

Ivan Sanchez-Diaz

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Education

PH.D. IN TRANSPORTATION ENGINEERING

May 2014

Rensselaer Polytechnic Institute, Troy, NY

Dissertation: A Time-Dependent Freight Tour Synthesis Model—An Integrative Freight Demand Model.

MASTER OF SCIENCE IN APPLIED MATHEMATICS

August 2014

Rensselaer Polytechnic Institute, Troy, NY

MASTER OF SCIENCE IN CIVIL ENGINEERING

May 2012

Rensselaer Polytechnic Institute, Troy, NY

Thesis: Assessing Locational and Spatial Effects on Freight Trip Attraction.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING – ACADEMIC EXCELLENCE GOLD MEDAL

Universidad del Norte, Barranquilla, Colombia

September 2008

Work experience

CHALMERS UNIVERSITY OF TECHNOLOGY, Gothenburg, SE

Associate Professor, Tenured Faculty Position

January 2020-Present

CHALMERS UNIVERSITY OF TECHNOLOGY, Gothenburg, SE

Senior Lecturer, Tenured Faculty Position

August 2016-Present

INDEPENDENT CONSULTANT, Gothenburg, SE

December 2015-Present

CHALMERS UNIVERSITY OF TECHNOLOGY, Gothenburg, SE

Postdoctoral Research Associate

September 2014-July 2016

RENSSELAER POLYTECHNIC INSTITUTE, Troy (NY), USA

Research Assistant - VREF Center of Excellence for Sustainable Urban Freight Systems

June 2010- May 2014

JACK REILLY, PROJECT FOR THE WORLD BANK, Washington DC, USA

Consultant Assistant

January 2011- July 2011

RENSSELAER POLYTECHNIC INSTITUTE, Troy (NY), USA

Teaching Assistant: Strength of Materials and Introduction to Engineering Analysis courses

August 2009- May 2010

CAS ENGINEERS, Bogota, Colombia

Project Coordinator

June 2008- July 2009

Teaching experience and education

COURSE LECTURER AND EXAMINER:

- Chalmers University of Technology.
 - Supply Chain Management Seminars II, Spring 2017 and 2018
 - Sustainable Transportation, Fall 2018, Fall 2019
 - Supply Chain Analytics, Spring 2020 (scheduled)
- National University of Colombia
 - Urban Planning and City Logistics, Summer 2018

LECTURER:

- Chalmers University of Technology.
 - Quantitative research methods, Fall 2014, Fall 2015, Spring 2016
 - Management of physical distribution, Spring 2015, Spring 2016
 - Sustainable Transportation, Fall 2015, Fall 2016
 - Supply Chain Management Seminars I, Fall 2016
- Logistics and Environment Research Network Sweden PhD course (Lund, KTH, Chalmers Universities).

- City Logistics, Fall 2016

GUEST LECTURER

- Universita Roma Tre, Italy (visiting scholar):
 - Freight Trip Generation: Models and Applications, Spring 2018.
- University of California at Davis (guest lecturer):
 - Transportation Systems Planning-OD Synthesis models, Fall 2017
- University of Iowa, USA (guest lecturer):
 - Modeling Urban Freight Generation: Studying Commercial Establishments' Freight Needs, Fall 2017
- École de Mines de Saint-Étienne, France (guest lecturer):
 - Modeling Urban Freight Generation: Studying Commercial Establishments' Freight Needs, Fall 2017
- Rensselaer Polytechnic Institute:
 - Transportation Network Analysis, Spring 2014
 - Transportation Economics, Spring 2014
 - Transportation systems planning, Fall 2012 and Fall 2013
 - Freight transportation systems, Spring 2013

TEACHING EDUCATION:

- HBS Global Colloquium on Participant-Centered Learning, Harvard Business School, 2019.
- Diploma of Higher Education, University of Gothenburg, 2015-2017.
- Preparing future faculty workshop, Rensselaer Polytechnic Institute, 2013.
- Pedagogy for teaching assistants, Rensselaer Polytechnic Institute, 2009.
- Pedagogy for teaching assistants, Universidad del Norte, 2005.

