



FRANCESC SORIGUERA

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Personal data:

Place and date of birth: Santa Coloma de Queralt (Tarragona), may 6th, 1978.

Highest degree: PhD in Civil Engineering, Barcelona Civil Engineering School, UPC-BarcelonaTech.

Researcher Indexes: *Subject Area (Scopus):* Engineering, Computer Science, Social Sciences, Decision Sciences, Mathematics.

- *H Index (WOS – Thompson Reuters):* 9
- *H Index (Scopus):* 8
- *H Index (Google Scholar):* 11
- *i-10 Index (Google Scholar):* 19

GRADUATE EDUCATION (Including mobility)

- 2015: Visiting Researcher. Hosted by Michael Sørensen. TØI, *Institute of Transportation Economics – Norwegian Center for Transport Research*. Department of Safety, Security and Environment. Oslo, Norway.
- 2011-2012: Visiting Scholar. Hosted by the Professor Michael Cassidy. Civil and Environmental Engineering Department. University of California, Berkeley.
- 2010: Ph.D. in Civil Engineering. Civil Engineering School. UPC – BarcelonaTech. . Thesis title: Highway Travel Time Estimation with Data Fusion. Grade: Excellent with Cum Laude distinction. VIII Abertis Prize winner.
- Fall 2007: Visiting Student Researcher. Hosted by the Professor Carlos F. Daganzo. Civil and Environmental Engineering Department. University of California, Berkeley.
- 2005-2006. Master program in public and private management of infrastructures. Technical University of Catalonia Foundation. Department of Transport and Regional Planning. Barcelona Civil Engineering School. UPC – BarcelonaTech.
- 2004-2005. Postgraduate diploma in Management of Port Operations. Technical University of Catalonia Foundation. Department of Nautical Sciences and Engineering. UPC – BarcelonaTech.

UNDERGRADUATE EDUCATION

- 1996-2004. Civil Engineering. Barcelona Civil Engineering School, UPC – BarcelonaTech.
- 2003. Master thesis. “*Container Terminal Optimization Using Queuing Theory*”. Directed by Professor F. Robusté and Professor R. Juanola. Finalist in the 1st ABERTIS Award in Management of Transportation Infrastructures.

- 2002. 5th year of the Civil Engineering degree completed in the University of Liverpool, Department of Civil Engineering, Liverpool, UK.

AWARDS AND HONORS

- 2009-2020. 7 research awards and 6 honorable mentions / finalist positions for research works under F. Soriguera direction.
- 2015. Recipient of a mobility fellowship under the *NILS Science and Sustainability Programme for Individual Mobility* (ABEL-IM-2014B). Amount: 8.768 €.
- 2014. Finalist. ITF-OECD Young Researcher of the year Award. Paper: "*On the Value of Highway Travel Time Information Systems*". This award aims to highlight the importance of transport research for sound transport policy formulation and implementation and to foster closer links between transport policy and research. It is open to young researchers under 35 years of age who have undertaken their research in a member country of the International Transport Forum (OECD). <http://2014.internationaltransportforum.org/node/196526>
- 2013. Outstanding Ph.D. Thesis Award. Best Ph.D. thesis of the course 2010-2011. Civil Engineering category. UPC – BarcelonaTech. (*Premi extraordinari de doctorat, convocatòria 2013*)
- 2012. II Young Researcher Award. *X Congreso de Ingeniería del Transporte*. Best paper presented by researchers under 35 years old.
- 2011. VIII Abertis Prize Winner. "*Highway travel time estimation with data fusion*". Best 2010 Doctoral Thesis in Spain in the field of transportation infrastructure management.

WORK EXPERIENCE

- 2016-Present: Associate Professor. Department of Civil and Environmental Engineering. Barcelona Civil Engineering School. UPC – BarcelonaTech.
- 2007-2015: Assistant Professor. Department of Transport and Regional Planning. Barcelona Civil Engineering School. UPC – BarcelonaTech.
- 2005-2012: Project manager in the Center for Innovation in Transport (CENIT), developing research projects related to traffic operations, transport modeling, operational research and maritime transportation.
- 2003-2005: Engineer in the consultancy "Tècnica i Construcció de Catalunya", designing different types of public works for Catalan and Spanish Administrations.
- 2001: Training in CELSA steel company (Compañía Española de Laminación S.A.).

PUBLICATIONS: BOOKS & JOURNALS

1. Soriguera, F. and M. Martínez-Díaz. (2020). "Freeway Travel Time Information from Input-Output Vehicle Counts: a Drift Correction Method Based on AVI Data". *IEEE Transactions on Intelligent Transportation Systems*. In Press.. DOI 10.1109/TITS.2020.2992300. (Impact Factor = 6.319, 2019 Journal Citation Reports (Clarivate Analytics 2020). Rank: 4/37 in the category of Transportation Science and Technology; 2/132 Civil Engineering; 26/266 Engineering, Electrical & Electronic).

2. Sala, M. and F. Soriguera. (2020). "Lane-changing and freeway capacity: A Bayesian inference stochastic model" *Computer-Aided Civil and Infrastructure Engineering*, Vol. 35 (7), pp. 719-733. ISSN 1093-9687; 1467-8667 (Online). DOI 10.1111/mice.12529. (Impact Factor = 8.552, 2019 Journal Citation Reports (Clarivate Analytics 2020). Rank: 5/109 (Computer Science, Interdisciplinary Applications); 1/63 (Construction & Building Technology); 1/134 (Engineering, Civil); 1/36 (Transportation Science & Technology).
3. Soriguera, F. and E. Jiménez. (2020) "A continuous approximation model for the optimal design of public bike-sharing systems". *Sustainable Cities and Society*, Vol. 52, 101826. ISSN 2210-6707. DOI [10.1016/j.scs.2019.101826](https://doi.org/10.1016/j.scs.2019.101826). (Impact Factor = 5.268, Journal Citation Reports (Clarivate Analytics 2020). Rank: 6 out of 63 in the category of Construction & Building Technology; Rank: 25 out of 103 in the category of Energy & Fuels; Rank: 10 out of 35 in the category of Green & Sustainable Science & Technology).
4. Sala, M., F. Soriguera, K. Huilca and V. Vilaplana (2019). "Measuring traffic lane-changing by converting video into space-time still images". *Computer-Aided Civil and Infrastructure Engineering*, Vol. 34 (6), pp. 488-505. ISSN 1093-9687; 1467-8667 (Online). DOI 10.1111/mice.12430. (Impact Factor = 8.552, 2019 Journal Citation Reports (Clarivate Analytics 2020). Rank: 5/109 (Computer Science, Interdisciplinary Applications); 1/63 (Construction & Building Technology); 1/134 (Engineering, Civil); 1/36 (Transportation Science & Technology).
5. Martínez-Díaz, M., F. Soriguera and I. Pérez. (2019). "Autonomous driving: A bird's eye view". *IET Intelligent Transport Systems*, Vol. 13 (4), pp. 563 – 579. Print ISSN 1751-956X, Online ISSN 1751-9578. DOI 10.1049/iet-its.2018.5061. (Impact Factor = 2.950, 2019 Journal Citation Reports (Clarivate Analytics 2020). Rank: 19 out of 37 (Q2) in the category of Transportation Science and Technology.
6. Martínez-Díaz, M., F. Soriguera and I. Pérez. (2018). "Technology: A necessary but not sufficient condition for future personal mobility". *Sustainability*, Vol. 10 (11), 4141. ISSN 2071-1050. DOI [10.3390/su10114141](https://doi.org/10.3390/su10114141). (Impact Factor = 2.592, Thomson Reuters 2018 JCR Science Edition. Category rank: 105/250 (Q2) in 'Environmental Sciences' (SCIE); 20/35 (Q3) in 'Green & Sustainable Science & Technology' (SCIE); 44/116 (Q2) in 'Environmental Studies' (SSCI), 3/6 (Q2) in 'Green & Sustainable Science & Technology' (SSCI)).
7. Soriguera, F. I. Martínez, M. Sala and M. Menéndez. (2017). "Effects of Low Speed Limits on Freeway Traffic Flow". *Transportation Research Part C*, Vol. 77, pp. 257-274. ISSN 0968-090X. DOI 10.1016/j.trc.2017.01.024. (Impact Factor = 3.968, Thomson Reuters 2017 JCR Science Edition. Rank: 6 out of 35 in the category of Transportation Science and Technology).
8. Soriguera, F. (2016) "Estimación del valor de la información del tiempo de viaje en autopista". *Carreteras*, Vol. 206, pp. 6-19. ISSN 0212-6389. (SNIP Impact Factor = 0.03, Scopus 2016; SJR = 0.127, SCImago Journal Rankings 2016. Rank: Q4 in the category of Civil and Structural Engineering).
9. Plana, J., F. Soriguera and A. Hegyi. (2016) "Effects of Dynamic Speed Limits on a Dutch Freeway", *Transportation Research Record: Journal of the Transportation Research Board*. No. 2560, TRB, National Research Council, Washington, D.C., pp. 87-96. ISSN 0361-1981. ISBN 978-0-309-29507-9. DOI 10.3141/2560-10. (Impact

