

JOHANNA AMAYA

Assistant Professor of Supply Chain Management
Pennsylvania State University, 425 Business Building, University Park, PA 16802
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EDUCATION

Doctor of Philosophy in Transportation Engineering <i>Rensselaer Polytechnic Institute, Troy, New York, United States.</i>	May 2016
Master of Science in Industrial and Systems Engineering <i>University of Florida, Gainesville, FL, United States</i>	Dec. 2009
Master of Science in Industrial Engineering <i>Universidad del Norte, Barranquilla, Colombia.</i>	Sep. 2007
Specialization in Business Logistics <i>Universidad del Norte, Barranquilla, Colombia.</i>	Sep. 2004
Bachelor of Science in Industrial Engineering <i>Universidad del Norte, Barranquilla, Colombia.</i>	Mar. 2002

ACADEMIC EXPERIENCE

Assistant Professor Department of Supply Chain and Information Systems Pennsylvania State University	Since 2021
Assistant Professor Department of Supply Chain Management Iowa State University	2016 – 2021
Postdoctoral Research Associate Department of Civil and Environmental Engineering Rensselaer Polytechnic Institute, New York.	May – Aug 2016
Graduate Research Assistant Department of Civil and Environmental Engineering Rensselaer Polytechnic Institute, New York.	2012 – 2016
Faculty – Clinical Professor Department of Industrial Engineering. Universidad del Norte, Colombia.	2011 – 2012
Student Assistant Department of Industrial and Systems Engineering University of Florida	2009 – 2010
Lecturer Department of Industrial Engineering Universidad del Norte, Colombia.	2005 – 2008

COURSE AND CURRICULUM DEVELOPMENT

Penn State University

- SCM404 – Fulfillment Operations (*Fall 2021, 2022, 2023, 2024*)
- SCM497 – Global Logistics Seminar (*Spring 2024*)

Iowa State University

- SCM460 – Decision Tools for Logistics and Operations Management (*Spring 2017, 2018, Fall 2016, 2017, 2018, 2019, 2020*)
- SCM461 – Principles of Transportation (*Spring 2019, 2020, 2021*)

University of Florida (Teaching Assistant)

- EIN 6336 – Advanced Production and Inventory Control (*Spring 2010*)
- ESI 6314 – Deterministic Methods of Operations Research (*Fall 2009*)

Courses outside the US

Escuela Superior Politécnica del Litoral (ESPOL) - Ecuador

- Advanced Sales and Operations Planning (*Winter 2024*)

Universidad Distrital Francisco Jose de Caldas - Colombia

- Disaster Response Logistics: Research and Practice (*Summer 2023*)

Universidad del Valle - Colombia

- EIFAS-II – Humanitarian Logistics (*Summer 2019*)

Universidad Nacional (Sede Bogotá) - Colombia

- Humanitarian Logistics: Engineering, Peace, and Development (*Summer 2016*)

Universidad del Norte - Colombia

- EST 7042 – Data Analysis I (*Fall 2011, Spring 2012*)
- IIN 4150 – Quantitative Methods for Management (*Summer 2011*)
- IIN7100 – Logistics and Distribution (*Fall 2005, 2007 and Spring 2006, 2008*)
- IIN 4140 – Operations Strategy (*Spring 2007, Fall 2006, 2007*)
- IIN0010 – Introduction to Industrial Engineering (*Spring 2007*)

TEACHING TRAINING

CELT Teaching and Learning Academy

2019-2020

Center for Excellence in Learning and Teaching – Iowa State University

Certificate in College Pedagogy

2007

CEDU - Universidad del Norte

RESEARCH TRAINING

CMMI's Game Changer Academies for Advancing Research Innovation

2021-2022

Panel Fellow Cohort 2 - National Science Foundation

Research Collaboration Catalysts Program

2020-2021

Office of the Vice President for Research – Iowa State University

PUBLICATIONS IN REFEREED JOURNALS

(* Student)

Encarnacion, T. and **Amaya, J.** (2024) Determinants of Parcel Locker Adoption for Last-Mile Deliveries in Urban and Suburban Areas. *Transportation Journal (Available Online)*