Scholarly accomplishments

Refereed journal publications (published/in print)

1. **Sanchez-Diaz**, Palacios-Argüello, Levandi, Mardberg and Basso (2020). "A time-efficiency study of medium duty trucks delivering in urban environments." *Sustainability*. 12(1), 425. EISSN 2071-1050. DOI: <https://doi.org/10.3390/su12010425>
2. **Sanchez-Diaz** (2019). "The Potential of Implementing Urban Freight Strategies in the Accommodation and Food Services Sector." *Transportation Research Record: Journal of the Transportation Research Board*. (In print). ISSN 0361-1981. DOI: <https://doi.org/10.1177/0361198118796926>. SJR: 0,52.
3. Basso, Kulcsar, Egardt, Lindroth and **Sanchez-Diaz** (2019). "Energy consumption estimation integrated into the Electric Vehicle Routing Problem." *Transportation Research Part D: Transport and Environment*. (In print). ISSN: 1361-9209. SJR: 1,36.
4. Holguin-Veras, Encarnacion, Ramirez-Rios, He, Kalahasthi, Perez-Guzman, **Sanchez-Diaz** and Gonzalez-Calderon. "A multi-class tour-flow-model and its role in multi-class freight tour synthesis." *Transportation Science* (in print). ISSN: 15265447. SJR: 2,54.
5. Gonzalez-Feliu and **Sanchez-Diaz** (2018). "The influence of aggregation level and category construction on estimation quality for freight trip generation models" *Transportation Research Part E: Logistics and Transportation Review*. (In print). DOI: <https://doi.org/10.1016/j.tre.2018.07.007>. SJR: 1,90.
6. Holguin-Veras, Amaya-Leal, **Sanchez-Diaz**, Wojtowicz and Browne (2018) "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*. (In print). DOI: <https://doi.org/10.1016/j.tra.2018.10.037> SJR: 1,94.
7. Holguin-Veras, Amaya-Leal, **Sanchez-Diaz**, Wojtowicz and Browne (2018) "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*. (In print). DOI: <https://doi.org/10.1016/j.tra.2018.10.036>. SJR: 1,94.
8. Heitz, Dablanc, Olsson, **Sanchez-Diaz**, Woxenius (2018). "Spatial patterns of logistics facilities in Gothenburg, Sweden" *Journal of Transport Geography*. (In print) DOI: <https://doi.org/10.1016/j.jtrangeo.2018.03.005>. SJR: 1,57.
9. Gonzalez-Calderón, **Sanchez-Diaz**, Sarmiento and Holguin-Veras (2018). "Characterization and analysis of metropolitan freight patterns in Medellín, Colombia" *European Transport Research Review*. (In print). ISSN: 1866-8887. DOI: <https://doi.org/10.1186/s12544-018-0290-z>. SJR: 0,51.
10. Holguin-Veras, Hodge, Wojtowicz, Singh, Wang, Jaller, Aros-Vera, Ozbay, Weeks, Replogle, Ukegbu, Ban, Brom, Campbell, **Sanchez-Diaz** et al. (2018). "The New York City Off-Hour Delivery Program: A business and community-friendly sustainability program" *Interfaces*. Vol 48 (1), pp. 70-86. DOI: <https://doi.org/10.1287/inte.2017.0929>. SJR: 0,64.
11. **Sanchez-Diaz** (2017). "Modeling urban freight generation: A study of commercial establishments' freight needs" *Transportation Research Part A: Policy and Practice*. Vol 102, pp. 3-17. DOI: <http://dx.doi.org/10.1016/j.tra.2016.06.035>. SJR: 1,94.
12. **Sanchez-Diaz**, Géoren and Brolinson (2017). "Shifting urban freight deliveries to the off-peak hours: A Review of Theory and Practice." *Transport Reviews*. Vol. 37 (4), pp. 521-543. DOI: <http://dx.doi.org/10.1080/01441647.2016.1254691>. SJR: 1,68.