Factor = 0.592, Thomson Reuters 2016 JCR Science Edition Rank: 29 out of 34 in the category of Transportation Science and Technology).

10. Soriguera, F. (2016) "*Highway travel time estimation with data fusion*" Springer Tracts on Transportation and Traffic, vol. 11, 212 pages. Springer-Verlag Berlin Heidelberg. eBook ISBN 978-3-662-48858-4. Hardcover ISBN 978-3-662-48856-0. DOI 10.1007/978-3-662-48858-4. <http://www.springer.com/gp/book/9783662488560>
11. Soriguera, F., M. Sala and I. Martínez. (2015) "Nuevos datos de tráfico en autopista con límites de velocidad variable". *Carreteras*, Vol. 203, pp. 34-49. ISSN 0212-6389. (SNIP Impact Factor = 0.03, Scopus 2015; SJR = 0.111, SCImago Journal Rankings 2015).
12. Soriguera, F. (2014) "On the Value of highway travel time information systems". *Transportation Research Part A*, Vol. 70, pp. 294–310. ISSN 0965-8564. DOI 10.1016/j.tra.2014.10.005. (Impact Factor = 2.789, Rank: 6 out of 33 in the category of Transportation Science and Technology Thomson Reuters 2014 JCR Science Edition, Rank: 3 out of 29 in the category of Transportation Thomson Reuters 2013 JCR Social Science Edition).
13. Torné, J.M., F. Soriguera and N. Geroliminis. (2014) "On the consistency of freeway macroscopic merging models". *Transportation Research Record: Journal of the Transportation Research Board*, No. 2422, TRB, National Research Council, Washington, D.C., pp. 34-41. ISSN 0361-1981. ISBN 978-0-309-29507-9. DOI 10.3141/2422-04. (Impact Factor = 0.544, Thomson Reuters 2014 JCR Science Edition Rank: 26 out of 33 in the category of Transportation Science and Technology).
14. Soriguera, F. (2013) "Estimación del tiempo de viaje en autopista mediante fusion de datos". *Carreteras*, Vol. 188, pp. 26-40. ISSN 0212-6389. (SNIP Impact Factor = 0.025, Scopus 2012. SJR = 0.138, SCImago Journal Rankings 2013).
15. Soriguera, F. and F. Robusté. (2013) "Freeway Travel-Time Information: Design and Real-Time Performance Using Spot-Speed Methods". *IEEE Transactions on Intelligent Transportation Systems*. Vol. 14 (2), pp. 731 - 742. ISSN 1524-9050. DOI 10.1109/TITS.2012.2234454. (Impact Factor = 2.472, Thomson Reuters 2013 JCR Science Edition. Rank: 6 out of 32 in the category of Transportation Science and Technology).
16. Soriguera, F., J.M. Torné and D. Rosas. (2013) "Assessment of Dynamic Speed Limit Management on Metropolitan Freeways". *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*. Vol. 17 (1), pp. 78-90. ISSN 1547-2450 (Paper), 1547-2442 (Electronic). DOI 10.1080/15472450.2012.719455. (Impact Factor = 1.250, Thomson Reuters 2013 JCR Science Edition. Rank: 17 out of 32 in the category of Transportation Science and Technology).
17. Soriguera, F. (2012) "Deriving Traffic Flow Patterns from Historical Data". *ASCE – Journal of Transportation Engineering*, Vol. 138 (12), pp. 1430-1441. ISSN 0733-947X (Paper), 1943-5436 (Electronic). DOI 10.1061/(ASCE)TE.1943-5436.0000456. (Impact Factor = 0.863, Thomson Reuters 2012 JCR Science Edition. Rank: 16 out of 30 in the category of Transportation Science and Technology; Rank: 57 out of 122 in the category of Civil Engineering).
18. Soriguera, F. and F. Robusté. (2011) "Requiem for freeway travel time estimation methods based on blind speed interpolations between point measurements". *IEEE*

- Transactions on Intelligent Transportation Systems*. Vol. 12 (1), pp. 291-297. ISSN 1524-9050. DOI 10.1109/TITS.2010.2095007. (Impact Factor = 3.452, Thomson Reuters 2011 JCR Science Edition. Rank: 1 out of 28 in the category of Transportation Science and Technology).
19. Soriguera, F. and F. Robusté. (2011) "Estimation of traffic stream space-mean speed from time aggregations of double loop detector data". *Transportation Research Part C*, Vol. 19 (1), pp. 115-129. ISSN 0968-090X. DOI 10.1016/j.trc.2010.04.004. (Impact Factor = 1.957, Thomson Reuters 2011 JCR Science Edition. Rank: 5 out of 28 in the category of Transportation Science and Technology).
 20. Soriguera, F. and F. Robusté. (2011) "Highway travel time accurate measurement and short-term prediction using multiple data sources". *Transportmetrica*, vol. 7(1), pp. 85-109. ISSN 1944-0987 (electronic) 1812-8602 (paper). DOI 10.1080/18128600903244651. (Impact Factor = 2.038, Rank: 4 out of 26 in the category of Transportation Science and Technology Thomson Reuters 2009 JCR Science Edition, Rank: 2 out of 18 in the category of Transportation Thomson Reuters 2009 JCR Social Science Edition).
 21. Soriguera, F., F. Robusté et al. (2010) "*Improving reliability on surface transport networks*". OECD/JTRC, OECD publishing, Paris. ISBN 978-92-82-10241-1. <http://dx.doi.org/10.1787/9789282102428-en>
 22. Soriguera, F., D. Rosas and F. Robusté. (2010) "Travel time measurement in closed toll highways". *Transportation Research Part B*, vol. 44 (10), pp. 1242–1267. ISSN 0191-2615. DOI 10.1016/j.trb.2010.02.010. (Impact Factor = 2.268, Rank: 2 out of 26 in the category of Transportation Science and Technology Thomson Reuters 2009 JCR Science Edition, Rank: 1 out of 18 in the category of Transportation Thomson Reuters 2009 JCR Social Science Edition). Was ranked 11 in the Top 25 Hottest Articles for the journal in the period October – December 2010 (www.sciencedirect.com).
 23. Soriguera, F., L. Thorson and F. Robusté (2007) "Travel time measurement using toll infrastructure". *Transportation Research Record: Journal of the Transportation Research Board*, No. 2027, TRB, National Research Council, Washington, D.C., pp. 99-107. ISSN 0361-1981. ISBN 978-0-309-10454-8. DOI 10.3141/2027-13. (Impact Factor = 0.206, Thomson Reuters 2007 JCR Science Edition).
 24. Soriguera, F., D. Espinet and F. Robusté (2007) "Optimization of the internal transport cycle in a marine container terminal managed by straddle carriers". *Transportation Research Record: Journal of the Transportation Research Board*, No. 2033, TRB, National Research Council, Washington, D.C., pp. 21-30. ISSN 0361-1981. ISBN 978-0-309-10460-9. DOI 10.3141/2033-04. (Impact Factor = 0.206, Thomson Reuters 2007 JCR Science Edition).
 25. Robuste, F., L. Thorson, M. Estrada, F. Soriguera and D. Cuscurita (2007) "*Guia per l'elaboració de plans de mobilitat en polígons industrials*" Beta Editions, Quadern del Pacte Industrial Collection – 5, ISBN 978-84-7091-426-3, 175 pages 21.2x29.7 cm. (in Catalan)
 26. Soriguera, F., D. Espinet and F. Robusté (2006). "A simulation model for straddle carrier operational assessment in a marine container terminal". *Journal of Maritime Research*. Spanish Society of Maritime Research, Santander, Vol. III. Nº. 2, pp. 19-34. ISSN 1697-4840.