Amaya, J., Serrano, I.*, Cantillo, V., Arellana, J., and Pérez-Siguenza, C. (2024). Implications of Trust, Preparedness and Risk Perceptions on Deprivation Costs and Disaster Relief Planning. *Socio-Economic Planning Sciences*, Volume 91, February 2024

- Amaya, J.**, Encarnacion, T., and Delgado-Lindeman, M. (2023) Understanding Delivery Drivers' Parking Preferences in Urban Freight Operations. *Transportation Research Part A: Policy and Practice*, Volume 176, October 2023
- Cantillo, V., **Amaya, J.**, Serrano, I*, Cantillo-Garcia, V.*, and Galvan, J*. (2022) Influencing Factors of Trucking Companies Willingness to Shift to Alternative Fuel Vehicles. *Transportation Research Part E: Logistics and Transportation Review*, Volume 163, July 2022
- Holguin-Veras, J., Encarnacion, T., Van Wassenhove, L., Pokharel, S., Cantillo, V., **Amaya, J.**, Wachtendorf, T., and Rilling, J. (2022) Reducing Material Convergence in Disaster Environments: The potential of trusted change agents. *Transportation Research Part E: Logistics and Transportation Review*, Volume 162, June 2022
- Fernandez-Pernett, S*, **Amaya, J.**, Arellana, J., and Cantillo, V. (2022) Questioning the implication of the Utility-Maximization Assumption for the Estimation of Deprivation Cost Functions after Disasters. *International Journal of Production Economics*, Volume 247, May 2022
- Amaya, J.**, Delgado-Lindeman, M*, Arellana, J., and Allen, J. (2021) Urban Freight Logistics: What do Citizens Perceive? *Transportation Research Part E: Logistics and Transportation Review*, Volume 152, August 2021
- Gonzalez-Calderon, C., Holguin-Veras, J., **Amaya, J.**, Sanchez-Diaz, I., and Sarmiento, I. (2021) Generalized Noortman and Van Es' Empty Trips Model. *Transportation Research Part A: Policy and Practice*, Volume 145, March 2021, pp 260-268
- Holguin-Veras, J., **Amaya, J.**, Sanchez-Diaz, I., Browne, M., Wojtowicz, J. (2020) State of the Art and Practice of Urban Freight Management Part I: Infrastructure, Vehicle-Related, and Traffic Operations. *Transportation Research Part A: Policy and Practice*, Volume 137, July 2020, pp 360-382
- Holguin-Veras, J., **Amaya, J.**, Sanchez-Diaz, I., Browne, M., Wojtowicz, J. (2020) State of the Art and Practice of Urban Freight Management Part II: Financial Approaches, Logistics, and Demand Management. *Transportation Research Part A: Policy and Practice*, Volume 137, July 2020, pp 383-410
- Amaya, J.**, Arellana, J., and Delgado-Lindeman M*. (2020) Stakeholders Perceptions to Sustainable Urban Freight Policies in Emerging Markets. *Transportation Research Part A: Policy and Practice*, Volume 132, February 2020, pp 329-348
- Macea, L.*, **Amaya, J.** Cantillo, V., and Holguin-Veras. Evaluating Economic Impacts of Water Deprivation in Humanitarian Stated Choice Experiments (2018). *International Journal of Disaster Risk Reduction*, Volume 28, June, 427-438.
- Holguín-Veras, J., **Amaya, J.** and Seruya, B. (2017). Urban Freight Policy Making: The Role of Qualitative and Quantitative Research. *Transport Policy*. Volume 56, 75-85.
- Holguín-Veras, J., **Amaya, J.**, Cantillo, V., Van Wassenhove, L., Aros-Vera, F., and Jaller, M. (2016). Econometric Estimation of Deprivation Cost Functions: A Contingent Valuation Experiment. *Journal of Operations Management*. Volume 45, July 2016, 44–56.
- Cantillo, V., **Amaya, J.**, and Ortuzar, J. de D. (2010). Thresholds and Indifference in Stated Choice Surveys. *Transportation Research Part B: Methodology*. Vol 44, Issue 6, July 2010, 753-763.
- Amaya, J.**, Guzmán, L., and Donoso, Y. (2007). Scheduling Economic Power Generators under Insulation Conditions from National Land using Multi-objective Optimization. *WSEAS Transactions on Mathematics*. Issue 8, Vol 6, August, 802-810.
- Bravo, B*, Cortes, K*, Aguilar, M*, Granados, S*, and **Amaya, J.** (2007). Competitiveness in the Supply Chain Management: An overview in an Oils' and Greases' Manufacturer. *Ingeniería y Desarrollo*. Vol 22. December 2007, 38-53.

