

Coral A. Torres Cruz

PROFESSIONAL SUMMARY

Certified Engineer in Training and Transportation Sustainability Analyst with over fifteen years of experience at the U.S. Department of Transportation (USDOT) and other government agencies including the Executive Office of the President of the United States. Expertise in: field and engineering solutions, design and construction methods for sustainable transportation infrastructure, econometric and logistics analysis, freight transportation planning, transportation data analysis and data systems, environmental sustainability and technology efforts, strategic planning and performance management and, public administration.

EXPERIENCE

TRANSPORTATION INDUSTRY AND GOVERNMENT AFFAIRS ANALYST

Surface Transportation Board (STB), Washington, DC

October 2018 - Present

- Review, manage, and analyze data submitted to the STB on a weekly basis by the Class I railroads, including information related to the Chicago gateway.
- Analyze and maintain data for purposes of developing meaningful information on railroad performance relating to regions, gateways, and/or commodity groups.
- Provide both real-time and forward-looking analyses of railroad performance, to identify trends, discern potential service problems and to support broader STB regulatory actions and decision-making.
- Provide support to the Rail Customer and Public Assistance program.
- Prepare and lead briefings with STB Board members and other key rail industry stakeholders, including Congress and other agencies, on rail service disruptions, making reference to data submitted to the Board.

ESF-1 BRANCH LIAISON FOR PUERTO RICO RESPONSE AND RECOVERY EFFORTS

United State Department of Transportation (USDOT), San Juan, PR

November 2017 - January 2018

- Monitored and reported the status of damages to the transportation system and infrastructure in Puerto Rico after the aftermath of Hurricane Irma and Maria.
- Identified temporary alternative transportation (i.e. pre-fabricated bridge elements) and construction solutions for response and recovery efforts.
- Provided longer-term strategic coordination between USDOT, FEMA and PR DOT for the restoration and recovery of the transportation systems and infrastructure.
- Performed activities conducted under the direct authority of DOT elements as these relate to air, maritime, surface, rail, and pipeline transportation in order to assure service continuity.
- Managed a staff of 8 people that assisted with the assessment of federal, state and municipal roads and bridges in the island. I guided the team through effective coordination between ESF-1, FEMA Public Assistance, Environmental and Historic Preservation, Individual Assistance and Planning programs.
- Led the development of a Strategic Mitigation Plan for transportation assets in Puerto Rico which prioritizes transportation needs and provides sustainable infrastructure solutions.

TRANSPORTATION DATA ANALYST, STRATEGIC PLANNING AND PERFORMANCE MANAGEMENT LEAD

Federal Transit Administration (FTA), Washington, DC

November 2015 - September 2018

- Provided strategic guidance to the FTA Administrator and Executive Director on long-term strategies and objectives. Compiled and analyzed transit data to assess system performance and transit asset conditions.

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- Lead the formulation and development of FTA's Strategic Plan and Biennial Performance Plan.
- Developed, monitored, and reported performance measures and strategic performance plans to the Office of Management and Budget (OMB) and the Performance Improvement Council (PIC).
- Developed recommendations for Congressional inquiries regarding the condition and funding of transit assets including improved safety efforts for the Washington Metropolitan Area Transit Authority (WMATA).
- Assisted with electronic data collection, maintenance and quality control of the National Transit Database (NTD). This involved implementing quality control procedures and assurances, data edits, evaluating monthly and annual ridership and safety data products and enterprise data management efforts.
- Performed data analysis and conducted in-depth reviews in order to brief peers within the agency including senior agency leadership. This often included the formulation and development of long-range strategic plans for the agency and the Department, and annual performance plans.
- Assisted with the implementation and maintenance of automated computer-based programs such as Appian, MicroStrategy, Tableau and ArcGIS to track, analyze and, interpret NTD and other key USDOT data programs.

SENIOR SUSTAINABILITY OFFICER

White House Council on Environmental Quality (CEQ), Washington, DC

October 2016 - February 2017

- Promoted the reduction of GHG emissions in Federal facilities by developing data driven policies related to vehicle fuel efficiency and fleet management practices in Federal agencies.
- Assisted with the coordination of Federal environmental efforts and worked closely with agencies and other White House offices in the development and implementation of environmental policies and initiatives related to the Paris Agreement, Clean Power Plan and Executive Order 13693 Planning for Federal Sustainability in the Next Decade.
- Led the development of guidance for the reduction of GHG emission generated by Federal agencies by improving fuel efficiency and fleet management practices of electric and alternative fuel vehicle fleets.
- Led interagency and private sector workgroups for the identification of procurement mechanisms for purchase of zero emission vehicles, alternative fuel vehicles and vehicle charging stations.
- Ensured agencies collect and utilize agency fleet operational data through deployment of vehicle telematics at a vehicle asset level.

