

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghauri Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu
<http://faculty.engineering.ucdavis.edu/jaller/>

EDUCATION

- 01/12–03/13 Post-Doctoral Research Associate. Rensselaer Polytechnic Institute.
- Dec–2011 Doctor of Philosophy in Transportation Engineering, Rensselaer Polytechnic Institute.
Dissertation: *“Resource Allocation Problems during Disasters: Points of Distribution Planning and Material Convergence Control.”* Advisor: José Holguín-Veras Ph.D., P.E.
- May–2011 Master of Science in Applied Mathematics, Rensselaer Polytechnic Institute.
- May–2010 Master of Engineering in Transportation Engineering, Rensselaer Polytechnic Institute.
- Sept–2006 Master of Science in Industrial Engineering. Universidad del Norte. Barranquilla, Colombia.
Thesis: *“Optimization Model of the Supply Chain of Bio-Ethanol Production Processes from Biomass derived from Yucca Root and Sugar Cane in Colombia.”* Advisor: Carlos Paternina Ph.D.
- Sept–2003 Bachelor of Science in Industrial Engineering. Graduated with Honors. Universidad del Norte. Barranquilla, Colombia.
Thesis: *“Optimization Model for the Productivity of the Plastic Injection Process at Inteco S.A.”* Advisor: Antonio Bula Ph.D.
- 2001 Industrial Management and Marketing Courses. Luleå University of Technology. Sweden.

WORK EXPERIENCE

- 08/14–Present Assistant Professor. Department of Civil and Environmental Engineering and at the Institute of Transport Studies (ITS). University of California Davis (UC Davis). Davis, CA.
- 01/13–Present International Transportation Consultant. Inter-American Development Bank (IDB).
- 01/10–Present Independent Consultant. Areas: Travel Demand Modeling; Transportation Planning and Policy; Urban Transportation; Transport Technology; City Logistics; Supply Chain Management; Geographic Information Systems; Disaster Response Planning; Disaster Risk Management. Barranquilla, Colombia.
- 06/16–07/16 International Lecturer. Universidad Nacional de Colombia (UNAL), Bogotá. Humanitarian Logistics: Engineering, Peace, and Development.
- 09/13–11/15 Sustainable Transport Specialist. Clean Air Institute (CAI).
- 04/13–08/14 Research Associate. Center for Infrastructure Transportation and the Environment. Volvo Research and Educational Foundation’s Center of Excellence on Sustainable Urban Freight Systems. Rensselaer Polytechnic Institute. Troy, NY.
- 01/12–03/13 Post-Doctoral Research Associate. Center for Infrastructure Transportation and the Environment. Volvo Research and Educational Foundation’s Center of Excellence on Sustainable Urban Freight Systems. Department of Civil and Environmental Engineering. Rensselaer Polytechnic Institute. Troy, NY.
- 08/07–11/07 Teacher Assistant. Department of Civil and Environmental Engineering. Rensselaer Polytechnic Institute. Troy, New York.
Course: Traffic Engineering. Professor: José Holguín-Veras Ph.D., P.E.
- 08/06–12/11 Graduate Research Assistant. Rensselaer Polytechnic Institute. Troy, New York.
- 07/07–07/08 Project Manager. Business Alliance (Metrotel S.A. – The Game Zone). Barranquilla, Colombia
- 01/05–08/06 Lecturer. Department of Industrial Engineering and Business Administration Program. Universidad del Norte. Barranquilla, Colombia. Courses: Operations Research I/II; Quality Control; Production’s Planning, Programming and Control; Environmental Security and Management; and Quantitative Methods and Management.
- 01/05–08/06 Co-founder/Manager. Wireless Communications (WICOM) Ltd. Barranquilla, Colombia.
- 07/04–03/05 Project Manager. Agencia de Viajes y Turismo Jaller Raad Ltd. Barranquilla, Colombia.
- 07/02–08/08 Founder/Manager. The Game Zone. Barranquilla, Colombia.

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HONORS AND AWARDS

- 2016 Recipient of the SHPE Faculty Development Institute NSF ASSIST Travel Grant.
2016 Recipient of a 2016 ASCE ExCEED Fellowship.
2015 Best Thesis Award in Humanitarian Logistics from the Humanitarian Logistics and Supply Chain Institute (HUMLOG). Hanken School of Economics. Finland, March.
2014 VREF Grant for Study Exchange. This grant from the Volvo Research and Educational's Foundations allowed research visits at three institutions: Universidad de los Andes, Bogotá; Universidad Nacional, Medellín; and Universidad del Norte, Barranquilla, Colombia.
2013 Best Paper Award. "Locating Points of Distribution in Large Urban Disasters" from the College of Humanitarian Operations and Crisis Management. 24th Production and Operations Management (POMs) Conference. Denver, CO. May, 2013.
2012 Thomas Archibald Bedford Prize from Rensselaer Polytechnic Institute for high scholastic ability and substantial contributions to the field.
2006-2011 Research Assistant Award from Rensselaer Polytechnic Institute to conduct Ph.D. studies.

RESEARCH AND PROJECT EXPERIENCE

Sustainable Freight Transportation/Logistics/ Supply Chain Management

- 10/16–Present *Evaluating the Use of Zero-Emission Vehicles in Last Mile Deliveries*
Funded by the California Department of Transportation (Caltrans) through the Public Transportation Account Funds. This project seeks to evaluate the benefits and disbenefits from using zero emission vehicles for last mile deliveries. The project will study last mile requirements, and compare them with profiles of zero emission vehicles. Moreover, it will include a comprehensive literature review and analysis of the impacts of online shopping (and the associated residential deliveries) and shopping trips; and compare the system requirements of commercial vs. residential deliveries.
- 08/16–Present *Development of a Freight System Conceptualization AND Impact Assessment (Fre-SCANDIA) Framework*
Funded by the California Department of Transportation (Caltrans). This project seeks to develop a framework to assess the impact of freight transportation projects by: developing a system conceptualization; identifying the key stakeholders and taxonomies; and evaluating the direct and indirect impacts.
- 03/16–Present *Analysis of Potential Improvements in Passenger Travel from Implementation of Freight Demand Management Programs*
Funded by the Institute of Transportation Studies at the University of California Davis. This project will analyze the travel time and environmental impacts resulting from the implementation of passenger and freight demand management programs. The research focuses on the San Francisco Bay Area.
- 01/16–Present *Sustainable Urban Freight Systems*
Funded by the Volvo Research and Educational Foundations (VREF). This project focuses on the modeling and analyses of urban freight systems. Moreover, as part of the project UC Davis researchers conduct exchange research activities with national and international researchers in the research network of Center of Excellence for Sustainable Urban Freight Systems (CoE-SUFS)
- 10/15–Present *Warehousing and Distribution Center Facilities in Southern California: The Use of the Commodity Flow Survey Microdata to Identify Logistics Sprawl and Freight Generation Patterns*
Funded by the California Department of Transportation (Caltrans). Using Commodity Flow Survey (CFS) Microdata and other Census products, the project will estimate econometric and spatial disaggregate models to characterize the amount of freight generated as a function of economic variables of the establishments.