13. Holguin-Veras, Wang, **Sanchez-Diaz**, Campbell, Hodge, Jaller and Wojtowicz (2017). "Fostering unassisted off-hour deliveries: The role of incentives" *Transportation Research Part A: Policy and Practice*. Vol. 102, pp. 172-187. DOI: <https://doi.org/10.1016/j.tra.2017.04.005>. SJR: 1,94.
14. Malik, **Sanchez-Diaz**, Tiwari, Woxenius (2017). "Urban freight parking practices: the cases of Gothenburg (Sweden) and Delhi (India)." *Research in Transportation Business & Management*. Vol. 24, pp. 37-48. DOI: <https://doi.org/10.1016/j.rtbm.2017.05.002>. SJR: 0,78.
15. **Sanchez-Diaz**, Holguin-Veras and Wang (2016). "an exploratory analysis of spatial effects on freight trip attraction" *Transportation*. Vol. 43 (1), pp. 170-196. DOI: [10.1007/s11116-014-9570-1](https://doi.org/10.1007/s11116-014-9570-1). SJR: 1,91.
16. Manzano dos Santos and **Sanchez-Diaz** (2016). "Exploring carriers perceptions about city logistics initiatives¹." *Transportation Research Record: Journal of Transportation Research Board*. Vol. 2547, pp. 66-73. ISSN 0361-1981. DOI: <https://doi.org/10.3141/2547-10> SJR: 0,52
17. Holguin-Veras and **Sanchez-Diaz** (2016). "Freight demand management and the potential of receiver-led consolidation programs." *Transportation Research Part A: Policy and Practice*. Vol. 84, pp. 109-130. DOI: [http://doi.org/10.1016/j.tra.2015.06.013](https://doi.org/10.1016/j.tra.2015.06.013). SJR: 1,94.
18. Holguin-Veras, **Sanchez-Diaz**, and Reim (2016). "ETC adoption and time-of-travel choice in response to pricing: a stated preference investigation." *Transportation*. Vol 42 (2), pp. 273-299. DOI: [10.1007/s11116-014-9575-9](https://doi.org/10.1007/s11116-014-9575-9). SJR: 1,91.
19. **Sanchez-Diaz**, Holguin-Veras and Ban (2015). "A time-dependent freight tour synthesis model." *Transportation Research Part B: Methodological*. 78, pp. 144-168. DOI: [10.1016/j.trb.2015.04.007](https://doi.org/10.1016/j.trb.2015.04.007). SJR: 3,11.
20. Jaller, **Sanchez-Diaz**, and Holguin-Veras (2015), "Identifying freight intermediaries: implications for freight trip generation modeling." *Transportation Research Record: Journal of Transportation Research Board*. 2478, pp. 48-56. ISSN 0361-1981. DOI: <http://dx.doi.org/10.3141/2478-06>. SJR: 0,52.
21. Jaller, Gonzalez-Calderón, Yushimito and **Sanchez-Diaz** (2015). "An investigation of the effects of critical infrastructure on urban mobility in the city of Medellín." *International Journal of Critical Infrastructures*. Vol. 11, Issue 3, pp. 213-232. ISSN: 1475-3219. DOI: [10.1504/IJCIS.2015.072158](https://doi.org/10.1504/IJCIS.2015.072158). SJR: 0,17.
22. Holguin-Veras, **Sanchez-Diaz**, C. Lawson, Jaller, Campbell, Levinson and Shin (2014). "transferability of freight trip generation models." *Transportation Research Record: Journal of Transportation Research Board*. Vol. 2379, pp. 1-8. ISSN 0361-1981. DOI: <http://trid.trb.org/view.aspx?id=1241343>. SJR: 0,52.
23. Lawson, Holguin-Veras, **Sanchez-Diaz**, Jaller, Campbell, and Powers (2012) "Estimated generation of freight trips based on land use" *Transportation Research Record: Journal of Transportation Research Board*. Vol. 2269, pp.65-72. ISSN 0361-1981. <https://journals.sagepub.com/doi/pdf/10.3141/2269-08>. SJR: 0,52.
24. Holguin-Veras, **Sanchez**, Gonzalez-Calderón, Sarmiento, and Thorson (2011). "time-dependent effects on parameters of freight demand models: an empirical investigation." *Transportation Research Record: Journal of Transportation Research Board*. Vol. 2224, pp. 42-50 ISSN 0361-1981. SJR: 0,52. <http://trb.metapress.com/content/f49q02048445w136/?p=13e0df462a8b466fbaa0fb5f1854b5d2&pi=5>
25. Holguin-Veras, **Sanchez-Diaz**, and Gonzalez-Calderón (2012). "Freight demand estimation from secondary sources. case study: Manhattan". *DYNA*, Vol. 80, N. 182, pp. 200-209. ISSN 0012-7353. http://dyna.unalmed.edu.co/en/ediciones/182/deleditor/Del_Editor182.pdf. SJR: 0,17
26. Gonzalez-Calderón, Posada, and **Sanchez-Diaz** (2012) "The need for congestion pricing in Medellín: an economic perspective" *DYNA*, Vol. 79, N. 171, pp. 123-131. ISSN 0012-7353. <http://dyna.unalmed.edu.co/ediciones/171/articulos/a16v79n171/a16v79n171.pdf>. SJR: 0,17
27. Gonzalez-Calderón, **Sanchez-Diaz**, and Holguin-Veras (2012). "An empirical investigation on the impacts of spatial and temporal aggregation of empty trips models". *Journal of "Facultad de Ingenieria Universidad de Antioquia"*. ISSN 0120-6230. SJR: 0,17.