TRANSPORTATION SPECIALIST, FREIGHT DATA ANALYST LEAD

Federal Highway Administration (FHWA), Washington, DC

November 2012 -November 2015

- Managed the primary source for freight data at USDOT for the development of research, documentation for legislative briefings and congressional hearings, regulations, and guidelines applicable to all aspects of freight management and operations.
- Led the implementation of the FHWA/EPA Off-Hours Truck Delivery Grant Program which promoted the use of "Green Trucks" and delivery of goods during off-peak hours in urban areas in order to reduce levels of congestions and pollution. This included the collection and analysis of pollution data generated by trucks in Washington, DC and Orlando, FL.
- Led the designation of the National Highway Freight Network (NHFN) and Multimodal Freight Network (MFN). Worked with the USDOT Office of the Secretary, the Senate Environment and Public Works Committee (EPWC) and the House Transportation and Infrastructure (T&I) Committee on the designation of these networks by providing technical analysis and assisting with drafting legislation for the program. The program received \$6.2 billion in funding under the Fixing America's Surface Transportation (FAST) Act.
- Awarded a USDOT Secretary Award for extensive multimodal coordination and teamwork.

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RESEARCH AND TECHNOLOGY ENGINEER

FHWA Pennsylvania Division, Harrisburg, PA

May 2011 - November 2012

- State Planning Research and Technology Program Manager – managed multiple programs in the State of Pennsylvania, including the \$6 Million State Planning, Research and Technology program (STPR), the Truck Size and Weight program, the Highway Performance Monitoring System (HPMS) data program, the Highway Statistical Reports, the Proprietary Products program and the Local Technical Assistance Program (LTAP).

ASSISTANT AREA ENGINEER

FHWA Georgia Division, Atlanta, GA

August 2009 - May 2011

- Built and maintained relationships with federal, state and local stakeholders through various phases of project activities and to accommodate customer needs through application of sound engineering knowledge and judgment.
- Oversaw over \$70 Million of Federal-Aid funds used for planning and construction projects.
- Developed recommendations based on planning, design and NEPA reviews to make sure highway projects were completed in compliance of Federal- Aid laws and regulations in an efficient, sustainable and reliable way.
- Reviewed and approved funding for Federal highway projects.
- Assisted FHWA GA Division with complex issues within the GA Federal-Aid program, such as costly design exceptions and change orders, addressing the public concern with regards to the planning and conceptual process of Federal-Aid projects.
- Led public meetings to educate the general public about highway project planning and delivery in the State of GA.

COO, CO-FOUNDER

Green Guidance Inc., Troy, NY

November 2008 - July 2009

- Co-founder of traffic navigation software that provided users with sustainable transportation algorithm platforms. The algorithm was developed based on corridor sustainability analysis using EPA's Motor Vehicle Emission Simulator (MOVES) and other dynamic transportation algorithms.
- Conducted market research, developed business plans and secured funding from venture capitalists.
- Finalist of the 2009 MIT Entrepreneurship Competition.
- Awarded the 2010 Department of Energy Transportation Innovation Acceleration Challenge

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY

M.S. Transportation Engineering, May 2009

University of Puerto Rico, Mayaguez, PR

B.S. Civil & Environmental Engineering (Magna Cum Laude), May 2007, *Tau Beta Pi Honors*

PUBLICATIONS

- José Holguín-Veras; Coral A. Torres Cruz; Xuegang (Jeff) Ban (2010) "On the Comparative Performance of Urban Delivery" *Transportmetrica A: Transport Science*. Vol (9)1 (2013), pp. 50-73.
- Coral A. Torres Cruz; (2012) "Assessment of Externality Trade-offs Among Urban Delivery Vehicles" Annual Transportation Research Board Meeting, Session: 295, Paper: 12-1277.

JOB RELATED TRAINING

- Engineer in Training Certificate: Certificate #23961
- OSHA Occupational Safety and Health Training Course- November 2005

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- Railroad Safety Training for Rail workers- NJ Transit June 2010
- Federal-Aid 101-April 2010
- Contract Administration-April 2010
- Highway Financing-April 2010
- NEPA Basics- September 2010
- Introduction to the Area Engineer's Manual- April 2010
- Major Projects- April 2010
- Change Orders and Supplemental Agreements- April 2010
- Incorporating Freight Projects in Transportation Planning- November 2009
- Commercial Motor Vehicles: Size and Weight Enforcement Program - March 2011
- Contract Officer Representative Certification Level 2 - August 2018
- IS-35.19 FEMA Safety Orientation 2019 - September 2017
- IS-100.c Introduction to the Incident Command System - September 2017
- IS-102.c Preparing for Federal Disaster Operations: FEMA Response Partners - September 2017
- IS-200.b ICS for Single Resources and Initial Action Incidents - September 2017
- IS-293 Mission Assignment Overview - September 2017
- IS-450 Emergency Preparedness for Federal Employees - September 2017
- IS-700.b An Introduction to the National Incident Management System - September 2017
- IS-800.c National Response Framework, an Introduction - September 2017
- IS-822 Fundamentals of Management and Support Coordination of Federal Disaster Operations - September 2017
- IS-2900.a National Disaster Recovery Framework (NDRF) Overview - September 2017

AWARDS AND AFFILIATIONS

- 2013 USDOT MAP-21 Implementation Team Secretary Award
- 2009 Department of Energy Transportation Innovation Acceleration Challenge (TIAC)
- 2009 MIT Entrepreneurship Competition Finalist
- Transportation Research Board - Member
- National Association of Hispanic Federal Executives - Member
- Hispanics in Transportation - Vice-President

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