27. Soriguera, F., F. Robusté, R. Juanola and A. López Pita (2006). "Optimization of handling equipment in the container terminal of the Port of Barcelona, Spain". *Transportation Research Record: Journal of the Transportation Research Board*, No. 1963, TRB, National Research Council, Washington, D.C., pp. 44-51. ISSN 0361-1981. ISBN 0-309-09972-2. DOI 10.3141/1963-06.

PUBLICATIONS IN CONFERENCE PROCEEDINGS

1. Jiménez, E. and F. Soriguera (2020). A new dynamic repositioning approach for bike sharing systems. *Transportation Research Procedia* 47, pp. 227–234. ISSN 2352-1465. DOI 10.1016/j.trpro.2020.03.093
2. Sala, M. and F. Soriguera. (2020). Macroscopic modeling of freeway platooning under mixed traffic conditions. *Transportation Research Procedia* 47, pp. 163–170. ISSN 2352-1465. DOI 10.1016/j.trpro.2020.03.089
3. Sala, M. and F. Soriguera (2019). "Lane-Changing in Freeway: A Stochastic Relation with Capacity", Paper # 19-02861, *Proceedings of the TRB 98th Annual Meeting*. Washington, D. C. January 13-17th, 2019.
4. Soriguera, F., Casado, V and E. Jiménez (2018). "A simulation model for public bike-sharing systems", *Transportation Research Procedia* 33, pp. 139–146. ISSN 2352-1465. DOI 10.1016/j.trpro.2018.10.086
5. Sala, M. and F. Soriguera (2018). "Freeway lane changing: some empirical findings", *Transportation Research Procedia* 33, pp. 107–114. ISSN 2352-1465. DOI 10.1016/j.trpro.2018.10.082
6. Martínez, M. and F. Soriguera (2018). "Autonomous vehicles: theoretical and practical challenges", *Transportation Research Procedia* 33, pp. 275-282. ISSN 2352-1465. DOI 10.1016/j.trpro.2018.10.103
7. Soriguera, F. and E. Miralles (2017). "Driver feedback mobile app: a tool for road safety improvement", Paper # 17-01510, *Proceedings of the TRB 96th Annual Meeting*. Washington, D. C. January 8-12th, 2017.
8. Soriguera, F. and E. Miralles (2016). "Driver feedback mobile app", *Transportation Research Procedia* 18, pp. 264–271. ISSN 2352-1465. DOI 10.1016/j.trpro.2016.12.036.
9. Soriguera, F., M. Martínez and I. Pérez (2016). "Highway travel time information system based on cumulative count curves and new tracking technologies", *Transportation Research Procedia* 18, pp. 44–50. ISSN 2352-1465. DOI 10.1016/j.trpro.2016.12.006.
10. Plana, J., F. Soriguera and A. Hegyi (2016) "Effects of Dynamic Speed Limits on a Dutch Freeway", Paper # 16-2648, *Proceedings of the TRB 95th Annual Meeting*. Washington, D. C. January 10-14th, 2016.
11. Soriguera, F., I. Martínez and M. Menéndez (2015) "Experimenting with Dynamic Speed Limits on Freeways", Paper # 15-2729, *Proceedings of the TRB 94th Annual Meeting*. Washington, D. C. January 11-15th, 2015.
12. Soriguera, F. and M. Sala (2014). "Freeway lab: testing dynamic speed limits", *Procedia - Social and Behavioral Sciences* 160, pp. 35–44. ISSN 1877-0428. DOI 10.1016/j.sbspro.2014.12.114.

13. Torné, J.M., D. Ramoneda and F. Soriguera (2014). "Empirical evidences of dynamic speed limit impact on a metropolitan freeway", *Procedia - Social and Behavioral Sciences* 162, pp. 80–89. ISSN 1877-0428. DOI 10.1016/j.sbspro.2014.12.188.
14. Torné, J.M., F. Soriguera and N. Geroliminis (2014) "An integrated traffic modelling for ramp metering with dynamic speed limit strategies" *Proceedings of the 20th Conference of the International Federation of Operational Research Societies*. Barcelona, July 13-18th, 2014.
15. Torné J.M., F. Soriguera and N. Geroliminis (2014). "On the Consistency of Freeway Macroscopic Merging Models", Paper # 14-0324, *Proceedings of the TRB 93rd Annual Meeting*. Washington, D. C. January 12-16th, 2014.
16. Torné J.M., F. Soriguera and N. Geroliminis (2014). "Coordinated Active Traffic Management Freeway Strategies Using Capacity-Lagged Cell Transmission Model", Paper # 14-3941, *Proceedings of the TRB 93rd Annual Meeting*. Washington, D. C. January 12-16th, 2014.
17. Soriguera, F. (2013). "Freeway Travel Time Information in Real Time: New Opportunity for Spot Speed Methods", Paper #13-3743, *Proceedings of the TRB 92nd Annual Meeting*. Washington, D. C. January 13-17th, 2013.
18. Soriguera, F. (2013). "Value of Freeway Travel Time Information", Paper #13-5308, *Proceedings of the TRB 92nd Annual Meeting*. Washington, D. C. January 13-17th, 2013.
19. Torné J.M., F. Soriguera and N. Geroliminis (2012). "Modifications of asymmetric cell transmission model for modeling variable speed limit strategies", *Proceedings of the 1st European Symposium on Quantitative Methods in Transportation Systems. LATSIS Symposium 2012*. Lausanne, September 4-7, 2012. <http://hdl.handle.net/2117/20098>
20. Soriguera, F. and V. Jodar (2012). "Valor de la información del tiempo de viaje por carretera", *Proceedings of the X Congreso de Ingeniería del Transporte*, Granada. June 20-22, 2012. Edited by Juan de Oña et al., ISBN 978-84-338-5402-5 (in Spanish).
21. Torné, J.M. and F. Soriguera (2012). "Active traffic management strategies: state of the art review", *Proceedings of the X Congreso de Ingeniería del Transporte*, Granada. Edited by Juan de Oña et al., ISBN 978-84-338-5402-5.
22. Soriguera, F. and D. Rosas (2012). "Deriving traffic demand patterns from historical data", Paper #12-3417, *Proceedings of the TRB 91st Annual Meeting*. Washington, D. C. January 22-26th, 2012.
23. Torné J.M., D. Rosas and F. Soriguera (2011). "Evaluation of speed limit management on C-32 highway access to Barcelona", Paper #11-2397, *Proceedings of the TRB 90th Annual Meeting*. Washington, D. C. January 23-27th, 2011.
24. Soriguera, F. (2010). "Gestión variable del límite de velocidad en autopistas metropolitanas: un análisis conceptual", *Proceedings of the IX Congreso de Ingeniería del Transporte*, Madrid, edited by Francisco Aparicio Izquierdo, ISBN 978-84-96398-41-2 (in Spanish).
25. Torné, J.M., D. Rosas and F. Soriguera (2010). "Evaluación de la gestión variable del límite de velocidad en la autopista metropolitana C-32 en el acceso a Barcelona",