Chapters in books

28. **Sanchez-Diaz** and Gonzalez-Feliu (2019). "Implications of activity classification aggregation in urban freight trip generation linear models." Ch. 2 in *Handbook of Research on Urban and Humanitarian Logistics*. Gonzalez-Feliu, Vargas-Florez, Chong, Padilla-Solis. IGI-Global. ISBN: 9781522581604.
29. Palacios-Argüello, **Sanchez-Diaz**, González-Feliu and Gondran (2019). "The role of food hubs in enabling local sourcing for school canteens" in *Food Supply Chains*. Eds. Aktas and Bourlakis. Springer International Publisher. ISBN: 9783030340643.
30. Behrends, **Sanchez-Diaz**, Pernestål Brenden (2018). "The socio-economic benefits of off-peak hour distribution." Pages 231- 252, Ch. 11 in *Urban Logistics: Management, Policy and Innovation in a Rapidly Changing Environment*. M. Browne, Behrends, Woxenius, Giuliano and Holguin-Veras. Kogan Page, ISBN: 9780749487775.
31. Holguin-Veras, **Sanchez-Diaz**, Jaller, Aros-Vera, Campbell, Wang, Hodge, (2014). "Off-hour Delivery Programs." Ch. 10 in *City Logistics: Mapping the Future*. E. Taniguchi and R Thompson. CRC Press, ISBN: 978-1-4822-0889-4.
32. Holguin-Veras, Jaller, **Sanchez-Diaz**, Campbell and Lawson (2013). "Freight generation and freight trip generation models" in *Freight Transport Modelling*. Elsevier, ISBN: 9780124104006.
33. Holguin-Veras, Gonzalez-Calderón, **Sanchez-Diaz**, Jaller and Campbell (2013). "Vehicle trip estimation models" in *Freight Transport Modelling*. Elsevier Insights, ISBN: 9780124104006.
34. Gonzalez-Calderón, Jaller and **Sanchez-Diaz** (2012). "Innovative use of technologies for parking management at university campuses," in *Innovative Ways of Knowledge Representation and Management*, Universidad de Medellín.

¹ Recipient of Best Paper Award from the Urban Freight Committee at TRB 2016. Paper was part of Evandro's PhD Thesis.

35. Holguin-Veras, Thorson, Wang, Xu, Gonzalez-Calderon, **Sanchez-Diaz**, Mitchell (2012). “urban freight tour models: state of the art and practice,” in *Freight Transport Modeling*, Ed. Emerald.

