCB-ITS-PWP-2003-6. Report No.: 1055-1417/ UCB-ITS-PWP-2003-6. [Download \(pdf\)](#)
- Mahmassani, H.S., Clifton, K.J., Targa, F., Mitchell, C, Burnier, C, Min, Y. Economic Impact Study of the Intercounty Connector. Maryland Transportation Initiative. Final Report. University of Maryland. March 2004. [Download executive summary \(pdf\)](#)