- Proceedings of the IX Congreso de Ingeniería del Transporte*, Madrid, edited by Francisco Aparicio Izquierdo, ISBN 978-84-96398-41-2 (in Spanish).
26. Soriguera, F. and F. Robuste (2010). "Traffic stream space-mean speed estimation from common double loop detector aggregated data", Paper #10-3028, *Proceedings of the TRB 89th Annual Meeting*. Washington, D. C. January 10-14th, 2010.
 27. Soriguera, F. and F. Robuste (2010). "Insights on freeway travel time estimation methods based on punctual speed measurements", Paper #10-3059, *Proceedings of the TRB 89th Annual Meeting*. Washington, D. C. January 10-14th, 2010.
 28. Soriguera, F., D. Abeijón and F. Robusté (2008). "Fusing road travel time data", *Proceedings of the International Workshop on Traffic Data Collection & ITS Standardization*, Barcelona. September 8-9th, 2008.
 29. Soriguera, F., E. Molins and E. Alberich (2008). "Metodología de elaboración de patrones de intensidad de tráfico", *Proceedings of the VIII Congreso de Ingeniería del Transporte*, La Coruña, edited by the Civil Engineering Association (Galicia). ISBN 978-84-380-0394-7. (in Spanish).
 30. Cuscirita, D., F. Soriguera, M. Estrada and L. Thorson (2008). "Metodología de elaboración de planes de movilidad en polígonos industriales o centros de trabajo compactos", *Proceedings of the VIII Congreso de Ingeniería del Transporte*, La Coruña, edited by the Civil Engineering Association (Galicia). ISBN 978-84-380-0394-7. (in Spanish).
 31. Rosas, D., F. Soriguera and E. Molins (2008) "Construcción de patrones de tiempo de viaje por carretera", *Proceedings of the VIII Congreso de Ingeniería del Transporte*, La Coruña, edited by the Civil Engineering Association (Galicia). ISBN 978-84-380-0394-7. (in Spanish).
 32. Soriguera, F., D. Abeijón, L. Thorson and F. Robuste (2008). "Highway travel time data fusion", Paper #08-2282, *Proceedings of the TRB 87th Annual Meeting*. Washington, D. C. January 13-17th, 2008.
 33. Soriguera, F., D. Rosas, D. Abeijón, L. Thorson and F. Robuste (2007). "Highway travel time estimation from multiple data sources", *Proceedings of the 11th World Conference on Transport Research*. University of California, Berkeley, CA. June 24-28th 2007.
 34. Soriguera, F., L. Thorson and F. Robusté (2006). "Travel time estimation using toll collection data", *Proceedings of the 11th Meeting of the EURO Working Group on Transportation*, pp. 207-212, edited by the Technical University of Bari and the EURO working Group on Transportation. ISBN 88-901798-2-1.
 35. Soriguera, F., R. Colombo and L. Thorson (2006). "Análisis de la monitorización existente en las carreteras catalanas", *Proceedings of the VII Congreso de Ingeniería del Transporte*, Ciudad Real, edited by Jose Maria Menendez, Begoña Guirao and Ana Rivas. ISBN 84-689-8340-3. (in Spanish).
 36. Soriguera, F., L. Thorson, J.A. Grau and F. Robusté (2006). "Bases de un sistema de medición y previsión del tiempo de viaje por carretera en Cataluña", *Proceedings of the VII Congreso de Ingeniería del Transporte*, Ciudad Real, edited by Jose Maria Menendez, Begoña Guirao and Ana Rivas. ISBN 84-689-8340-3. (in Spanish).
 37. Espinet, D., F. Soriguera and F. Robusté (2006) "Optimization of the internal transport cycle in a marine container terminal managed by straddle carriers",

Proceedings of the 3rd International Conference Maritime Transport 2006, pp. 371-381, edited by Juan Olivella, Roger Marcet and Víctor García. ISBN 84-689-8505-8.

38. Soriguera, F., F. Robusté and R. Juanola (2004). "Optimización de operaciones en una terminal marítima de contenedores", *Proceedings of the VI Congreso de Ingeniería del Transporte*, pp. 399-406, edited by Emilio Larrodé and Luis Castejón. ISBN 84-609-1362-9. (in Spanish).

PARTICIPATION IN CONGRESSES, COURSES, SEMINARS & INVITED TALKS

1. Seminar entitled "*Project COOP – Cooperative freeway driving strategies in a mixed environment – driverless and traditional vehicles.*" Presenters: I. Pérez, F. Soriguera, M. Martínez, M. Sala and F. Robusté. Universidade da Coruña, October 17th, 2019.
2. *22nd EURO Working Group on Transportation Meeting (EWGT) 2019*. Barcelona, 18th to 20th Sep., 2019. Papers: "A simple and generally applicable data fusion algorithm for the short-term prediction of travel times in real time", M. Martínez-Díaz and F. Soriguera; "Macroscopic modeling of connected autonomous vehicles platoons under mixed traffic conditions", M. Sala and F. Soriguera; "A new dynamic repositioning approach for bike sharing systems" Enrique Jiménez and F. Soriguera. Member of the Scientific Committee. Member of the Organizing Committee. Chairman in 1 session.
3. Improving teaching skills course. *The flipped classroom: tools and resources for its implementation*. (La classe invertida: eines i recursos per implementar-la) Institut de Ciències de l'Educació ICE-UPC. June 3rd & 17th, 2019. (8h course)
4. *3rd Scientific Campus of the Spanish Transportation Engineering Forum* (3^{er} Campus Científico del Foro de Ingeniería del Transporte). 4th & 5th Apr., 2019; Residencia Lucas Olazábal, Polytechnic University of Madrid (UPM), Cercedilla (Spain). Presentations under the direction of Prof. F. Soriguera: 1) Macroscopic Modeling of Freeway Platooning under Mixed Traffic Conditions. Author: Marcel Sala. 2) Modeling Bike-sharing Repositioning. Author: Enrique Jiménez. Award to E. Jiménez for the best scientific contribution in the Campus FIT.
5. *TRB 98th Annual Meeting*. Washington, D. C. January 13-17th, 2019. Paper: "On the stochastic relationship between lane-changing and freeway capacity" (19-02861), M. Sala and F. Soriguera.
6. *3rd Symposium on Urban Mobility Challenges: MaaS, data and xG in our cities*. Presentation: Data & Technology: A necessary but not sufficient condition for sustainable mobility. Presenter: F. Soriguera. CARNET (Cooperative Automotive Research Network). Barcelona Civil Engineering School, November 12th, 2018.
7. Course on "Mobility managing using simulation as a support tool: Introduction to the PTV Group software packages" (*Gestión de la movilidad apoyada en modelos de simulación. Introducción al software de PTV Group*). Taught by Mr. Ignacio Galindo, PTV Group. Barcelona Civil Engineering School, October 17th and 18th, 2018.
8. Course on *Bayesian analysis with OpenBUGS and JAGS*. Dr. Enrique Castillo. Spanish "Real Academia de Ingeniería" and "Real Academia de Ciencias Exactas, Físicas y Naturales". Duration of 4h. Barcelona Civil Engineering School, June 21st and 22nd, 2018.