Selected refereed conference papers

36. Pettersson, Magnusson, **Sanchez-Diaz** and Alexandersson (2019). “Exploring the potential of drones for urban deliveries in the healthcare sector.” International and National Urban Freight Conference. Long Beach, California, USA.
37. Palacios-Argüello, **Sanchez-Diaz**, Gonzalez-Feliu, and Gondran (2018). “Towards a logistic organization for organic-local product supply. Case of study: School canteen distribution system.” Information Systems, Logistics and Supply Chain Conference. Lyon, France.
38. **Sanchez-Diaz**, Gonzalez-Feliu, and Ambrosini (2016). “Assessing the implications of aggregating data by activity-based categories for urban freight trip generation modeling.” Information Systems, Logistics and Supply Chain Conference. Bordeaux, France.
39. Malik, **Sanchez-Diaz**, Tiwari, Woxenius (2016). “Urban Freight Parking Practices: The Cases of Gothenburg (Sweden) and Delhi (India).” World Conference of Transportation Research WCTR. Shanghai, China.
40. Heitz, Dablan, Olsson, **Sanchez-Diaz** and Woxenius (2016). “Spatial patterns of logistics facilities in the Gothenburg Metropolitan Area, Sweden.” World Conference of Transportation Research WCTR. Shanghai, China.
41. Gonzalez-Feliu, **Sanchez-Diaz**, and Ambrosini (2016). “Aggregation Level, Variability and Linear Hypotheses for Urban Delivery Generation Models.” 95th Transportation Research Board Annual Meeting. Washington D.C., USA.
42. **Sanchez-Diaz**, Campbell, Jaller, Holguin-Veras, and Lawson (2015) “The Role of Classifications Systems in Freight Trip Attraction Modeling.” 94th Transportation Research Board Annual Meeting. Washington D.C., USA.
43. Holguin-Veras, **Sanchez-Diaz** and Browne (2015). “Freight Demand Management: the Role in Sustainable Urban Freight Systems” City Logistics 2015. Tenerife (Spain).
44. **Sanchez-Diaz**, Holguin-Veras, and Ban (2014). “A Time-Dependent Freight Tour Synthesis Model.” 93rd Transportation Research Board Annual Meeting. Washington D.C., USA.
45. Holguin-Veras and **Sanchez-Diaz** (2014). “Receiver-Led Consolidation Programs: Rationale and Potential.” 93rd Transportation Research Board Annual Meeting. Washington D.C., USA.
46. Jaller, **Sanchez-Diaz**, and Holguin-Veras (2014), “Freight Trip Attraction, Freight Trip Production, and the Role of Freight Intermediaries” 93rd Transportation Research Board Annual Meeting. Washington D.C., USA.
47. Jaller, **Sanchez-Diaz**, Holguin-Veras and Lawson (2014). “Area Based Freight Trip Generation Models.” 93rd Transportation Research Board Annual Meeting. Washington D.C., USA.
48. **Sanchez-Diaz**, Holguin-Veras, and Ban (2013). “Dynamic Freight Origin-Destination Synthesis Considering Trip Chaining Behavior.” The 13th World Conference on Transportation Research. Rio de Janeiro, Brazil.
49. **Sanchez-Diaz**, Holguin-Veras, and Wang (2013). “Assessing the Role of Land-use, Network Characteristics and Spatial Effects on Freight Trip Attraction.” 92nd Transportation Research Board Annual Meeting. Washington D.C., USA.
50. Holguin-Veras, **Sanchez-Diaz**, Lawson, Jaller, Campbell, Levinson and Shin (2012). “Transferability of Freight Trip Generation Models.” 92nd Transportation Research Board Annual Meeting. Washington D.C., USA.
51. **Sanchez-Diaz**, Holguin-Veras and Wang (2012). “Assessing the Role of Accessibility, Land Use Characteristics and Spatial Effects on Freight Trip Attraction”. XVII Congreso Panamericano de Ingenieria de Transito, Transporte y Logistica. Santiago de Chile, Chile.
52. Lawson, Holguin-Veras, **Sanchez-Diaz**, Jaller, Campbell, and Powers (2012) “Estimation of Freight Trip Generation Based on Land Use.” 91st Transportation Research Board Annual Meeting. Washington D.C., USA.
53. Campbell, Jaller, **Sanchez-Diaz**, Holguin-Veras, and Lawson (2012) “Comparison Between Industrial Classification Systems in Freight Trip Generation (FTG) Modeling.” 91st Transportation Research Board Annual Meeting.” Washington D.C., USA.
54. Holguin-Veras, **Sanchez-Diaz**, Gonzalez-Calderón, Sarmiento, and Thorson (2011). “Time-Dependent Effects on Parameters of Freight Demand Models: an Empirical Investigation”. 90th Transportation Research Board Annual Meeting. Washington. D.C., USA.