PEER REVIEWED BOOK CHAPTERS

- Holguin-Veras, J., Encarnacion, T., Ramirez-Rios, D., **Amaya, J.**, and Aros-Vera, F. Research Needs in Disaster Response Logistics. In *Handbook of Research Methods on Supply Chain Management*. Stephen Childe and Anabela Soares, Editors. 2022, Edward Elgar Publishing Ltd. Cheltenham, UK. p. 481-495
- Holguín-Veras, J., Jaller, M., Aros-Vera, F., **Amaya, J.**, Encarnacion, T., and Wachtendorf, T. Disaster Response Logistics: Chief Findings of Fieldwork Research in Advances in Managing Humanitarian Operations. C.W. Zobel, N. Altay, and M.P. Haselkorn, Editors. 2016, Springer International Publishing. p. 33-57.

MANUSCRIPTS UNDER REVIEW

Amaya, J., Cantillo, V., and Encarnacion, T. *E-Commerce Delivery Choices*
 Basallo, M., **Amaya, J.**, and Paredes, A. *Volunteer Assignment after Disasters*

MANUSCRIPTS IN PROGRESS

Amaya, J. and Reed, S. *Parking Reservation for Commercial Vehicles*
Amaya, J., Fernandez, S., McClung, D., and Wessel, N. *Analysis of Tenders Acceptance*
Amaya, J. and Encarnacion, T. *Grocery Retailing Initiatives during COVID-19*
Amaya, J., Encarnacion, T., and Holguín-Veras, J. *Donations after Disasters*
Amaya, J., Cantillo, V., and Serrano, I. *Building Trust and Enhancing Preparedness*

HONORS, AWARDS, AND FELLOWSHIPS

Ivy College of Business Early Achievement in Research Nominee	2018
POMS Emerging Scholar	2017
Franz Edelman Award for Achievements in Operations Research and Management Science (INFORMS) Finalist	2017
FOCUS Fellow - Georgia Tech	2016
RPI Founders Award of Excellence	2015
MIT Rising Stars - Civil and Environmental Engineering	2015
Eno Fellow. Eno Center for Transportation	2015
Research Assistantship - RPI	2012-2016
Fulbright Scholarship	2008-2011

BOOK

Santander-Mercado, A., **Amaya, J.**, and Vilorio, C. (2014) "Diseño de Cadenas de Suministros Resilientes". Ediciones Uninorte and Ediciones de la U. ISBN 978-578-741-441-7. pp. 114.

SOFTWARE

SCOPT- Supply Chain Optimizer (2012): Decision-making system for locating facilities in a supply chain, minimizing costs and the risk of breaks in network flows.

REPORTS AND OTHER PUBLICATIONS

Dong-O'Brien, J., **Amaya, J.**, Litteral, T., and Davami, S. (2021). [Iowa Automated Permitting System Report to Legislature](#). Center for Transportation Research and Education Iowa State University.

Vishnu Rajamanickam – **Amaya, J.** (2019). [Increase in e-commerce-related last-mile deliveries clog urban streets](#). Freight Waves.

Amaya, J. (2018). [Después de un Desastre: enviar ayuda a donde más se necesita](#). The Conversation.

Amaya, J. (2018) [Sending Help where is Needed Most after Disasters](#). The Conversation.

Holguín-Veras, J., **Amaya, J.**, Encarnacion, T., Kyle, S., Wojtowicz, J. (2016). [Impacts of Freight Parking Policies in Urban Areas: The Case of New York City](#).

Haake, D. Wojtowicz, J, and **Amaya, J.** (2016). [From Bricks to Clicks: E-commerce is changing our neighborhoods](#). Planning Magazine. American Planning Association – July. p. 22-24.