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- 10/15–Present *DOE-ARPA-E: The Connected Traveler*
Funded by the U.S. Department of Energy, this project seeks to boost the energy efficiency of personal trips and the overall transportation system by maximizing the accuracy of predicted traveler behavior in response to real-time feedback and incentives. The proposed framework will combine transportation modeling with behavior theory, reimagining transportation as a system of travelers and decision points, rather than one of the drivers and roads.
- 01/11–06/16 *NCFRP 25 (Phases 1 and 2): Freight Trip Generation and Land Use*
Funded by the National Cooperative Freight Research Program. Development of freight generation and freight trip generation econometric models using statistical software. Using estimated models and geographic information systems and modeling tools, analyzed the relationship between freight trip generation and land use. Use of commodity flow data to analyze the selection of shipment size and frequency.
- 02/16–05/16 *Methodology to Assess the Impacts of Congestion on Supply Chains*
The key activities of this project include assessing the key features for a methodology to assess the impacts of congestion on supply chains in urban areas; and providing support to the development of the pilot phase of the methodology in various Latin American countries.
- 10/15–05/16 *White Papers on Emission Reducing Efficiency Strategies to Incorporate into the California Sustainable Freight Strategy*
Funded by the California Department of Transportation (Caltrans). Deliver actionable white papers examining freight efficiency strategies with the greatest potential to increase system efficiency, cut shipping time or costs, and reduce air pollution (include discussion of the merits, challenges, implementation mechanisms, and potential champions/sponsors.).
- 06/13–08/14 *NCFRP 44: Factors Influencing Freight Modal Shifts*
Funded by the National Cooperative Freight Research Program. This research project is aimed at understanding the factors that affect the freight mode shifts in the United States. The project will use the Commodity Flow Survey Microdata to estimate mode choice models and identify the influential factors. This project will also develop a handbook for public practitioners describing the research findings.
- 04/14–08/14 *Impacts of Freight Parking Policies in Urban Areas: The Case of New York City*
Funded by the University Transportation Research Center. I am a Co-Principal Investigator of this project that tries to understand the impacts of freight parking policies in urban areas. The analysis will be done by development micro simulation tools to understand freight parking behavior. The tool will be developed using a set of freight parking discrete choice models estimated from data collected in New York City.
- 04/14–08/14 *Development of Urban Mobility Policy for the Transport Ministry in Colombia*
Funded by the U.S. Agency for International Development (USAID). For this project I am advising about the different aspects to be considered in the new national urban mobility policy to be released by the Colombian National Government.
- 02/12–08/14 *NCFRP 38: Improving Freight System Performance in Metropolitan Areas*
Funded by the National Cooperative Freight Research Program. Analysis of national and international city logistics and urban goods movement strategies to produce a regional public planning guide to improve freight movement system performance. Development of a decision support system for planning agencies to select the optimal strategies to improve their system.
- 11/13–04-14 *Design and Development of Sustainable Policies for the Freight Transportation System in Mexico*
Funded by the Mexican Environmental and Natural Resources Department. For this project I developed general measures to quantify the benefits for the urban freight system from implementing sustainable freight transportation policies that are part of a Nationally Appropriate Mitigation Action (NAMA) plan for the country.
- 09/13– 02/14 *Design of an Integrated Strategy for the Sustainable Urban Mobility for the Metropolitan Area of the Aburrá Valley – Phase 1*
Funded by the Área Metropolitana del Valle de Aburrá planning agency. For this project I developed a methodology to assess the externalities of the transportation system in the area. In addition, I helped propose a set of sustainable public and private interventions for a comprehensive sustainable urban program.

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- 01/13–02/14 *Improvement of the City Logistics Practices in Curitiba, Brazil*
Funded by the Inter-American Development Bank. As part of this project I serve as a liaison between the bank and the consulting firm conducting the project. In addition, I provide expert support in city logistics concepts and implementation. Specifically, in the design of the methodology for the implementation of urban distribution centers for the city
- 08/06–10/13 *Integrative Freight Demand Management in the New York City Metropolitan Area*
Funded by the U.S. Department of Transportation. The research focuses on the impact of various incentives on carriers and receivers on the willingness to shift to off-hour deliveries. The analysis required the development of discrete mode choice models to understand the receptiveness of organizations to a proposed set of incentives
- 01/12–12/12 *Critical Infrastructure and Urban Mobility*
Use of travel demand models to identify critical infrastructure for the city of Medellín, Colombia. Identified the city's most critical links by modeling the impact in travel times by the reduction of capacity or disruption of a specific link in the network. In addition, analyzed the effects on other metrics such as vehicle miles traveled, and volume over capacity ratios.
- 01/09–05/10 *Feasibility Study for Freight Data Collection*
Funded by the New York Metropolitan Transportation Council (NYMTC) Analyzed different data collection techniques for freight-trip demand modeling and developed a freight trip data collection framework. Analyzed freight trip generation patterns for the NYMTC area.

Disaster Research/ Risk Management/ Disaster Behaviors/ Humanitarian Response

- 10/15–Present *Federal Highway Adaptation Plan and Recurring Natural Disasters*
Funded by the Departamento Nacional de Infraestructura de Transportes (DNIT) Brazil. This project will generate a mitigation and adaptation plan for the road infrastructure against natural and recurring disasters. As part of this project, the team is analyzing the use of the Federal Highway Administration Vulnerability Assessment Tool (VAST) as well as the Federal Emergency Management Agency HAZUS Tool for the Brazilian context.
- 09/14–Present *Disaster response to the Valparaiso Fires, Chile: Estimation of Optimal Emergency Stocks and Delivery Plans*
Coordination problems and material convergence are evident in every natural disaster. This work analyzes the first response of authorities and emergent groups during the fire of Valparaíso. The goal is to estimate the aid demand to provide guidelines to improve the response and reduce the material convergence in future events.
- 03/15–01/16 *Characterization of the Disaster Logistics Responses in the Aftermath of Natural and Technological Disasters in the Atlántico State, Colombia*
Funded by the National Royalties System of the Governor's Office in the State. This project evaluated the risk management and disaster logistics response of the different municipalities and put forward a set of recommendations to improve the different stakeholders' capabilities, including the civic society.
- 01/12–08/14 *Collaborative CDI-Type II: Cyber Enabled Discovery System for Advanced Multidisciplinary Study of Humanitarian Logistics*
Funded by the National Science Foundation (NSF). This research is aimed at developing new paradigms for humanitarian logistics modeling that explicitly incorporate deprivation costs and material convergence. This project expands the findings from my Dissertation work in terms of material convergence to disaster areas.
- 04/11–08/13 *NSF-RAPID: Field Investigation on Post-Disaster Humanitarian Logistic Practices under Cascading Disasters and a Persistent Threat: The Tohoku Earthquake Disasters*
Funded by the National Science Foundation (NSF). Analysis of the governmental and non-governmental humanitarian logistics response operations in the Tohoku region. Work included the analysis of primary and secondary information, and the use of geographic information systems. Development of recommendations for disaster response planning.

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- 02/10–05/12 *NSF-RAPID/Collaborative Research Field Investigation on the Comparative Performance of Alternative Humanitarian Logistic Structures*
Funded by the National Science Foundation (NSF). Field work and analysis of the different supply chains involved in disaster relief activities after the 2010 Haiti's earthquake. Three main types of logistics structures were identified: Agency Centric Efforts, Partially Integrated Efforts, and Collaborative Aid Networks.
- 01/07–02/12 *NSF-HSD/DRU: Contending with Materiel Convergence: Optimal Control, Coordination, and Delivery of Critical Supplies to the Site of Extreme Events*
Funded by the National Science Foundation. Analysis of the material convergence problem. The field work and research conducted indicates that, after disasters, material convergence brings much needed supplies, but also large percentage of low priority content.
- 08/06–05/07 *SGER: Characterization of the Supply Chains in the Aftermath of an Extreme Event: The Gulf Coast Experience*
Funded by the National Science Foundation (NSF). Analysis of the humanitarian supply chains, their characteristics, and challenges after Hurricane Katrina. The project also introduces a number of policy recommendations for the improvements of disaster response operations.