9. *XIII Congreso de Ingeniería del Transporte*. Gijón, June 6-8, 2018. Papers: "A simulation model for public bike-sharing systems", F. Soriguera, V. Casado and E. Jiménez; "Empirical findings regarding lane changing activity on Barcelona B-23 freeway", M. Sala and F. Soriguera; II PTV Group Young Researcher Award. to M. Sala for the best paper presented by researchers under 35 years old. (*Premio PTV Group al Joven Investigador sobre "Modelización y Simulación de Sistemas de Transporte, Servicios y Nuevas Tecnologías"*). "Introduction of autonomous vehicles in traffic flow: theoretical and practical challenges", M. Martínez-Díaz and F. Soriguera. Member of the Scientific Committee. Chairman in 2 sessions.
10. Teaching improvement course. *Optimization of professors' tasks* (Optimització del treball del professorat) Institut de Ciències de l'Educació ICE-UPC. October 26th, 2017. (5h course)
11. *14th NECTAR International Conference: Transport in a networked society*. 31th May – 2nd June, 2017; Polytechnic University of Madrid (UPM), Madrid (Spain). Paper: "Optimization of the strategical design in a one-way car sharing system". F. Soriguera and E. Jiménez.
12. *2nd Scientific Campus of the Spanish Transportation Engineering Forum* (2^o Campus Científico del Foro de Ingeniería del Transporte). 30th & 31st May, 2017; Polytechnic University of Madrid (UPM), Madrid (Spain). Honorable mention (accesit) to M. Martínez in the best contribution award of the Campus FIT for the work entitled "*Predicción de tiempos de viaje en autopista mediante la fusión de datos proporcionados por detectores de lazo con los suministrados por nuevas tecnologías de seguimiento*" (in Spanish) by M. Martinez and F. Soriguera.
13. Improving teaching and learning course. *Basic tools for teaching ludification and activity organization*. (Eines bàsiques de ludificació a la docència i a l'organització d'activitats) Institut de Ciències de l'Educació ICE-UPC. April 27th, 2017. (3h course)
14. *TRB 96th Annual Meeting*. Washington, D. C. January 8-12th, 2017. Paper: "Driver feedback mobile app: a tool for road safety improvement" (17-01510) F. Soriguera and E. Miralles.
15. Improving teaching and learning course. *Tools for developing a teaching APP using MIT App inventor*. (Eines bàsiques per crear una aplicació docent amb MIT App Inventor) Institut de Ciències de l'Educació ICE-UPC. November 15th, 2016. (4h course)
16. *XII Congreso de Ingeniería del Transporte*. Valencia, June 7-9, 2016. Papers: "Driver feedback mobile app: a tool for road safety improvement", Francesc Soriguera and Enric Miralles. DOI: 10.4995/CIT2016.2016.4066; "Measuring traffic flow and lane changing from semi-automatic video processing", Marcel Sala and Francesc Soriguera; "Highway travel time information system based on cumulative count curves and new tracking technologies", Francesc Soriguera, Margarita Martínez-Díaz and Ignacio Pérez. DOI: 10.4995/CIT2016.2016.3209. Member of the Scientific Committee. Chairman in 1 session.
17. *1st Symposium on Management of Future motorway and urban Traffic Systems*. Chania (Greece) June 2-3, 2016. Paper: "Effects of low speed limits on motorway traffic: some empirical findings", Francesc Soriguera, Irene Martínez, Marcel Sala and Mónica Menéndez. Member of the Scientific Committee.

18. *6º Encuentro de la DGT con Investigadores Nacionales*. Dirección General de Tráfico. Madrid, May 18th, 2016.
19. *TRB 95th Annual Meeting*. Washington, D. C. January 10-14th, 2016. Paper: "Effects of Dynamic Speed Limits on a Dutch Freeway" (16-2648) J. Plana, F. Soriguera and A. Hegyi.
20. *Curso de Formación de Evaluadores de la DGT*. Training course for the DGT staff – Spanish Traffic Administration. Invited talk: New Technologies in Traffic Management. October 14-15th, 2015.
21. *TØI Seminar Series. Transportøkonomisk institutt*. Invited talk: Intelligent Transportation: The Missing Link. June 11th, 2015.
22. *TØI Seminar Series. Transportøkonomisk institutt*. Invited talk: Driver Feedback Mobile App: A Tool for Road Safety Improvement. May 19th, 2015.
23. *CMU Pedralbes Seminar Series*. Invited talk: Intelligent Transportation: The Missing Link. February 26th, 2015.
24. *TRB 94th Annual Meeting*. Washington, D. C. January 11-15th, 2015. Paper: "Experimenting with Dynamic Speed Limits on Freeways" F. Soriguera, I. Martínez and M. Menéndez
25. *XI Short Course on Dynamic Traffic Flow Modelling and Control*. Chania, November 3rd- 7th, 2014. By Prof. Markos Papageorgiou. Dynamic Systems and Simulation Laboratory, Technical University of Crete.
26. *AIC Next – Creativity, Innovation and Values 2014*. October 23rd 2014, Amorebieta-Etxano (Bizkaia). Invited talk: Intelligent Transportation Systems. Promoted by the Automotive Intelligence Center.
27. *20th Conference of the International Federation of Operational Research Societies*. Barcelona, July 13-18th, 2014. Paper: "An integrated traffic modelling for ramp metering with dynamic speed limit strategies", J.M Torné, F. Soriguera and N. Geroliminis.
28. *XI Congreso de Ingeniería del Transporte*. Santander, June 9-11, 2014. Paper: "Freeway lab: testing dynamic speed limits", F. Soriguera and M. Sala. Chairman in 1 session.
29. *XVIII Congreso Panamericano de Ingeniería de Tránsito, Transporte y Logística (PANAM 2014)*. Santander, June 11-13, 2014. Paper: "Empirical evidences of dynamic speed limit impact on a metropolitan freeway", J.M. Torné, D. Ramoneda and F. Soriguera
30. *TRB 93rd Annual Meeting*. Washington, D. C. January 12-16th, 2014. Papers: "On the Consistency of Freeway Macroscopic Merging Models" and "Coordinated Active Traffic Management Freeway Strategies Using Capacity-Lagged Cell Transmission Model" Torné J.M., F. Soriguera and N. Geroliminis.
31. *TRB 92nd Annual Meeting*. Washington, D. C. January 13-17th, 2013. Paper: "Freeway Travel Time Information in Real Time: New Opportunity for Spot Speed Methods" F. Soriguera. Paper: "Value of Freeway Travel Time Information" F. Soriguera.
32. Seminar "*Ex-ante and ex-post assessment of the taxi&bus lane of the northern A1 motorway in Paris*". Barcelona, October 26th, 2012. By Simon Cohen, IFSTTAR,

Professor of Traffic Engineering, École des Ponts ParisTech, and Director of abertis Chair on Transport Infrastructure Management in France. Organized by the Center for Innovation in Transport – CENIT.