Holguín-Veras, J. **Amaya, J.**, Wojtowicz, J., Jaller, M., Gonzalez-Calderon, C., Sanchez-Diaz, I., Wang, X., Haake, D., Rhodes, S., Hodge, S., Frazier, R., Nick, M., Dack, J., Casinelli, L., Browne, M. (2015). [Improving Freight System Performance in Metropolitan Areas: A Planning Guide](#).

Holguín-Veras, J., Wojtowicz, J., Wang, X., Jaller, M., Ban, X., Aros, F., Campbell, S., Yang, X., Sanchez, I., **Amaya, J.**, Gonzalez-Calderon, C., Marquis, R. (2013). [Integrative Freight Demand Management in the New York City Metropolitan Area: Implementation Phase](#).

PROJECTS AND GRANTS

(*Team leader)

E-Consumer Preferences to Delivery Alternatives: Are Green Attributes Relevant? (2023-2025)

Funded by Smeal Fall 2023 Small Research Grants – Penn State University – PI

Understanding Drivers' Perceptions to Deliveries after Disasters (2021-2024)

Funded by Smeal Fall 2021 Small Research Grants – Penn State University – PI

Iowa Automated Permitting System Report to Legislature (2020-2021)

Funded by Iowa Department of Transportation – Iowa State University*

Planning Grant: Engineering Research Center for Hazard Mitigation and Community Resilience (2019-2022)

Funded by the National Science Foundation (NSF) – Co-PI

RAPID: Collaborative Research: Role of Extending, Expanding, and Emergent Groups in Relief Distribution Efforts in the Aftermath of Hurricanes Harvey, Irma, and Maria (2018-2021)

Funded by the National Science Foundation (NSF) – Co-PI

RAPID: Field Investigation on the Socio-Technical Features of Post-Disaster Response Logistics in the Aftermath of the Nepal Earthquake (2015-2017)

Funded by the National Science Foundation (NSF)*

*Center of Excellence on Sustainable Urban Freight Systems (CoE-SUFS) **

Funded by Volvo Research and Education Foundations (VREF).

*NCFRP 38: Improving Freight System Performance in Metropolitan Areas **

Funded by the National Cooperative Freight Research Program (NCFRP).

INVITED TALKS AND SEMINARSKeynote Speaker - Urban Freight Logistics: An overview of Perceptions and Challenges with Freight Parking. *Summer School in Urban Logistics – University of Antwerp, Belgium*. August 19-20, 2024Carriers' Perceptions to Parking in Urban Areas. *Transportation Engineering First Year Seminar. Penn State University – University Park, PA*. March 25th, 2024Implications of Trust, Preparedness, Risk perception, and Local Context on Disaster Relief Planning. First Connections to Sustain Science in Latin America Symposium. *National Academies of Sciences, Engineering, and Medicine - Universidad del Norte – Barranquilla, Colombia*. March 1st, 2024Delivery Drivers' Parking Preferences in Urban Areas. 10^o Congreso CIIO. *Universidad de la Costa – Barranquilla, Colombia*. August 10th, 2023Sustainable Urban Freight Systems: Stakeholders Perspective. *University of California – Davis, Davis, CA*. April 27th, 2023Research Opportunities in Logistics and Last Mile Operations. *Novack Transportation and Logistics Symposium*. Center for Supply Chain Research, Pennsylvania State University, University Park, PA. April 18th, 2023Urban Freight Logistics – Stakeholders Perspective. Seminar Series. Department of Supply Chain & Analytics, College of Business Administration, *University of Missouri – St. Louis*. March 17th, 2023Urban Freight Logistics: Stakeholders' Perceptions. IX Congreso CIIO. *Universidad Nacional de Colombia– Sede Bogotá*. August 5th, 2022Sustainable Urban Logistics. Sustainability Research Seminar. Smeal College of Business, *Pennsylvania State University*. February 22nd, 2023Urban Freight Logistics: Stakeholders' Perceptions. *Rensselaer Polytechnic Institute, Troy, NY*. November 21st, 2022