PUBLICATIONS IN REFEREED JOURNALS

- 2016 Holguín-Veras, J., N. Xu, M. Jaller, and J. Mitchell. A Dynamic Spatial Price Equilibrium Model of Integrated Production-Transportation Operations Considering Freight Tours. *Transportation Science*. <http://dx.doi.org/10.1287/trsc.2015.0616>. (50)2:489-519
- 2016 Jaller, M., S. Sánchez, J. Greene, and M. Fandiño. Quantifying the Impacts of Sustainable City Logistics Strategies in the Mexico City Metropolitan Area. *Transportation Research Procedia*. (12):613-626
- 2016 Holguín-Veras, J., J. Amaya-Leal, V. Cantillo, L. Van Wassenhove, F. Aros-Vera, and M. Jaller. Econometric Estimation of Deprivation Cost Functions: A Contingent Valuation Experiment. *Journal of Operations Management (JOM)*. <http://dx.doi.org/10.1016/j.jom.2016.05.008>
- 2015 Jaller, M., I. Sanchez, and J. Holguín-Veras. Identifying Freight Intermediaries: Implications for Freight Trip Generation Modeling. *Transportation Research Record (TRR), Journal of the Transportation Research Board*. (2478): 48-56.
- 2015 Jaller, M., C. González-Calderón, W. Yushimito, and I. Sánchez. An Investigation of the Effects of Critical Infrastructure on Urban Mobility in the City of Medellin. *International Journal of Critical Infrastructures (IJCIS)*. 18(3), 213-232.
- 2015 Jaller, M., X. Wang, and J. Holguín-Veras. Large Urban Freight Traffic Generators: Opportunities for City Logistics Initiatives. *Journal of Transport and Land Use (JTLU)*, 8.1, 1–17.
- 2014 Cantillo, V., M. Jaller, and J. Holguín-Veras. The Colombian Strategic Freight Transport Model Based on Product Analysis. *PROMET - Traffic&Transportation*. 26(6), 487-496.
- 2014 Holguín-Veras, J., E. Taniguchi, M. Jaller, F. Aros-Vera, F. Ferreira, and R. Thompson. The Tohoku Disasters: Chief Findings Concerning the Post Disaster Humanitarian Logistics Response. *Journal of Transportation Research Part A: Policy and Practice*. 69:86-104
- 2014 Holguín-Veras, J., M. Jaller, L. Van Wassenhove, N. Perez and, T. Wachtendorf. Material Convergence: An Important and Understudied Disaster Phenomenon. *ASCE's Journal Natural Hazards Review*. February, 15(1):1-12.
- 2013 Jaller, M., J. Holguín-Veras, and S. Hodge. Parking in the City: Challenges for Freight Traffic. *Transportation Research Record (TRR), Journal of the Transp. Research Board*. (2379): 46-56.
- 2013 Jaller, M., and J. Holguín-Veras. Comparative Analyses of the Stated Behavioral Responses to Off-Hour Delivery Policies. *Transportation Research Record (TRR), Journal of the Transportation Research Board*. (2379): 18-28.

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- 2013 Holguín-Veras, J., N. Perez, M. Jaller, L. Van Wassenhove, and F. Aros-Vera. On the Appropriate Objective Function for Post-Disaster Humanitarian Logistics Models. *Journal of Operations Management (JOM)*. 31(5):262-280.
- 2013 Holguín-Veras, I. Sánchez-Díaz, C. Lawson, M. Jaller, S. Campbell, and H. Levinson. Transferability of Freight Trip Generation Models. *Transportation Research Record (TRR)*, Journal of the Transportation Research Board. (2379): 1-8.
- 2013 Holguín-Veras, J., R. Marquis, S. Campbell, J. Wojtowicz, X. Wang, M. Jaller, S. Hodge, S. Rothbard, and R. Goevaers. Fostering the Use of Unassisted Off-Hour Deliveries: Operational and Low Noise Truck Technologies. *Transportation Research Record (TRR)*, Journal of the Transportation Research Board. (2379): 56-63.
- 2012 Holguín-Veras, J., M. Jaller, N. Perez, L. Van Wassenhove and, T. Wachtendorf. On the Unique Features of Humanitarian Logistics. *Journal of Operations Management (JOM)*. 30(7-8):494-506.
- 2012 Holguín-Veras, J., M. Jaller, and T. Wachtendorf. Comparative Performance of Alternative Humanitarian Logistic Structures after the Port au Prince Earthquake: ACEs, PIEs, and CANs. *Journal of Transportation Research Part A: Policy and Practice*. 46(10): 1623-1640.
- 2012 Lawson, C., J. Holguín-Veras, I. Sanchez, M. Jaller, and S. Campbell. Estimated Generation of Freight Trips Based on Land Use. *Transportation Research Record (TRR)*, Journal of the Transportation Research Board. (2269): 65-72.
- 2012 Holguín-Veras, J., and M. Jaller. Immediate Resource Requirements after Hurricane Katrina. American Society of Civil Engineers. *Natural Hazards Review*. March, 12(2): 117-131.
- 2012 Yushimito, W., M. Jaller, and S. Ukkusuri. Facility Location in Disasters: Voronoi-Based Heuristic Algorithm with Application to Hurricane Katrina. *Journal of Network and Spatial Economics*. March, 12(1): 21-39.
- 2011 Holguín-Veras, J., M. Jaller, L. Destro, X. Ban, C. Lawson, and H. Levinson. Freight Generation, Freight Trip Generation, and the Perils of Using Constant Trip Rates. *Transportation Research Record (TRR)*, Journal of the Transportation Research Board. (2224): 68-81.
- 2010 Paternina C., M. Jaller, and Y. Donoso. Application of Evolutionary Algorithm Techniques in Multi-Objective Optimization of the Plastic Injection Process. *Revista Internacional de Investigación de Operaciones*. ISSN: 2145-9517, 1: 40 – 48.

BOOK CHAPTERS

- 2016 Holguín-Veras, J., M. Jaller, F. Aros-Vera, J. Amaya, T. Encarnación and T. Wachtendorf. Disaster Response Logistics: Chief Findings of Fieldwork Research. *Advances in Managing Humanitarian Operations*. Altay, G. (ed). Springer. Pp. 33-57.
- 2014 Holguín-Veras, J., I. Sánchez-Díaz, M. Jaller, F. Aros-Vera, S. Campbell, C. Wang, and S. Hodge. Off-Hour Delivery Programs. *City Logistics: Mapping The Future*. E. Taniguchi and R. Thomson (eds). CRC Press, Taylor & Francis Group, Boca Raton, Fl.
- 2014 Holguín-Veras, J., and M. Jaller. Comprehensive Freight Demand Data Collection Framework for Large Urban Areas. *Sustainable Urban Logistics: Concepts, Methods and Information Systems*. J. González-Feliu, F. Semet, and J.L. Routhier (eds.), EcoProduction, DOI: 10.1007/978-3-642-31788-0_6, Springer-Verlag Berlin Heidelberg.
- 2013 Holguín-Veras, J., M. Jaller, I. Sánchez-Díaz, S. Campbell, and C. Lawson. Freight Generations and Trip Generation Models. *Freight Transport Modeling*. L. Tavasszy and G. de Jong, eds. Elsevier. London, UK, Waltham, MA, USA.
- 2013 Holguín-Veras, J., C. Gónzales-Calderón, I. Sánchez-Díaz, M. Jaller, and S. Campbell. Vehicle-Trip Estimation Models. *Freight Transport Modeling*. L. Tavasszy and G. de Jong, eds. Elsevier. London, UK, Waltham, MA, USA.
- 2013 Holguín-Veras, J., T. Wachtendorf, M. Jaller, and T. Jefferson. Logistics and the Management of Critical Supplies following Catastrophes. *Preparedness and Response to Catastrophic Disasters*. Rick Bissell, ed. CRC Press. Boca Raton, Fl.