33. Short Course on “*Mobility in Smart cities*”. Barcelona, September 17 – 21, 2012. “Traffic Management in Smart Cities”, F. Soriguera.
34. *1st European Symposium on Quantitative Methods in Transportation Systems. LATSIS Symposium 2012*. Lausanne, September 4-7 2012. Paper: “Modifications of asymmetric cell transmission model for modeling variable speed limit strategies”, Torné, J.M., F. Soriguera and N. Geroliminis.
35. Course on “*Innovaciones en el diseño y operación de sistemas de transporte público urbano*” (Design and operational innovations in urban public transportation systems). Barcelona, September, 3rd – 4^h, 2012. By J. C. Muñoz. Pontificia Universidad Católica de Chile. Organized by the Center for Innovation in Transport – CENIT.
36. Improving teaching and learning course. *Introduction to MATLAB programming*. Institut de Ciències de l'Educació ICE-UPC. July 2nd – July 4th, 2012. (16h course)
37. *X Congreso de Ingeniería del Transporte*. Granada, June 20-22, 2012. Paper: “Valor de la información del tiempo de viaje por carretera”, F. Soriguera and V. Jodar. Paper: “Active traffic management strategies: state of the art review”, J.M. Torne and F. Soriguera. Chairman in 2 sessions.
38. Improving teaching and learning course. *Interactive teacher speaking skills and strategies*. Institut de Ciències de l'Educació ICE-UPC. May 15th – June 19th, 2012. (18h course)
39. *TRB 91st Annual Meeting*. Washington, D. C. January 22-26th, 2012. Paper: “Deriving traffic demand patterns from historical data”. F. Soriguera and D. Rosas.
40. Seminar “*Roadway safety management: concepts and tools*”. Barcelona, June 23rd, 2011. By Andrew P. Tarko. Purdue University, USA. Organized by the Center for Innovation in Transport – CENIT.
41. Course on “*Traffic flow phenomena: Data, models and measures*”. Barcelona, May, 24th – 27th, 2011. By S. P. Hoogendoorn and J.W.C. van Lint. Delft University of Technology. Organized by the Center for Innovation in Transport – CENIT.
42. *TRB 90th Annual Meeting*. Washington, D. C. January 23-27th, 2011. Paper: “Evaluation of speed limit management on C-32 highway access to Barcelona” J.M. Torné, D. Rosas, and F. Soriguera.
43. Seminar “*Urban traffic regulation using the Macro Fundamental Diagram*” and “*Existence of urban-scale macroscopic fundamental diagrams: Some experimental findings*” by Carlos F. Daganzo (UC Berkeley), Barcelona, December 15th 2010.
44. Seminar “*HOV lane analysis. How they affect traffic flow?*” by Monica Menendez (ETH Zurich), Barcelona, December 16th 2010.
45. Course on “*Tools for the regulation and optimization of traffic signals*”. Madrid, September 28th 2010. Organized by the Spanish Association of Traffic Engineers. Directed by Victor Díez Estébanez.
46. *IX Congreso de Ingeniería del Transporte*. Madrid, July 7-9th, 2010. Paper: “Gestión variable del límite de velocidad en autopistas metropolitanas: un análisis conceptual”, F. Soriguera. Paper: “Evaluación de la gestión variable del límite de velocidad en la

- autopista metropolitana C-32 en el acceso a Barcelona”, J.M. Torne, D. Rosas, F. Soriguera.
47. *3rd Catalonia ITS Conference*. Barcelona, March 3-4 2010. “Advanced traffic management in metropolitan freeways: some policies”. F. Soriguera.
 48. *Catalan Civil Engineers Association Session*. Barcelona, 1 February 2010. “Environmental traffic management: a conceptual approach”, Jornadas del CECCP. Gestion Ambiental del Trafico: Realidad y Futuro. F. Soriguera.
 49. *TRB 89th Annual Meeting*. Washington, D. C. January 10-14th, 2010. Paper: “Traffic stream space-mean speed estimation from common double loop detector aggregated data” F. Soriguera and F. Robusté. Paper: “Insights on freeway travel time estimation methods based on punctual speed measurements” F. Soriguera and F. Robusté.
 50. Course: “*Macroscopic Modeling of traffic in congested cities: empirical evidence, analytical derivations and control applications*”, by Dr. Nikolas Geroliminis (EPF Lausanne), Barcelona, October 22nd 2009.
 51. *Cenit R+D+I Seminar*. Barcelona, October 9th, 2009. “A conceptual approach to dynamic speed limit management”, F. Soriguera.
 52. *IV Barcelona Tech Summer Sessions*. Barcelona, June 22– 26, 2009. “A conceptual approach to dynamic speed limit management”, F. Soriguera.
 53. Course: “*Innovations in urban traffic: modeling and management*” by Carlos F. Daganzo (UC Berkeley), Barcelona, May 14th 2009.
 54. *2nd Catalonia ITS Conference*. Barcelona, February 19th – 20th 2009. “Could drivers drive at a lower speed and still arrive earlier?”, F. Soriguera.
 55. *International Workshop on Traffic Data Collection & ITS Standardization*. Barcelona, September 8-9th 2008. Paper: “Fusing road travel time data”, F. Soriguera, D. Abeijón and F. Robuste.
 56. *VIII Congreso de Ingeniería del Transporte*. A Coruña, July 2-4th, 2008. Paper: “Metodología de elaboración de patrones de intensidad de tráfico”, F. Soriguera, E. Molins and E. Alberich. Paper: “Metodología de elaboración de planes de movilidad en polígonos industriales o centros de trabajo compactos”, D. Cuscurita, F. Soriguera, M. Estrada and L. Thorson. Paper: “Construcción de patrones de tiempo de viaje por carretera”, D. Rosas, F. Soriguera and E. Molins.
 57. *TRB 87th Annual Meeting*. Washington, D. C. January 13-17th, 2008. Paper: “Highway travel time data fusion” F. Soriguera, D. Abeijón, L. Thorson and F. Robusté.
 58. *11th WCTR - World Conference on Transport Research*. Berkeley, California. June 24-28th, 2007. Poster: “Highway travel time estimation from multiple data sources” F. Soriguera, D. Abeijón, D. Rosas, L. Thorson and F. Robusté.
 59. *TRB 86th Annual Meeting*. Washington, D. C. January 21-25th, 2007. Paper: “Travel time measurement using toll infrastructure” F. Soriguera, L. Thorson and F. Robusté. Paper: “Optimization of the internal transport cycle in a marine container terminal managed by straddle carriers” F. Soriguera, D. Espinet and F. Robusté.
 60. *11th Meeting of the EURO Working Group on Transportation & Extra EURO Conference*. Bari September 27-29th, 2006. Paper: “Travel time estimation using toll collection data” F. Soriguera, L. Thorson and F. Robusté.

61. *VII Congreso de Ingeniería del Transporte*. Ciudad Real, June 14-16th, 2006. Paper: "Bases de un sistema de medición y previsión del tiempo de viaje por carretera en Cataluña" F. Soriguera, L. Thorson, J. A. Grau and F. Robusté. Paper: "Análisis de la monitorización existente en las carreteras catalanas" F. Soriguera, R. Colombo and L. Thorson.
62. *Time Series Analysis Course*. Department of Statistics and Operational Research. UPC – Technical University of Catalonia, 2005-2006.
63. *3rd International Conference Maritime Transport 2006*. Barcelona, May 16-19th, 2006. Paper: "Optimization of the internal transport cycle in a marine container terminal managed by straddle carriers" D. Espinet, F. Soriguera and F. Robusté.
64. *TRB 85th Annual Meeting*. Washington, D. C. January 22-26th, 2006. Paper: "Handling equipment optimization in container terminal of Port of Barcelona. Spain" F. Soriguera, F. Robusté, R. Juanola and A. López-Pita.
65. *European Transport Conference 2005*. Strasbourg, France, October 3-5th, 2005. Participation as chairman substitute.
66. *VI Congreso de Ingeniería del Transporte*. Zaragoza, June 23-25th, 2004. Paper: "Optimización de operaciones en una terminal marítima de contenedores" F. Soriguera, F. Robusté and R. Juanola.