- Influencing Factors of Donations After Disasters: A Comparative Study of Hurricane Katrina and Superstorm Sandy. Faculty Networking Lunch. Smeal College of Business, *Pennsylvania State University*. September 22nd, 2021
- Funciones de Costos de Privación Post-Desastres: Un análisis de variables latentes. Simposio de Investigación en Logística Urbana y Logística Humanitaria. *Universidad del Valle*, Colombia. June 29th, 2022
- Stakeholders' Perceptions to Sustainable Urban Freight Policies in Emerging Markets. *INFORMS MIF Research Webinar Series*. July 30th, 2021.
- Five Lessons from Field Research in Disaster Response. VIII REVOLUCIONA. *Universidad del Valle - Sede Zarzal*, Colombia. March 26th, 2021
- Research in Disaster Response Logistics and Its Implications. Contemporary Issues in Accounting 2020 Conference. Ivy College of Business– *Iowa State University*. December 10th, 2020
- Stakeholders' Perceptions to Urban Freight Policies in Emerging Economies and its Relation to the State of the Art and Practice. Smeal College of Business, *Pennsylvania State University*. December 7th, 2020
- Stakeholders' Perceptions to Sustainable Urban Freight Policies in Emerging Markets. Seminario de Logística Aplicada de Extremo a Extremo. *Universidad Nacional de Colombia – Sede Bogota*. September 28th, 2020.
- On the Brink of Collapse - Disaster Response Logistics and its Implications. Learn@Lunch Seminar Series - Ivy College of Business – *Iowa State University*. September 3rd, 2020.
- Building Trust to Enhance Preparedness: An Analysis of Community Perceptions. ITS-Davis Seminar Series – Institute of Transportation Studies, *University of California Davis*. May 15th, 2020.
- Optimal Districting after Disasters considering Social Costs. Fisher College of Business, *The Ohio State University*. October 22nd, 2019.
- Interface between People, Technology and Society for Urban Access: What about Deliveries? VREF Research Network Workshop - *Mobilize Fortaleza*, Brazil, June 23rd, 2019.
- Stakeholders' Perceptions to Sustainable Urban Freight Policies in Emerging Markets. Seminario Transformando el Mundo a través de la Ingeniería. *Universidad de la Sabana*, Colombia, June 6th, 2019.
- Social Costs and Districting after Disasters. Guest Lecturer Seminar Series – Business Analytics. Tippie College of Business, *University of Iowa*, Apr. 26th, 2019.
- Social Costs and Districting after Disasters. First Symposium in Humanitarian Logistics and Disruptive Supply Chains. *Universidad de la Sabana*, Bogota, Colombia, November 26th, 2018.
- Urban Freight Initiatives: State of the Art and State of the Practice. Freight Roundtable Meeting. *Des Moines MPO*, November 13th, 2018.
- Impacts of Non-Established Relief Groups on Humanitarian Supply Chains. *Universidad Jorge Tadeo Lozano*, Cartagena, Colombia, Sept. 7th, 2018.
- Role of Non-Established Relief Groups after Disasters. *Universidad del Norte*, Barranquilla, Colombia, July 6th, 2018
- Research in Disaster Response Logistics and its Implications. *Pontificia Universidad Javeriana*, Cali, Colombia, August 11th, 2017
- Public Sector Initiatives for Urban Freight. *University of Washington*, Seattle, May 8th, 2017
- Políticas para la Distribución de Carga Urbana. *Universidad del Norte*, Barranquilla, Colombia, March 15th, 2017
- Deprivation Cost Functions for Water: Results from a Contingent Valuation Experiment. *Ohio University*. February 21st, 2017.
- Public Sector Initiatives to Improve Urban Freight. *Beijing University of Technology*. Beijing, September 19th, 2016.
- Districting in Post-Disaster Environments. *Escuela Superior Politécnica del Litoral (ESPOL)*. Guayaquil, Ecuador. May 19th, 2016.