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- 2012 Gónzales-Calderón, C., M. Jaller, and I. Sánchez-Díaz. Innovative Use of Technologies for Parking Management at University Campuses. *Innovative Ways of Knowledge Representation and Management*. Guillermo González, ed. 2012 Universidad de Medellín, Colombia.

PAPERS UNDER REVIEW

- 201- Jaller, M., D. Phong, and L. Pineda. Critical Review of the Logistics Performance Index (LPI): A Spatial Regression Analysis. *Journal of Transport Geography* (Received 1st round of reviews)
- 201- Jaller, M., L. Pineda, and D. Phong. Spatial Analysis of Warehouses and Distribution Centers in Southern California. *Transportation Research Record (TRR)*, Journal of the Transportation Research Board. (1st round of reviews)
- 201- Caldas, M. and M. Jaller, Measuring and Incorporating Regional and National Socio-Economic Benefits in Evaluating Freight Transport Projects in Developing Countries. *Journal of Sustainable Transportation*.
- 201- Jaller, M., J. Penagos, M. del Castillo, D. Suero, P. Pedroza, and N. Calderón. Application of the Capability Maturity Model to Assess the Risk Management and Disaster Response Capabilities of a Region in a Developing Country. *ASCE's Journal Natural Hazards Review*. (1st round of reviews).
- 201- Iliopoulou, C., M. Jaller, and H.M. Zhang. Transit Network Design using Hybrid Population Based Optimization. *Network and Spatial Economics*. (1st round of reviews).
- 201- Cantillo, V., L. Macea, and M. Jaller. Stochastic Vulnerability Analysis of Transportation Networks Considering Deprivation Costs. *Network and Spatial Economics*.
- 201- Jaller, M. and F. Alemi. The Need for a Comprehensive Demand Management Strategy that Considers both Passenger and Freight: Mitigating the Impact of Passenger Induced Demand. Presented at the Transportation Research Board Annual Meeting. Transportation Research Part A: *Journal of Transportation Research Part A: Policy and Practice*. (1st round of reviews).
- 201- Jaller, M., J. Penagos, M. del Castillo, D. Suero, P. Pedroza, and N. Calderón. Analysis of Disaster Risk and Response Management Capabilities in the Atlantico State. *VisionSy Journal*.
- 201- Ambrose, H. and M. Jaller. Electrification of Drayage Trucks: On Track for a Sustainable Freight Path. *Transportation Research Record (TRR)*, Journal of the Transportation Research Board.
- 201- Jaller, M., P. Guerrero, and S. Demarchi. Challenges and Improvement Opportunities for the Urban Freight System in Curitiba. *TRB 94th Annual Meeting and Transportation Research Record (TRR)*, Journal of the Transportation Research Board. Accepted for Presentation.
- 201- Holguín-Veras, J., X. Wang, S. Hodge, S. Campbell, I. Sánchez-Díaz, R. Marquis, M. Jaller, S. Rothbard, and J. Wojtowicz. Unassisted Off-Hour Deliveries and Their Potential Role in Freight Transportation demand Management: Results from an Attitudinal Survey. *Journal of Transportation Research Part A: Policy and Practice*. (3rd round of reviews).

REPORTS AND OTHER PERIODICALS

- 2016 Jaller, M. Strategies to Maximize Asset Utilization in the California Freight System: Part I – Background and General Recommendations. http://ncst.ucdavis.edu/wp-content/uploads/2016/01/05-20-2016-NCST-Maximize-Assets-Jaller-White-Paper-Part-I_032816.pdf
- 2016 Jaller, M. Strategies to Maximize Asset Utilization in the California Freight System: Part II – Strategies. http://ncst.ucdavis.edu/wp-content/uploads/2016/01/05-20-2016-NCST-Maximize-Assets-Jaller-White-Paper-Part-II_032816.pdf
- 2015 Sánchez-Díaz, I., J. Holguín Veras and M. Jaller. Freight Trip Generation Modelling. VREF Research Brief. 2. April, 27.

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- <http://www.vref.se/publications/researchbriefs/researchbriefsuf/freighttripgenerationmodeling.5.40ced5d514ce8228d4ca0128.html>
- 2015 Holguín Veras, J., J. Amaya-Leal, J. Wojtowicz, M. Jaller, C. González-Calderón, I. Sánchez-Díaz, X. Wang, D. Haake, S. Rhodes, S. D. Hodge, R. J. Frazier, M. K. Nick, J. Dack, L. Casinelli and M. Browne. NCFRP 33 Improving Freight System Performance in Metropolitan Areas. National Cooperative Freight Research Program.
http://onlinepubs.trb.org/onlinepubs/ncfrp/ncfrp_rpt_033.pdf
- 2013 Holguín-Veras, J., J. M. Wojtowicz, C. Wang, M. Jaller, X. J. Ban, F. Aros-Vera, S. Campbell, X. Yang, I. Sanchez-Diaz, J. Amaya, C. González-Calderón, R. Marquis, S. D. Hodge, T. Maguire, M. Marsico, S. Zhang, S. Rothbard, K. Ozbay, E. F. Morgul, S. Iyer, K. Xie and E. E. Ozguven. Integrative Freight Demand Management in the New York City Metropolitan Area: Implementation Phase. <http://cite.rpi.edu/images/projects/documents/USDOT-OHD%20Final%20Report%20COMPLETE.pdf>
- 2013 Wang, X., Y. Zhou, R. Goevaers, J. Holguín-Veras, J. Wojtowicz, S. Campbell, M. Jaller and R. Webber. Feasibility of Installing Noise Reduction Technologies on Commercial Vehicles to Support Off-hour Deliveries. Department of Transportation. Final Report. From https://www.dot.ny.gov/divisions/engineering/technical-services/trans-r-and-d-repository/C-11-13%20Final%20Report_12-2013.pdf
- 2013 Holguín-Veras, M. Jaller, and T. Wachtendorf. Improving Post-Disaster Humanitarian Logistics: Three Key Lessons from Catastrophic Events. Transportation Research Board TR News. July-August, 287:4-10. <http://www.trb.org/Main/Blurbs/169548.aspx>
- 2013 Holguín-Veras, J., M. Jaller, I. Sánchez-Díaz, S. Campbell, C. Lawson, H. Levinson, E. Levine-Powers, and L. Tavasszy. NCFRP 25: Freight Trip Generation and Land Use. Final Report to the National Cooperative Freight Research Program and the National Cooperative Highway Research Program. http://onlinepubs.trb.org/onlinepubs/ncfrp/ncfrp_rpt_019.pdf
- 2011 Holguín-Veras, J., M. Jaller, and N. Perez. Task 1.9 City Logistics Initiatives to Improve Freight Traffic Conditions in New York City. SAFE-TEA LU Earmark #3437 / PIN X760.25.12
- 2011 Holguín-Veras, J., J. Ban, M. Jaller, L. Destro, and R. Marquis (2010) Feasibility Study for Freight Data Collection. Final Report to the New York Metropolitan Transportation Council. Rensselaer Polytechnic Institute. <http://www.utrc2.org/research/projects/feasibility-study-freight-data-collection-0>