Non-refereed publications

55. **Sanchez-Diaz** and Browne (2018) Accommodating urban freight in city planning. Editorial of Topical Collection. European Transport Research Review. DOI: <https://doi.org/10.1186/s12544-018-0327-3>
56. Lindkvist, Klasson, Behrends, **Sanchez-Diaz**, Ma, Jin, Börjesson and Wallinder (2018) Ring road logistics – efficient use of infrastructure. Stockholm. FFI. https://closer.lindholmen.se/sites/default/files/content/resource/files/ffi_slutrapport_ring_road_logistics_180430.pdf
57. Brenden, Anastasios, Fu, Rumpel, **Sanchez-Diaz**, Behrends, et al. (2017) Off-peak City Logistics–A Case Study in Stockholm. Stockholm. <http://www.diva-portal.org/smash/record.jsf?pid=diva2%3A1105183&dswid=-3816>
58. **Sanchez-Diaz**, Holguin-Veras and Jaller (2015). “Freight Trip Generation Modeling.” Research Brief. Volvo Research and Educational Foundations (VREF). <http://www.vref.se/publications/researchbriefs/researchbriefsuf/freighttripgenerationmodellling.5.40ced5d514ce8228d4ca0128.html>
59. Holguin-Veras, Amaya-Leal, Wojtowicz, Jaller, Gonzalez-Calderón, **Sanchez-Diaz**, Wang, Haake, Rhodes, Hodge, Frazier, Nick, Dack, Casinelli, and Browne (2015). NCFRP Report 33: Improving Freight System Performance in Metropolitan Areas: A Planning Guide. National Cooperative Freight Research Program. Washington, D.C., Transportation Research Board: 212. <http://www.trb.org/Main/Blurbs/172487.aspx>
60. Holguin-Veras, Wojtowicz, Wang, Jaller, Ban, Aros-Vera, Campbell, Yang, **Sanchez-Diaz**, Amaya, Gonzalez-Calderón, Marquis, Hodge, Maguire, Marsico, Zhang, Rothbard, Ozbay, Morgul, Iyer, Xie and Ozguven (2013). Integrative Freight

Demand Management in the New York City Metropolitan Area: Implementation Phase, Rensselaer Polytechnic Institute, New York City Department of Transportation, Rutgers University: 459. <https://rosap.ntl.bts.gov/view/dot/28737>

61. Holguin-Veras, Jaller, **Sanchez-Diaz**, Wojtowicz, Campbell, Levinson, Lawson, Powers and Tavasszy (2012). NCHRP Report 739 / NCFRP Report 19: Freight Trip Generation and Land Use. National Cooperative Highway Research Program / National Cooperative Freight Research Program. Washington D.C., Transportation Research Board of the National Academies: 165. <http://www.trb.org/Main/Blurbs/168396.aspx>
62. Holguin-Veras, **Sanchez-Diaz**, Gonzalez-Calderón, and Brom (2012). “Freight Demand Estimation from Secondary Sources,” Research Report published by the University Transportation Research Center, January 2012. <http://www.utrc2.org/research/assets/201/FinalReportFreightDemandEstimation1.pdf>