CONFERENCE PRESENTATIONS AND POSTERS

(Selected)

- Amaya, J.**, Cantillo, V., and Encarnacion, T. Last Mile Delivery Choices: Do E-consumers prefer greener options? POMS 34th Annual Conference. Minneapolis, MN, April 28th, 2024.
- Encarnación, T. and **Amaya, J.** Media Coverage of Disasters and its Implications for Precautionary Purchases. POMS 34th Annual Conference. Minneapolis, MN, April 28th, 2024.
- Amaya, J.**, Encarnación, T. and Delgado, M. Delivery Drivers' Parking Preferences in Last Mile Urban Operations. Informs Annual Meeting. Phoenix, AZ, October 16th, 2023.
- Amaya, J.** Drivers' Parking Preferences for Last Mile Freight Operations. PANAM Guayaquil 2023. Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil, Ecuador, August 3rd, 2023
- Fernandez-Pernett, S. and **Amaya, J.** Influencing Factors of Carriers' Tender Rejection. PANAM Guayaquil 2023. Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil, Ecuador, August 3rd, 2023
- Amaya, J.**, Delgado, M., Arellana, J., and Allen, J. Urban Freight Logistics: What Do Citizens Perceive? METRANS International Urban Freight Conference (I-NUF). Long Beach, CA. May 26th, 2022
- Amaya, J.**, Encarnacion, T., Martinez, E., and Acosta, M. Initiatives and Consumer Sentiment of Grocery Retailing during COVID-19: The Case of Colombia. DSI Annual Conference, Nov 18th, 2021 (Virtual)
- Amaya, J.**, Cantillo, V., and Arellana, J. Building Trust and Enhancing Preparedness: An Analysis of Citizens' Perceptions. DSI Annual Conference, Nov. 17th, 2021 (Virtual)
- Amaya, J.**, Encarnacion, T., Martinez, E., and Acosta, M. Strategies and Challenges of Grocery Retailing during COVID-19: The Case of Colombia. POMS 31st Annual Conference, May 4th, 2021 (Virtual)
- Amaya, J.**, Cantillo, V., and Arellana, J. Building Trust and Enhancing Preparedness: An Analysis of Citizens' Perceptions. POMS 31st Annual Conference, May 3rd, 2021 (Virtual)
- Amaya J.**, Arellana, J. and Delgado, M. Stakeholders Perceptions to Sustainable Urban Freight Policies in Emerging Economies. METRANS International Urban Freight Conference (I-NUF). Long Beach, CA. October 17th, 2019
- Amaya J.**, Arellana, J. and Delgado, M. Urban Logistics: What do Citizens think about it? Colombian Conference of Transportation and Transit. Cartagena, Colombia. June 27th, 2019
- Amaya J.**, Arellana, J. and Delgado, M. Analyzing the Perceptions of Urban Logistics Agents to Freight Transportation Policies in Emerging Markets. Colombian Conference of Transportation and Transit. Cartagena, Colombia. June 27th, 2019
- Amaya, J.** and Faires, C. The Role of the Private Sector after Disasters: The Case of Hurricane Harvey. POMS 30th Annual Conference. Washington, D.C. May 4th, 2019.
- Amaya, J.** Urban Logistics in Cartagena: Perceptions of Supply Chain Agents. The Cycle-Logistics Conference. Cartagena, Colombia, November 14th, 2018.
- Amaya, J.** Holguin-Veras, J, Sanchez-Diaz, I., and Wojtowicz, J. State of the Art and State of the Practice of Urban Freight Management. Informs Annual Meeting. Phoenix, AZ. Nov. 5th, 2018.
- Amaya, J.** Holguin-Veras, J, and Mitchell, J.E. Optimal Districting of Disaster Areas. Informs Annual Meeting. Phoenix, AZ. Nov. 4th, 2018.
- Amaya, J.** Proven Strategies for Improving Freight System Performance in your Livable Community. National Capital Region Freight Forum. Washington D.C., October 31st, 2017.
- Amaya, J.** Holguin-Veras, J, and Wojtowicz, J. Urban Freight Initiatives: State of the Art and State of the Practice. International Urban Freight Conference (I-NUF). Long Beach, CA, Oct 19th, 2017. *Selected to be part of Examining and Addressing Urban Goods Movement Needs during FHWA Talking Freight webinar on Nov. 15, 2017.*
- Amaya J.** and Wojtowicz, J. Integrating Freight in Livable Communities. Mobilize Santiago. Santiago, Chile, June 29th, 2017.
- Holguin-Veras, J., **Amaya J.** Public Sector Policies and Initiatives. Urban Freight Transport: A Global Perspective. Cali, Colombia, May 18th, 2017.
- Amaya J.** Freight Parking in New York City. Urban Freight Transport: A Global Perspective. Cali, Colombia, May 18th, 2017.
- Amaya J.** Freight Demand Management and its Role in Sustainable Supply Chains. Informs Annual Meeting. Nashville, TN, Nov. 15th, 2016.