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- 2014 Jaller, M., I. Sánchez-Díaz, J. Holguín-Veras, and C. Lawson. Area Based Freight Trip Generation Models. *93rd Transportation Research Board Annual Meeting*, Washington, D.C.
- 2014 Jaller, M., I. Sánchez-Díaz, and J. Holguín-Veras. Freight Trip Attraction, Freight Production, and the Role of Freight Intermediaries. *93rd Transportation Research Board Annual Meeting*, Washington, D.C.
- 2013 Jaller, M., C. González-Calderón, W. Yushimito, and I. Sánchez. Critical Infrastructure: A Case Study of Urban Mobility in Medellín. *The 2013 Critical Infrastructure Symposium. Advancing Full Spectrum Resilience*. West Point, NY.
- 2013 Jaller, M., X. Wang, and J. Holguín-Veras. Large Traffic Generators: Opportunities for City Logistics Initiatives. *92nd Transportation Research Board Annual Meeting*, Washington, D.C.
- 2013 Holguín-Veras, J., M. Jaller, E. Taniguchi, and F. Aros-Vera. The Lessons from Catastrophic Events for Post-Disaster Humanitarian Logistics Efforts: The Port Au Prince Earthquake and the Tohoku Disasters. *92nd Transportation Research Board Annual Meeting*, Washington, D.C.
- 2013 Holguín-Veras, J., X. Wang, S. Hodge, S. Campbell, I. Sánchez-Díaz, R. Marquis, M. Jaller, S. Rothbard, and J. Wojtowicz. Unassisted Off-Hour Deliveries and Their Potential Role in Freight Transportation demand Management: Results from an Attitudinal Survey. *92nd Transportation Research Board Annual Meeting*, Washington, D.C.

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghauri Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu
<http://faculty.engineering.ucdavis.edu/jaller/>

- 2012 Holguín-Veras J., and M. Jaller. Comprehensive Freight Demand Data Collection Framework for Large Urban Areas. *91st Transportation Research Board Annual Meeting*, Washington, D.C.
- 2012 Cantillo, V., M. Jaller, and J. Holguín-Veras. Development of a National Freight Demand Model with Limited Data and Resources. *91st Transportation Research Board Annual Meeting*, Washington, D.C.
- 2012 Campbell, S., M. Jaller, I. Sanchez, J. Holguín-Veras, and C. Lawson. Comparison between Industrial Classification Systems in Freight Trip Generation (FTG) Modeling. *91st Transportation Research Board Annual Meeting*, Washington, D.C.
- 2012 Holguín-Veras, J., E. Taniguchi, F. Ferreira, M. Jaller, and R. Thompson, The Tohoku Disasters: Preliminary Findings Concerning the Post Disaster Humanitarian Logistics Response. *91st Transportation Research Board Annual Meeting*, Washington, D.C.
- 2011 Jaller M., and J. Holguín-Veras. Resource Allocation Model for the Dynamic Control of Material Convergence after Disasters. *2011 INFORMS Northeastern Regional Conference*.
- 2011 Jaller M., and J. Holguín-Veras. Locating Points of Distribution Location in Large Urban Disasters. *2011 INFORMS Annual Meeting*, Charlotte, NC.
- 2010 Holguín-Veras, J., N. Perez, and M. Jaller, On the Need to Reformulate Humanitarian Logistics Modeling. *89th Transportation Research Board Annual Meeting (CD-ROM)*.
- 2009 Brom, M., J. Holguín-Veras, B. Allen, M. Silas, M. Jaller, L. Destro, and C. Torres (2009) Market Receptivity Analysis For Programs of Off-Hour Delivery in New York City. *88th Transportation Research Board Annual Meeting (CD-ROM)*, Washington, D.C.
- 2009 Yushimito, W., M. Jaller, and S. Ukkusuri. Application of Voronoi Based Heuristic for Facility Location in Disasters. *2009 Humanitarian Logistics Conference*, Atlanta. GA.
- 2008 Jaller, M., and S. Ukkusuri. Reliability Model for the Facility and Evacuation Center Locations in Emergency Logistics. XIV Latin-Ibero-American Congress of Operations Research – CLAIO 2008, Cartagena, Colombia.
- 2008 Wang, Q., M. Jaller, and B.W. Bequette. Solving Dynamic Traffic Routing Problems using Advanced Process Control Algorithms. *XV Pan-American Conference of Traffic and Transportation Engineering (PANAM XV)*. Cartagena, Colombia.
- 2008 Jaller, M., C. Paternina, and V. Cantillo. Optimization Model of the Supply Chain of Bio-Ethanol Production Processes from Biomass derived from Yucca Root and Sugar Cane. *XV Pan-American Conference of Traffic and Transportation Engineering (PANAM XV)*. Colombia.
- 2008 Holguín-Veras, J., M. Jaller, S. Ukkusuri, M. Brom, C. Torres, T. Wachtendorf, and B. Brown. Analysis of Temporal Distribution of Requests for Critical Supplies After Hurricane Katrina. *87th Transportation Research Board Annual Meeting (CD-ROM)*, Washington, D.C.
- 2007 Jaller, M., J. Holguín-Veras, and S. Ukkusuri. A Stochastic Humanitarian Inventory Model for Fixed Lifetime Goods for Disaster Planning. *2007 INFORMS Annual Meeting*, Seattle, WA.

PAPERS IN PROGRESS

- 201- Jaller, M., and J. Holguín-Veras. Resource Allocation Model for the Dynamic Control of Material Convergence after Disasters.
- 201- Jaller, M., and J. Holguín-Veras. Locating Points of Distribution Location in Large Urban Disasters.
- 201- Jaller, M., J. Holguín-Veras, and F. Aros-Vera. Chile Earthquake: from Natural Disaster to Social Catastrophe. Rensselaer Polytechnic Institute and Universidad Adolfo Ibáñez (Chile).
- 201- Jaller, M., J. Amaya, J. Holguín-Veras, L. Van Wassenhove, and F. Aros-Vera. Quantifying Material Convergence in Large Urban Areas after Catastrophic Disasters.

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghausi Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu
<http://faculty.engineering.ucdavis.edu/jaller/>

- 201- Holguín-Veras, J., M. Jaller, I. Sánchez-Díaz, C. Gónzales-Calderón, and F. Aros-Vera. Freight Trip Generation Patterns in U.S. Cities.
- 201- Jaller, M., and J. Holguín-Veras. A Humanitarian Inventory Model for Fixed Lifetime Goods for Disaster Planning. Rensselaer Polytechnic Institute.
- 201- Sánchez-Díaz, I., Campbell, S., M. Jaller, J. Holguín-Veras, and C. Lawson. The Role of Classification Systems in Freight Trip Attraction Modeling.
- 201- Holguín-Veras, J., M. Jaller, J. Amaya, X. Wang, C. González-Calderón, I. Sánchez-Díaz, M. Browne, J. Wojtowicz, S. Hodge, S. Rhodes, and D. Haake. Public Sector Freight Interventions in Metropolitan Areas I: Governance, Supply Side, and Traffic Operations. Presented at the *TRB 93rd Annual Meeting*, Washington, D.C.
- 201- Holguín-Veras, J., J. Amaya, M. Jaller, X. Wang, J. Wojtowicz, C. González-Calderón, I. Sánchez-Díaz, S. Hodge, M. Browne, S. Rhodes, and D. Haake. Public Sector Freight Interventions in Metropolitan Areas II: Pricing, Logistics, and Demand Management. Presented at the *TRB 93rd Annual Meeting*, Washington, D.C.