Funded projects

1. *Using data analytics for smart loading zones management in cities* (2019). Funded by Vinnova (Sweden’s innovation agency) (Principal Investigator).
2. *Logistics for the marginalized: The quest for equitable access to goods in the transport system of the future* (2019-2020). Funded by the Area of Advance Transport, Chalmers (Principal Investigator).
3. *Sustainable e-commerce deliveries, the potential of pick-up points* (2019-2021). Funded by the Area of Advance Transport, Chalmers (Principal Investigator).
4. *Autonomous and Connected Trucks for Electric Distribution (ACTED)* (2018-2019). Funded by the Area of Advance Transport, Chalmers (Principal Investigator).
5. *Urban Freight Platform III* (2019-2021). Funded by the Volvo Research and Educational Foundations. (Steering committee- Project co-leader).
6. *Analyse the potential of urban freight initiatives on hotels using data from Stockholm* (2018). Funded by the Area of Advance Transport, Chalmers- Profile: Transport Efficiency and Customer Adapted Logistics (Principal Investigator).
7. *Ring road logistics* (2016-2018). Funded by VGR and Vinnova. (Leader for Work Package 3a-b: Time valuation and value of reliability for freight).
8. *Urban Freight Platform II* (2016-2018). Funded by the Volvo Research and Educational Foundations. (Steering committee- Project co-leader).
9. *Exploring the Relationship between Urban Form and Freight Trip Generation* (2017). Funded by the Area of Advance Transport- Profile: Transport Efficiency and Customer Adapted Logistics (Principal Investigator).
10. *Off-peak City Distribution, Research Stage 1* (2015). Funded by FFI, Vinnova. (Leader for Work Package 1: Mapping and compilation).
11. *Data Fusion in Urban Modeling and Visualization* (2015-2016). Chalmers Internal funding: ICT-SEED & BIG DATA 2015. (Co-PI).
12. *Freight Trip Generation Modeling for the City of Stockholm* (2015-2016). Funded by the Traffic and the Environmental Offices of the City of Stockholm. In collaboration with Atkins Sverige AB. (External consulting).
13. *Postdoctoral Fellowship for Research on Urban Freight- Urban Freight Platform* (2014-2016). Funded by the Volvo Research and Educational Foundations. (Postdoctoral fellow).
14. *Action Plan and Priorities for National Urban Freight Policy in Colombia* (2014). Funded by USAID and the Ministry of Transportation of Colombia. (Research team).
15. *Freight Trip Generation and Land Use* (2012-2015). Jointly funded as NCHRP Project 08-80 (Phases I and II). (Research team).
16. *Improving Freight System Performance in Metropolitan Areas* (2013-2014). Funded as NCFRP 38 Project. (Research team).
17. *Integrative Freight Demand Management in the New York City Metropolitan Area: Implementation Phase* (2010-2012). Funded by the United States Department of Transportation. (Research team).

Service

JOURNALS PEER REVIEWER:

Transportation Research Part B: Methodological, ISSN: 0191-2615; Transportation Research Part A: Policy and Practice, ISSN: 0965-8564; Transportation Research Part E: Logistics and Transportation Review, ISSN: 1366-5545; Transport Reviews, ISSN 14645327; Transportation, ISSN 0049-4488; Transportation Research Record: Journal of the Transportation Research Board, ISSN 0361-1981; Network and Spatial Economics, ISSN: 1566-113X; European Transport Research Review, ISSN: 1867-0717; European Journal of Transport and Infrastructure Research, ISSN 15677141.

EDITOR:

- Member of the Editorial Board. European Transport Research Review (2017-2020).
- Guest editor for special issue: *The growing importance of freight for city planning and design*. Cities (2020)
- Guest editor for topical collection: *Accommodating Urban Freight in City Planning*. European Transport Research Review (2017)

CONFERENCES ORGANIZATION, SCIENTIFIC COMMITTEE, SESSION CHAIR AND KEYNOTES:

- Keynote speaker: 1st French-Swedish Workshop on Smart Cities and Mobility, Paris (France) 2019: “What's new in research and innovation on Smart City Logistics? French and Swedish points of view”