- Amaya J.**, Perez, C., and Holguin-Veras, J. Ecuador Earthquake Relief Support: Observations From Fieldwork Research. Informs Annual Meeting. Nashville, TN, Nov. 13th, 2016.
- Amaya J.**, Holguin-Veras, J., Jaller, M., Aros-Vera, F., Encarnacion, T. and Ramirez, D. Lessons from Catastrophic Events for Disaster Response Logistics: Updates from the Gorkha Earthquake. Congreso Panamericano de Ingeniería de Tránsito, Transporte y Logística. Mexico City, Sept. 28th, 2016
- Amaya J.**, Holguin-Veras, J. and Wojtowicz, J. Improving Freight Systems in Metropolitan Areas. Congreso Panamericano de Ingeniería de Tránsito, Transporte y Logística. Mexico City, Sept. 28th, 2016
- Amaya J.** and Wojtowicz, J. Public Sector Initiatives to Improve Urban Freight. Beijing, Sept. 19th, 2016
- Amaya J.** Districting in Post-Disaster Environments. POMS 27th Annual Conference. Orlando, FL. May 6th, 2016.
- Amaya J.** Integrating Freight in Livable Communities. APA National Planning Conference. S550 #9000536. Phoenix, AZ. April 4th, 2016.
- Amaya J.** Districting in Post-Disaster Environments. Workshop on Doctoral Research in Transportation Modeling. 95th Annual Conference of the Transportation Research Board in Washington, DC. Jan 10th-14th, 2016.
- Amaya J.** Public Sector Initiatives Sustainable Urban Freight Systems Part II. Informs Annual Conference. Philadelphia, November 2nd, 2015.
- Amaya J.**, Wojtowicz, J. and Holguin-Veras, J. Public Sector Policies and Initiatives. Improving Freight Systems in Metropolitan Areas: From New York City to Across the Globe. New York, Sept. 16th, 2015.

DOCTORAL DISSERTATION COMMITTEES

Ivan Serrano Arrieta (Civil Engineering – Uninorte). Committee Member	2021-2024
Maira Delgado-Lindeman (Civil Engineering – Uninorte). Committee Member	2020-2022
<i>Strategic Planning of On-street Parking Facilities considering Passenger and Freight Vehicles Competition. Placement: Universidad de Cantabria, Spain</i>	
Chih-Yuan Chu (Industrial, Manufacturing and Systems Engineering – Iowa State)	2020-2022
Committee Member - <i>Text Analytics for Supply Chain Risk Management. Placement: Tunghai University</i>	
Feizar Rueda (Industrial Engineering – Universidad Nacional). Committee Member	2017-2021
<i>Coordinación de Actores en la Respuesta Logística Humanitaria de Ultima Milla por Medio de Reglas de Prioridad. Placement: Universidad Distrital “Francisco Jose de Caldas”, Colombia</i>	
Bo Lan (Supply Chain Management – Iowa State). Committee Member	2017-2020
<i>Traveling Salesman Problem with Time Windows and Drones. Placement: West Virginia University</i>	

PROFESSIONAL MEMBERSHIPS AND SERVICE ACTIVITIES

<i>Guest Editor - Cities: The International Journal of Urban Policy and Planning</i>	
Special Issue: The growing importance of freight for city planning and design	
Co-Edited with Michael Browne and Ivan Sanchez-Diaz	2019-2021
<i>Editorial Review Board</i>	
Journal of Operations Management	Since 2023
Latin American Transport Studies	Since 2023
<i>Invited reviewer of:</i>	
Production and Operations Management Journal	Since 2024
Journal of Business Logistics	Since 2023
Transportation Research Part C: Emerging Technologies	Since 2023
Transportation Research Part D: Transport and Environment	Since 2023
Transportation Research Record	Since 2020
Socio-Economic Planning Sciences	Since 2019
Journal of Humanitarian Logistics and Supply Chain Management	Since 2018
Transportation Research Part E: Logistics and Transportation Review	Since 2017
Transportation Research Part A: Policy and Practice	Since 2015