PRESENTATIONS

- 2016 Jaller, M. California Sustainable Freight Action Plan: Before and After. World Metropolitan Transport Development Forum, Beijing, China. October
- 2016 Jaller, M. Disaster Response Logistics: Findings from Field Research. 50 Years of the Industrial Engineering Department. Universidad de Antioquia. Medellín, Colombia. October
- 2016 Jaller, M. Analyzing the Impacts of Passesnger Induced Demand when Implementing a Freight Demand Management Strategy. Presented at the XIX Pan-American Conference of Traffic and Transportation Engineering (PANAM XIX). Mexico, City, Mexico, September.
- 2016 Jaller, M. Transportation Demand Analysis. ASCE ExCEED Program. West Point, NY. July
- 2016 Jaller, M. Disaster Response Logistics. Universidad Nacional, Bogotá, Colombia. June
- 2016 Jaller, M. Disaster Donations Information Management System with Social Costs Considerations. INFORMS International Meeting. Hawaii, June.
- 2016 Jaller, M. Assessing Disaster Response Capabilities Using the Process Maturity Framework. POMS 27th Annual Conference. Orlando, Fl., May
- 2016 Jaller, M. Planning Points of Distribution Networks with Social Costs Considerations. Workshop and Discussion on Disaster Response Logistics. Rensselaer Polytechnic Institute. Webinar. February.
- 2016 Jaller, M. Humanitarian Logistics Response after Hurricane Katrina. Ohio University. Invited Lecture Webinar. February.
- 2016 Jaller, M. The Need for a Comprehensive Demand Management Strategy that Considers both Passenger and Freight: Mitigating the Impact of Passenger Induced Demand. Transportation Research Board Annual Meeting, Washington, D.C. January.
- 2015 Jaller, M. Current Trends in Infrastructure Adaptation and Mitigation Frameworks. Departamento Nacional de Infraestructure de Transporte (DNIT-Brazi). November.
- 2015 Jaller, M. Sustainable Freight Initiative. Institute of Transport Studies. Board of Advisors Meeting. Davis, CA. November.
- 2015 Jaller, M. Quantifying the Impacts of Sustainable City Logistics Strategies in the Mexico City Metropolitan Valley. INFORMS Annual Meeting, Philadelphia. November.
- 2015 Jaller, M. Freight Generation and Freight Trip Generation Modeling. International Urban Freight Conference (I-NUF). METTRANS. Long Beach, CA. October.
- 2015 Jaller, M. The Need for Freight and Passenger Travel Demand Management Strategies: Off-Hour Delivery Program in San Francisco. International Urban Freight Conference (I-NUF). METTRANS. Long Beach, CA. October.
- 2015 Jaller, M. Unusual topics in Transportation Engineering, Institute of Transportation Engineers (ITE) UC Davis Club. October.

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghauri Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu

<http://faculty.engineering.ucdavis.edu/jaller/>

- 2015 Jaller, M. Modeling Changes in Freight Demand, Research Meeting: The Technological, Economic and Environmental Potential of Natural Gas as a Sustainable Transportation Fuel in the United States. Organized by ITS and Sloan Foundation, Davis, CA. October
- 2015 Jaller, M. Understanding Freight Transport to Reduce Energy Use and GHG Emissions. Asilomar: 15th Biennial Conference on Transportation and Energy. Asilomar, CA, August.
- 2015 Jaller, M. Quantifying the Impacts of Sustainable City Logistics Measures in the Mexico City Metropolitan Area. IX City Logistics Conference, Tenerife, Spain, June.
- 2015 Jaller, M. Sustainable Freight Transportation Systems: Operations, Technology and Policy. STEPS 2030 Targets Workshop and Symposium, Davis, CA, May.
- 2015 Jaller, M. Collaborative Aid Networks: The Importance of Integration with the Local Social Fabrics. 26th Production and Operations Management Conference (POMs), Washington, D.C., May.
- 2015 Jaller, M. Social Capital in Areas Affected by Natural Disasters and Armed Conflict: The Case of Colombia. 26th Production and Operations Management Conference (POMs), Washington, D.C., May.
- 2015 Jaller, M. The Urban Freight System: Overview of Sustainable Practices and Public Sector Initiatives. I International Logistics Conference. LogPort Program, Universidad del Norte. Cartagena, Colombia. March.
- 2015 Jaller, M. Lessons Learned from Disaster Research for Humanitarian Logistics and Risk Management. Universidad Libre. Barranquilla, Colombia. March
- 2015 Jaller, M. Overview of Sustainable Practices and Public Sector Initiatives. Corporación Universitaria del la Costa. Barranquilla, Colombia. March
- 2015 Jaller, M. Challenges and Improvement Opportunities for the Urban Freight System in Curitiba. Presented at the Transportation Research Board 94th Annual Meeting, Washington, D.C.
- 2014 Jaller, M. Material Convergence. NSF Workshop on Multi-Disciplinary Research on Disaster Response Logistics. National Science Foundation. Washington, DC.
- 2014 Jaller, M. Improving Humanitarian Logistics: Key Findings from Disaster Research. Pontificia Universidad Católica de Chile, Santiago, Chile.
- 2014 Jaller, M. Material Convergence: Second Tier Disaster. 3rd Seminar of Natural Disasters Management. Universidad Nacional Andrés Bello. Santiago, Chile.
- 2014 Jaller, M. Mitigating the Unintended Consequences of Generosity: The Case of Unsolicited Donations in Disasters. 2014 INFORMS Annual Meeting. November, San Francisco, CA.
- 2014 Jaller, M. Trip Generation Patterns in Developing Countries: The Case of United States. Peer to Peer Exchange Program. VREF Center of Excellence for Sustainable Urban Freight Systems. USA.
- 2014 Jaller, M. Freight Trip Generation: A Summary of Findings. Pan-American Advance Studies Institute on Sustainable Urban Freight Systems. National Science Foundation, VREF Center of Excellence for Sustainable Urban Freight Systems, and Rensselaer Polytechnic Institute. Bogotá and Cartagena, Colombia.
- 2014 Jaller, M. Freight Generation and Freight Trip Generation. Workshop on Urban Freight Transport. Pontificia Universidad Católica de Chile, Santiago, Chile.
- 2014 Jaller, M. Urban Behavioral Microsimulation. Urban Freight Workshop. Workshop on Urban Freight Transport. Pontificia Universidad Católica de Chile, Santiago, Chile.
- 2014 Jaller, M. Freight Trip Generation and Land Use. Urban Freight Workshop. Universidad Nacional Autónoma de México, México.
- 2014 Jaller, M. Urban Behavioral Microsimulation. Urban Freight Workshop. Universidad Nacional Autónoma de México, México.
- 2014 Jaller, M. Parking in the City: Challenges for Freight Traffic. Workshop on Urban Freight Systems. Universidad del Norte, Colombia.
- 2014 Jaller, M. Material Convergence after Disasters. International Panel on Humanitarian Logistics for Developing Countries. Universidad del Norte, Colombia.
- 2014 Jaller, M. Unsolicited Donations after Disasters. 25th Production and Operations Management Conference (POMs), Atlanta, GA. May.

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghausi Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu
<http://faculty.engineering.ucdavis.edu/jaller/>