TEACHING (Currently taught at BarcelonaTech-UPC)

- *Transportation* [Degree in Civil Engineering, 6th Semester, Core subject]
- *Urban mobility* [Master in Civil Engineering; 3rd Semester; Optional]
- *Operations in transportation* [Master's degree in Supply Chain, Transport and Mobility, 1st Semester, Core subject]
- *Traffic* [Master's degree in Supply Chain, Transport and Mobility, 2nd Semester, Core subject for major in Transport and Mobility]

Previously (since 2007) I have also collaborated in the teaching of 15 different courses at Bachelor, Master and PhD levels, all of them related to transportation and traffic operations, urban mobility, transportation sustainability and logistics, within the Barcelona Civil Engineering School, the School of Mechanical Engineering and the School of Nautical Engineering.

Ph.D. THESIS DIRECTED

1. Ongoing. *Design, policies and effects on mobility of vehicle-sharing systems*. Author: Enrique Jiménez Meroño. FPI Fellow. Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union)
2. 29 October 2019. *Modeling present and future freeway management strategies: Variable speed limits, lane-changing and platooning of connected autonomous vehicles*. Author: Marcel Sala Sanmartí. Ph.D. Program in Civil Engineering. Mark: Excellent with Cum Laude distinction. The thesis obtained the national (Spain) and international XV ABERTIS Prize in the category of Management of Transportation Infrastructures and Services.

3. 19 December 2018. *Highway travel time information systems: from traditional to cooperative driving environments*. Author: Margarita Martínez Díaz. Ph.D. Program in Civil Engineering. International Mention. Universidade da Coruña. Codirected with Prof. Ignacio Pérez. Mark: Excellent with Cum Laude distinction. The thesis obtained the national (Spain) and international XVI ABERTIS Prize in Management of Transportation Infrastructures.
4. 20 December 2013. *Active traffic management strategies in metropolitan freeways: Modeling and assessing dynamic speed limit strategies*. Author: Josep Maria Torné Santos. Ph.D. Program in Planning and Management of Transportation Infrastructures. Codirected with Prof. Francesc Robusté. Mark: Excellent with Cum Laude distinction. The thesis obtained an honorable mention in the 11th ABERTIS Prize in Management of Transportation Infrastructures.

MASTER THESIS DIRECTED

1. July 2020. *Macroscopic model for the optimal design of a car-sharing system*. Author: Marina Tirado Martín. Mark: 9.5.
2. July 2020. *Analytical definition of city urbanization models promoting sustainable mobility*. Author: Julia Rio Arce. Mark: 10. MH. Codirected with Prof. Javier Ortigosa (UPC).
3. February 2020. *Optimization of free-floating bike-sharing systems operations*. Author: Gerard Espinet. Mark: 9.0.
4. October 2019. *Planning and assessment of urban collective transportation system using simulation: Seville's metro case study*. Author: Jaime Sierra. Mark: 9.5.
5. July 2019. *Un aperçu de l'apport des véhicules connectés et automatisés: impacts sur la circulation et la sécurité routière*. Author: Mathis Boukhellouf. Mise en Situation Professionnelle. ENTPE Lyon - UPC BarcelonaTech.
6. July 2019. *Demand prediction of public bike sharing services using machine learning algorithms*. Author: Jaume Torres Bonet. Mark: 9.5.
7. July 2019. *Platooning of autonomous vehicles Operating on an automated highway system (AHS)*. Author: Peejeh Sahagun. Mark: 9.0.
8. February 2019. *Microscopic modelling and simulation of autonomous vehicle platooning on highways*. Author: Laura Oriol Herrera. Mark: 9.5.
9. December 2018. *Modeling of traffic instabilities and phantom jam: The LWR model with stochastic speed-density relation*. Author: Alícia Alcoba Corominas. Mark: 10. Codirected with Prof. Wenlong Jin (UC Irvine).
10. October 2018. *Evaluating the impacts of start-up and clearance behaviors in a signalized network: A network fundamental diagram approach*. Author: Adrià Morales Fresquet. Mark: 9.5. Codirected with Prof. Wenlong Jin (UC Irvine).
11. May 2018. *Bike-sharing system design: Guidelines on conceiving and implementing a BSS as a public transport with a monocentric heterogeneous demand*. Author: Guilherme Chalhoub Dourado. Mark: 10. The work obtained the spanish XVI ABERTIS Prize in Management of Transportation Infrastructures (master's thesis category).

12. September 2017. *Optimal location of variable speed limit application areas in freeways*. Author: Irene Martínez Josemaria. Mark: 10. Codirected with Prof. Wenlong Jin (UC Irvine). Honorable mention in the 15th ABERTIS Prize in Management of Transportation Infrastructures. 2nd place in the TRA VISIONS 2018 young researcher competition Road cluster, Awarded by the Transport Research Arena of the European Commission. (<https://www.travisions.eu/TRAVisions/>)
13. November 2016. *Regulació semafòrica de la ronda de Sant Ramon (Sant Boi de Llobregat) Desviament de trànsit durant les obres a la carretera BV 2002 (in Catalan)*. Mark: 7.5. Codirected with Mr. Ole Thorson Jorgensen (INTRA).
14. July 2016. *Analytical approach to landside system dynamics at airport passenger terminals: departmentalization and holistic view*. Author: Martí Montesinos Ferrer. Mark: 8.5. Codirected with Prof. César Trapote Barreira (UPC). Honorable mention in the 14th ABERTIS Prize in Management of Transportation Infrastructures.
15. July 2016. *Trajectory estimation using an iterative method*. Author: Adrià Torres Ventura. Mark: 8.5. Codirected with Prof. Wenlong Jin (UC Irvine).
16. July 2016. *Simulation of a public e-bike sharing system*. Author: Víctor Casado Pérez. Mark: 9.0. Winner of the 14th ABERTIS Prize in Management of Transportation Infrastructures (master thesis category).
17. July 2016. *Rebalancing strategies for bike-sharing Systems. The case of "bicing" Barcelona*. Author: Enrique Jiménez Meroño. Mark: 9.5
18. February 2016. *Modelling shared vehicle systems with application to e-vehicles*. Author: Anna Llopis. Mark: 9.5.
19. October 2015. *Driver feedback mobile app*. Author: Enric Miralles Miquel. Mark: 8.5. Honorable mention in the 13th ABERTIS Prize in Management of Transportation Infrastructures.
20. July 2015. *Effects of dynamic speed limits on a Dutch highway*. Author: Joel Plana. Mark: 10.0. Codirected with Prof. Andreas Hegyi (TU Delft).
21. June 2015. *Vehicle trajectory estimation based on Newell's simplified kinematic wave model with heterogeneous Data*. Author: Adrián Rey. Mark: 10.0. Codirected with Prof. Wenlong Jin (UC Irvine).
22. July 2014. *Modeling of shared bike systems with application to e-bikes*. Author: Anna Llopis. Mark: 10.0. Codirected with Prof. Nikolas Geroliminis (EPF Lausanne).
23. July 2014. *Validation of the CL-CTM freeway merge model*. Author: Carles Cañero. Mark: 8.5. Codirected with Dr. Josep M. Torné.
24. July 2014. *Analysis of actuated traffic light control on isolated intersections. (Anàlisi del control semafòric actuat en interseccions aïllades)*. Author: Carles Illera. Mark: 8.5. Codirected with Prof. Alvaro Seco (Universidade de Coimbra)
25. July 2014. *Effects of freeway traffic homogeneity on lane changing activity: The role of dynamic speed limits*. Author: Irene Martínez. Mark: 10.0. Codirected with Prof. Mónica Menéndez (ETH Zurich). Winner of the 12th ABERTIS Award in Management of Transportation Infrastructures (master thesis category).
26. July 2014. *Traffic flow analysis on a metropolitan freeway*. Author: Xavier Casadevall. Mark: 9.0. Codirected with Dr. Josep M. Torné.