- Keynote speaker: International Conference on Production, Logistics and Transport, Dortmund (Germany) 2019: “State of the Art and Practice of Urban Freight Management”
- Keynote speaker: V International Congress of Industries and Organizations, Bogota (Colombia) 2018: “Urban Freight Initiatives: State of the Art and Practice”
- Scientific committee member, 7th International Conference on Information Systems, Logistics and Supply Chain, 2018.
- Organizing committee, VREF Conference on Urban Freight, Gothenburg-Sweden, 2016 and 2018.
- Chair for session on *Off-hour deliveries*. VREF Conference on Urban Freight, Gothenburg-Sweden, 2018.
- Chair for session on *Using data and models for informed decision-making in urban freight planning*. VREF Conference on Urban Freight, Gothenburg-Sweden, 2016.
- Chair for session on *Demand forecasting and estimation for smart sustainable urban logistics systems*. Information Systems, Logistics and Supply Chain, Bordeaux-France, 2016.
- Chair for session on *Modeling the Last Mile*. International Urban Freight Conference, Long Beach-USA, 2015.
- Chair for session on *Freight behavioral research and its role for freight demand management*. VREF Conference on Urban Freight, Gothenburg-Sweden, 2015.

PROFESSIONAL CONTRIBUTIONS AND LEADERSHIP POSITIONS:

- Steering Group of the VREF Urban Freight Platform, Sweden.
- Member of TRB Standing Committee Urban Freight Transportation (AT025), USA.
- Papers Review Coordinator of TRB Committee Urban Freight Transportation (AT025), 2018.
- Friend of TRB Committees: Freight Transportation Data (ABJ90), Freight Transportation Planning and Logistics (AT015), and Transportation Demand Forecasting (ADB40), USA.
- Young Member Roundtable, Transportation & Development Institute (2011), USA.
- Independent Council Representative, Rensselaer Polytechnic Institute (2011), USA.
- Civil Engineering Students Council Representative, Universidad del Norte (2008), Colombia.
- Member of the American Society of Civil Engineers, and the Transportation & Development Institute, USA (2010-2015).
- Member of the National Team, AIESEC in France (2007), France.
- Member of the Local Executive Board, AIESEC Uninorte (2005-2006), Colombia.

Other competences and distinctions

AWARDS, FELLOWSHIPS, DISTINCTIONS, AND AFFILIATIONS:

- Recipient of the Franz Edelman Finalist Award for Achievement in Operations Research and the Management Sciences, awarded by INFORMS for the participation in “The New York City Off-peak Hours Deliveries Project.” (2017)
- Recipient of Best Paper Award for “Exploring Carriers’ Perception about City Logistics Initiatives”, TRB Urban Freight Transportation Committee (2016)
- Paper “The Potential of Implementing Urban Freight Strategies in the Accommodation and Food Services Sector” selected as one of the Best Papers from TRB Urban Freight Transportation Committee (2018) and presented at lectern session “Best Papers in Urban Freight Transportation Research: See What's Possible”
- Awarded for his *Outstanding Contribution in Reviewing* by the Editors of the Journals Transportation Research Part E (2017) and Transportation Research Part A (2018)
- Recipient of Research and Teaching Assistantship Award, Rensselaer Polytechnic Institute (2009 to 2014)
- Academic Excellence Gold Medal, highest recognition given by Universidad del Norte for academic performance (2008)
- Top ten at National State Graduate Exam, Ministry of Education of Colombia (2008)
- Dean’s List, Universidad del Norte (2003 to 2008)
- Recipient of VREF Study Visit Grant, Chalmers University of Technology, Gothenburg, Sweden and Westminster University, London, England (2014).
- Passed the NCEES Fundamentals of Engineering Exam (2013)
- Invited Participant at World Bank Model Development Simulation, Paris (2007)
- Recipient of Best Vice President Award, AIESEC in Colombia (2007)
- Alumnus AIESEC
- “Baccalaureat Scientifique” with honors mention, French Ministry of Education (2003)
- Honor Role, Lycée Français Louis Pasteur (1997-2003)

LANGUAGES:

- English (Fluent)
- French (Fluent)
- Spanish (Native)
- Swedish (Basic)