- 2014 Jaller, M. Contending with Material Convergence: An Important and Understudied Phenomenon. Department of Civil and Environmental Engineering, University of California, Davis.
- 2014 Jaller, M. Improving Freight System Performance. Center for Urban Transportation Research. University of South Florida, Tampa.
- 2014 Jaller, M. Important Lessons from Disaster Research to Characterize Humanitarian Logistics. Seminar at Universidad Nacional de Colombia en Medellín. Colombia.
- 2014 Jaller, M. The Issues of Freight Parking in Urban Areas. Seminar at Universidad Nacional de Colombia en Medellín. Colombia.
- 2014 Jaller, M. Important Lessons from Disaster Research for Humanitarian Logistics. Seminar at Universidad de los Andes. Bogotá, Colombia.
- 2014 Jaller, M., I. Sanchez, and J. Holguín-Veras. Freight Trip Attraction, Freight Trip Production, and the Role of Freight Intermediaries. Presented at the Transportation Research Board 93rd Annual Meeting, Washington, D.C.
- 2014 Jaller, M., I. Sanchez, and J. Holguín-Veras. Area-based Freight Trip Generation Models. Presented at the Transportation Research Board 93rd Annual Meeting, Washington, D.C.
- 2013 Jaller, M., X. Wang, and J. Holguín-Veras. Improving Freight System Performance in Metropolitan Areas. 1st Workshop on Urban Freight Transport. Universidad Católica de Chile. October 25, Santiago, Chile.
- 2013 Jaller, M. The Important and Understudied Phenomenon of Material Convergence after Disasters: A Control Problem. 2nd Seminar of Natural Disasters Management. Universidad Nacional Andrés Bello. October 25, Santiago, Chile.
- 2013 Jaller, M., X. Wang, and J. Holguín-Veras. Large Traffic Generators: Opportunities for City Logistics Initiatives. United States Department of Transportation, Federal Highway Administration (FHWA), Taking Freight Seminars. October 16, FHWA Webinar.
- 2013 Jaller, M., I. Sanchez, and J. Holguín-Veras. Freight Trip Generation and Business Size. 5th METRANS International Urban Freight Conference. October, Long Beach, CA.
- 2013 Jaller, M., C. Wang, and J. Holguín-Veras. Urban Freight Large Traffic Generators: Opportunities for City Logistics Initiatives. 5th METRANS International Urban Freight Conference. October, Long Beach, CA.
- 2013 Jaller, M., and J. Holguín-Veras. Dynamic Control of Material Convergence. 2013 INFORMS Annual Meeting. October, Minneapolis, MN.
- 2013 Jaller, M. Workshop on Urban Freight Transport. Universidad de los Andes. July 22-23, Bogotá, Colombia.
- 2013 Jaller, M. Urban Freight Data Collection. Workshop on Urban Freight Transport: A Global Perspective. Escola Politécnica, University of São Paulo, Dept. of Industrial Engineering. July 19th, Sao Paulo, Brazil.
- 2013 Jaller, M. Disaster Behaviors. 2nd Workshop on Humanitarian Logistics. Escola Politécnica, University of São Paulo, Dept. of Industrial Engineering. July 18th, Sao Paulo, Brazil.
- 2013 Jaller, M., C. González-Calderón, W. Yushimito, and I. Sánchez. Critical Infrastructure: A Case Study of Urban Mobility in Medellín. The 2013 Critical Infrastructure Symposium. Advancing Full Spectrum Resilience. West Point, NY.
- 2013 Jaller, M. Freight Trip Generation and Land Use. Workshop on Urban Freight Transport: A Global Perspective. Indian Institute of Technology Madras. June 24-25, Chennai, India.
- 2013 Jaller, M. Freight Origin-Destination Synthesis. Workshop on Urban Freight Transport: A Global Perspective. Indian Institute of Technology Madras. June 24-25, Chennai, India.
- 2013 Jaller, M. US Cities' Urban Freight Surveys. City Logistics Research: A Trans-Atlantic Perspective. EU-US Transportation Research Symposium No. 1. National Science Foundation. May 30-31, Washington, D.C.
- 2013 Jaller, M., and J. Holguín-Veras. Dynamic Control of Material Convergence. 24th Production and Operations Management Conference (POMs), Denver, CO. May
- 2013 Jaller, M., and J. Holguín-Veras. Locating Poings of Distribution in Large Urban Disasters. 24th Production and Operations Management Conference (POMs), Denver, CO. May.

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghauri Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu

<http://faculty.engineering.ucdavis.edu/jaller/>

- 2013 Holguín-Veras, J., M. Jaller, N. Perez, L. Van Wassenhove and F. Aros-Vera. Comparison of Different Proxy Measures Used as Objective Function for Post-Disaster Humanitarian Logistics. 24th Production and Operations Management Conference (POMs), Denver, CO.
- 2013 Jaller, M., J. Holguín-Veras and S. Hodge. Parking in the City: Challenges for Freight Traffic. Presented at the Transportation Research Board 92nd Annual Meeting, Washington, D.C.
- 2013 Jaller, M., X. Wang and J. Holguín-Veras. Large Traffic Generators: Opportunities for City Logistics Initiatives. Poster presentation at the Transportation Research Board 92nd Annual Meeting, Washington, D.C., January.
- 2013 Jaller, M., and J. Holguín-Veras. Comprehensive Freight Demand Data Collection Framework for Large Urban Areas. Invited presentation for the ABJ40 Freight Surveys subcommittee at the Transportation Research Board 92nd Annual Meeting, Washington, D.C., January.
- 2012 Jaller, M., and J. Holguín-Veras. Comparative Analyses of the Stated Behavioral Responses to Off-Hour Delivery Policies. Presented at the XVII Pan-American Conference of Traffic and Transportation Engineering (PANAM XVII). Santiago, Chile. September 24, 2012. Poster presentation at the Transportation Research Board 92nd Annual Meeting, Washington, D.C.,
- 2012 Jaller, M., and J. Holguín-Veras. A Sketch Planning Model for Points of Distribution Location in Large Urban Disasters. Presented at the XVII Pan-American Conference of Traffic and Transportation Engineering (PANAM XVII). Santiago, Chile. September.
- 2012 Holguín-Veras, J., E. Taniguchi, F. Ferreira, M. Jaller, and F. Aros-Vera. The Tohoku Disasters: Chief Findings Concerning the Post Disaster Humanitarian Logistics Response. Poster presentation at the 2012 National Science Foundation CMMI Engineering Research and Innovation Conference. Boston, MA. July 9-12.
- 2012 Jaller, M, and J. Holguín-Veras. Resource Allocation Problems during Disasters: The Cases of Points of Distribution Planning. Poster presentation at 2012 Conference on Health and Humanitarian Logistics. Hamburg, Germany. March 21-23.
- 2012 Jaller, M, and J. Holguín-Veras. Resource Allocation Problems during Disasters: Material Convergence Control. Poster presentation at 2012 Conference on Health and Humanitarian Logistics. Hamburg, Germany. March 21-23.
- 2012 Jaller, M. Resource Allocation Problems during Disasters: The Cases of Points of Distribution Planning and Material Convergence Control. Transportation Engineering and Logistics Seminar. University at Buffalo. The State University of New York. Buffalo, NY. February 24.
- 2012 Holguín-Veras, J., E. Taniguchi, F. Ferreira, M. Jaller, and R. Thompson. The Tohoku Disasters: Preliminary Findings Concerning the Post Disaster Humanitarian Logistics Response. Poster presentation at the 91st Transportation Research Board Annual Meeting. Washington D.C.
- 2012 Holguín-Veras J., and M. Jaller. Comprehensive Freight Demand Data Collection Framework for Large Urban Areas. Poster presentation at the 91st Transportation Research Board Annual Meeting. Washington D.C. January 23rd.
- 2012 Cantillo, V., M. Jaller, and J. Holguín-Veras. Development of a National Freight Demand Model with Limited Data and Resources. Poster presentation at the 91st Transportation Research Board Annual Meeting. Washington D.C. January 23rd.
- 2012 Campbell, S., M. Jaller, I. Sanchez, J. Holguín-Veras, and C. Lawson. Comparison between Industrial Classification Systems in Freight Trip Generation (FTG) Modeling. Poster presentation at the 91st Transportation Research Board Annual Meeting. Washington D.C.
- 2011 Jaller, M (Invited Cluster Speaker). Resource Allocation Problems during Disasters: The Cases of Points of Distribution Planning. Presented at INFORMS Annual Meeting. Charlotte, NC.
- 2011 Jaller, M. Resource Allocation Problems during Disasters: The Cases of Points of Distribution Planning and Material Convergence Handling. Presented at the Doctoral Student Research in

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghausi Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu
<http://faculty.engineering.ucdavis.edu/jaller/>