Journal of Operations Management	2015-2023
<i>Affiliate member of:</i>	
Production and Operations Management Society (POMS)	Since 2013
College of Humanitarian Operations and Crisis Management (HOCM-POMS)	Since 2013
Track Chair – HOCM College	2024-2025
VP of Meetings – HOCM College	2021-2023
<i>Member of:</i>	
E-Commerce Taskforce (PennDOT)	Since 2024
Pan-American Society of Transportation Research (PANAM)	Since 2022
Advisory Council of Equity, Inclusion, and Diversity	
Freight Transport and Logistics Committee	
TRB Urban Freight Standing Committee (AT025)	Since 2018
TRB Standing Committee on Disaster Response, Emergency Evacuations, and Business Continuity (AMR20)	Since 2021
Co-Chair - Subcommittee on Disaster Relief (AMR20-1)	2018-2023
<i>National Academies Panels:</i>	
TRB - NCHRP Project Panel 08-176	Since 2023
TRB - NCHRP Project Panel 23(13)-06	Since 2021
TRB - BTSCR Project Panel BTS-10	2019-2023
TRB - NCHRP Project Panel 08-117	2017-2019

EVENTS ORGANIZED

<i>SC&IS Department Seminar Series – Penn State University</i>	2022-2023
<i>Co-organized with Brian Lee</i>	
<i>College of Humanitarian Operations and Crisis Management (HOCM-POMS)</i>	
<i>11th Mini-Conference (Field Trip to City of Orlando Emergency Operations Center)</i>	May 2023
<i>10th Mini-Conference (Virtual)</i>	Apr. 2022
<i>Catedra Fulbright: Using Analytical Methods for Supply Chains</i>	Sept. 2018
Workshop that brings together Industry and Academia to discuss methodologies to improve logistics and supply chains in the City of Cartagena, Colombia. Sponsored by Fulbright-Colombia and US Embassy	
<i>Regional Workshops on Sustainable Urban Freight Systems</i>	2013-2016
Workshop that brings together Public and Private Sector representatives from each city in which the event has been held to discuss main issues pertaining to local Urban Freight Systems (UFS). Locations: India (Chennai, Mumbai, and New Delhi); Brazil (Sao Paulo); Colombia (Bogota and Barranquilla); Canada (Toronto); Mexico (Mexico City); Chile (Santiago); Australia (Melbourne and Sydney).	
<i>Pan-American Advanced Studies Institute on Sustainable Urban Freight Systems</i>	Aug. 2014
Two-week summer school sponsored by the National Science Foundation to strength research between American and Latin-American researchers in Urban Freight issues.	
<i>Workshop: “Improving Freight System Performance in Metropolitan Areas”</i>	Jan. 2014
Two-day workshop that brought together Public and Private Sector representatives around the U.S. to discuss main issues pertaining to Urban Freight Systems. Locations: Washington, DC.	

PROFESSIONAL EXPERIENCE

Finance and Administrative Manager 2004-2005
Inverpal, Colombia.

Customer Service Coordinator 2001-2002
Muebles Jamar, Colombia

COMMUNITY OUTREACH

Panelist,
Colombian Diaspora Symposium, Penn State University 2024

Panelist, INFORMS Annual Meeting
Academic Job Search Panel, Minority Issues Forum 2023
Undergraduate Students Workshop – Research Pathways, Minority Issues Forum

Panelist,
Latinx Student Initiative Fall Retreat, Iowa State University 2019

Speaker,
Transportation Student Association, Iowa State University
Freight Demand Management and Its Role in Sustainable Supply Chains 2017

Panelist,
Multicultural Business Network, Iowa State University 2017, 2019
Society of Women Engineers and the Women at Rensselaer Mentor Program 2016
Leveraging Strategic Thinking, Leadership, and Partnerships in STEM Education, Health Care, and Industry

Panelist,
Admissions Office, Rensselaer Polytechnic Institute
Graduate Women in STEM 2015
Graduate Student Life 2014

Speaker,
International Student Center (ISSB), University of Florida 2008-2011
Latin American Culture