- Transportation Modeling Workshop at the 90th Transportation Research Board Annual Meeting. Washington, DC. January 23rd.
- 2011 Holguín-Veras, J., M. Jaller, and T. Wachtendorf. Field Investigation on the Comparative Performance of Alternative Humanitarian Logistic Structures after the Port au Prince Earthquake: Preliminary Findings and Suggestions. Accepted for Poster presentation at the 2011 Health & Humanitarian Logistics Conference. Georgia Institute of Technology. Atlanta.
- 2010 Holguín-Veras, J., M. Jaller, and N. Perez. On the Need to Reformulation Humanitarian Logistics Modeling. Poster presentation at the 2010 Conference on Health and Humanitarian Logistics. Georgia Institute of Technology. Atlanta, GA.
- 2009 Yushimito, W., M. Jaller, and S. Ukkusuri. Facility Location in Disasters: Voronoi-Based Heuristic Algorithm with Application to Hurricane Katrina. Poster presentation at the 88th Transportation Research Board Annual Meeting. Washington D.C.
- 2009 Holguín-Veras, J., M. Jaller, S. Ukkusuri, M. Brom, C. Torres, T. Wachtendorf, and B. Brown. Analysis of Temporal Distribution of Requests for Critical Supplies after Hurricane Katrina. Poster presentation at the 2009 Humanitarian Logistics Conference. Georgia Institute of Technology. Atlanta, GA.
- 2008 Jaller, M (Invited Speaker). Humanitarian logistics: Preliminary findings. Presented at the XVIII National Student Congress of Industrial Engineering, Management and Production. Barranquilla, Colombia. September 17.
- 2008 Wang, Q., M. Jaller, and B.W. Bequette. Solving Dynamic Traffic Routing Problems using Advanced Process Control Algorithms. Presented at the XV Pan-American Conference of Traffic and Transportation Engineering (PANAM XV). Cartagena, Colombia. September.
- 2008 Jaller, M., C. Paternina, and V. Cantillo. Optimization Model of the Supply Chain of Bio-Ethanol Production Processes from Biomass derived from Yucca Root and Sugar Cane. Presented at the XV Pan-American Conference of Traffic and Transportation Engineering (PANAM XV). Cartagena, Colombia.
- 2007 Jaller, M., S. Ukkusuri, and J. Holguín-Veras. A Stochastic Humanitarian Inventory Model of Fixed Lifetime Goods for Disaster Planning. Presented at INFORMS Annual Meeting. Seattle, WA. November.

PROFESSIONAL/SOCIAL MEMBERSHIPS AND ACTIVITIES

Committees

- 10/16–Present Chair. Subcommittee on Freight Travel Survey Methods. Transportation Research Board. (2016-2018) (ABJ40).
- 09/16–Present Scientific Committee. Colombian Transport and Transit Congress. Bogota, Colombia, 2017.
- 05/16–Present Member, Standing Committee on Travel Survey Methods. Transportation Research Board. (2016-2017) (ABJ40).
- 03/15–Present Young Member. Standing Committee on Urban Freight Transportation. Transportation Research Board. (2015-2018) (AT025).
- 06/15–Present Faculty Affiliate, Department’s Representative as Faculty Affiliate at the Center for the Advancement of Multicultural Perspectives on Science (CAMPOS) Program.
- 10/14–Present Member, Special Interest Group (SIG) B6 of Humanitarian Logistics of the World Conference in Transportation Research Society (WCTRS).
- 09/14–Present Young Member: Standing Committee on the Logistics of Disaster Response and Business Continuity. Transportation Research Board. (2014-2018) AT065.
- 03/15–10/15 Conference Committee Member. International Urban Freight Conference (I-NUF). METRANS. Long Beach, CA. (2015).
- 09/14-02/15 Committee Member, Lecturer PSOE Hiring Committee. University of California Davis.
- 08/06–08/14 Mentor, Undergraduate Research Program, Rensselaer Polytechnic Institute, Troy, NY.

MIGUEL A. JALLER, Ph.D.

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<http://faculty.engineering.ucdavis.edu/jaller/>

Professional Organizations

03/16–Present Faculty Advisor of the UC Davis Institute of Transportation Engineering (ITE) Student Chapter.
04/16–Present Member of the Society of Hispanic Engineering Professionals (SHPE).
11/12–Present Affiliate Member of Young Professionals in Transportation (YPT).
01/11–Present Member of the Council of Supply Chain Management Professionals.
01/09–Present Member of the American Society of Civil Engineers (ASCE).
01/08–Present Member of the Institute for Operations Research and Management Science (INFORMS).
01/07–Present Affiliate Member of the Transportation Research Board (TRB).
07/12–07/12 Invited to the 2012 World Economic Forum (WEF) on Supply Chain and Transport Risk Workshop.

Conference/Workshop Coordinator/Session Chair

09/16
08/15–11/15 Session Moderator. 2015 METRANS International Urban Freight Conference, Long Beach, CA.
01/15–05/16 Session Chair. Productions and Operations Management Conference, Washington, D.C. 2015.
01/14–12/14 NSF Workshop on Multi-Disciplinary Research on Disaster Response Logistics. Washington, D.C. Funded by the National Science Foundation (NSF)
11/12–08/14 Asst. Conf. Coordinator, 2014 Pan-American Studies Institute on Transportation Science.
08/13–10/13 Session Chair. INFORMS Annual Meeting, Minneapolis, November, 2013.
08/13–11/13 Session Moderator. 2013 METRANS International Urban Freight Conference, Long Beach, CA. November, 2013.
11/12–05/13 Session Chair at the 2013 Production and Operations Management Conference, Denver, Co.

Journal Editorial and Advisory Boards

09/15- Present POM Journal Editorial Review Board. Department of Disaster Management (DMD) for the Production and Operation Management (POM) Journal
04/15- Present Scientific Committee of INEG CUC Journal (ISSN: 0122-6517 e E-ISSN: 2382-4700)
01/12–Present Member of the International Editorial Review Board of the International Journal of Business Analytics (IJBAN).

Journal Reviewer

Journal of Humanitarian Logistics and Supply Chain Management
Journal of Operations Management
Journal of Productions and Operations Management
Journal of Transport Geography
Transportation Research Part C: Emerging Technologies
Transportation Research Part E: Logistics and Transport Review
Transportation Research Part A: Policy and Practice
Transportation Research Part D: Transport and Environment
International Journal of Disaster Risk Reduction
Journal of Networks and Spatial Economics
Transportation Research Record
Transportation
Journal of Socio-Economic Planning Sciences
Supply Chain Forum: an International Journal
International Journal of Emergency Management
International Journal of Operations and Quantitative Management
International Journal of Shipping and Transport Logistics
Journal of Cleaner Production
TRANSJOUR
Sustainability

MIGUEL A. JALLER, Ph.D.

One Shields Ave, Ghauri Hall, Room 3143, Davis, CA, 95616 – (530) 752-7062 – mjaller@ucdavis.edu
<http://faculty.engineering.ucdavis.edu/jaller/>

Research Proposal Referee

CONICYT. Comisión Nacional de Investigación Científica y Tecnológica. Education Ministry.
Chile
METTRANS Transportation Center, University of Southern California.
NCST National Center for Sustainable Transportation. University of California, Davis
Swiss National Science Foundation (SNSF)

SKILLS

Languages: Spanish and English. Basic knowledge of Italian, Portuguese and Swedish.
Software: AMPL, VBA (Macros), Microsoft Office Suite, R, Matlab, SPSS, Minitab, Arena, TransCAD, Maptitude, Synchro, Limdep, Microsirir. Knowledge in C++, Visual Basic, GAMS.