27. July 2014. *Freeway traffic experiment – Empirical traffic data under dynamic speed limit strategies*. Author: Marcel Sala. Mark: 6.0.
28. November 2013. *Effects of variable speed limit strategies on a metropolitan highway*. Author: Jordi Janot. Mark: 9.0. Codirected with Prof. Mónica Menéndez (ETHZ).
29. July 2013. *Traffic flow analysis on C-32 freeway with active DSL systems*. (Anàlisi del flux del trànsit a la autopista C-32 amb sistemes actius de velocitat variable). Author: David Ramoneda. Mark: 9.0
30. July 2011. *The value of a highway travel time information system*. Author: Víctor Jodar. Mark: 9.0
31. March 2011. *Influence of non-recurrent events in traffic flows on a coastal highway*. Author Andreu Tarrida. Mark: 8.0
32. July 2009. *Traffic stream macro and micro analysis in AP-7 turnpike*. Author: Jordi Soriguera. Mark: 9.0. Winner “ex aequo” of the 7th ABERTIS Award in Management of Transportation Infrastructures (master thesis category).
33. July 2008: *Analysis of travel time patterns in the AP-7 highway*. Author: Victor Jodar. Mark: 9.0
34. July 2008. *Analysis of traffic flow patterns in the AP-7 highway*. Author: Jorge Viver. Mark: 8.0
35. November 2007. *Traffic data treatment to obtain environmental assessment of fixed 80 km/h speed limitation in a freeway corridor near Barcelona*. Author: Ricardo Iñiguez. Mark: 8.0
36. July 2007. *Construction of traffic flow patterns in the AP-7 toll highway*. Author: Eduard Alberich. Mark: 9.0
37. July 2007. *Road travel time data fusion*. Author. David Abeijon. Mark: 9.0
38. May 2006. *Optimization of the internal transportation cycle in a maritime container terminal*. Author: Domènec Espinet. Mark: 9.0

PARTICIPATION IN PHD THESIS COMMITTEES

1. 10th September 2019. *Design of reliable schedules and control strategies for improving bus system performance*. Author: Josep Mención Camps. Director: Prof. Dr. Miquel Estrada Romeu and Prof. Dr. Miquel Salicrú Pagès. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech.
2. 20th April 2018. *Using Connected Vehicles in Variable Speed Limit Systems: System Design and Effects*. Author: Ellen F. Grumert. Directors: Prof. Dr. Jan Lundgren and Prof. Dr. Andreas Tapani. Mark: Pass (only Pass or Fail grading options). Linköping University, Department of Science and Technology (ITN), Norrköping, Sweden. Role of fakultetsopponent (faculty opponent) in the thesis defense.
3. 25th July 2017. *Desarrollo de modelos de velocidad de operación de vehículos ligeros en carreteras convencionales, considerando sus características geométricas y operacionales*. Author: María Elena García Jiménez. Director: Prof. Dr. Alfredo García García. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de València.

4. 19th December 2016. *Comparison of bus network structures versus urban dispersion: A monocentric analytical approach. Evidences from Barcelona's bus network.* Author: Hugo Badia Rodríguez. Director: Prof. Dr. Miquel Estrada Romeu and Prof. Dr. Francesc Robusté Antón. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech.
5. 19th May 2016. *Understanding how to reduce road transport emissions. Modelling the impact of eco-driving.* Author: Álvaro García Castro. Director: Prof. Dr. Andrés Monzón De Cáceres. Mark: Excellent with International distinction. Universidad Politécnica de Madrid.
6. 16th December 2015. *Methodology for optimal design of efficient air transport network in a competitive environment.* Author: César Trapote Barreira. Director: Prof. Dr. Francesc Robusté Antón. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech.
7. 28th July 2014. *Modelización de perfiles del ruido producido por vehículos en dispositivos moderadores de tráfico.* Author: Carlos Augusto Kaffure Ruiz. Director: Prof. Dr. Alfredo García García. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de València.
8. 19th December 2013. *Modeling of taxi cab fleets in urban environment.* Author: Josep Maria Salanova Grau. Director: Prof. Dr. Miquel Àngel Estrada Romeu. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech.

PARTICIPATION IN FUNDED RESEARCH PROJECTS

1. 2020-2023: Project entitled "*Platooning of Connected Autonomous Vehicles on Freeways: Microscopic Modeling & Management Strategies (PLATOON).*" (*Trenes de Vehículos Autónomos Conectados en Autopista: Modelización Microscópica y Estrategias de Gestión*) (PID2019-105331RB-I00). Funding: 179.080 €, Spanish Ministry of Science and Innovation (Ministerio de Ciencia e Innovación). Lead researcher.
2. 2019-2020: Project entitled "*Management model of an electric car-sharing system. Phase 0.2: Definition of an analytic macroscopic model for mixed (free-floating & station-based) car-sharing systems*". Funding: 18.232 €, CARNET - Cooperative Automotive Research Network – CIT - UPC. Lead researcher.
3. 2017-2018: Project entitled "*Freeway cooperative driving: microsimulation of autonomous vehicles platooning in mixed traffic.*" (*TREN - Conducción cooperativa en autopista: microsimulación de trenes de vehículos autónomos en tráfico mixto*) (SPIP2017-02218). Funding: 49.773,90 €, Dirección General de Tráfico (spanish traffic administration). Lead researcher. Granted but renounced due to administrative limitations.
4. 2016-2019: Project entitled "*Cooperative freeway driving strategies in a mixed environment – driverless and traditional vehicles.*" (*COOP – Conducción cooperativa en autopista: estrategias de gestión en un sistema mixto - vehículos autónomos y tradicionales*) (TRA2016-79019-R). Funding: 141.570 €, Spanish Ministry of Economy and Competitiveness. Lead researcher.
5. 2016: Project entitled "*Management Model of Electric Vehicle Sharing*". Funding: 14.000 €, SEAT Chair - UPC. Lead researcher.

6. 2014-2016: Project entitled “*Dynamic management of lane changing and road space usage in congested freeways.*” (CARRIL – *Gestión dinámica del cambio de carril y uso de la calzada en autopistas congestionadas*) (CARRIL TRA2013-45250-R). Funding: 78.650 €, Spanish Ministry of Economy and Competiveness. Lead researcher.
7. 2013: Project entitled “*Empirical measurement of the impacts of dynamic speed limits on B-23 freeway accessing Barcelona from the south*” (*Mesura empírica dels efectes d’una limitació variable de la velocitat en l’autopista B-23 en el seu tram d’accés sud a Barcelona*). CM 12/2013. Funding: 19.118 €, Catalan Road Administration (*Servei Català del Trànsit*).
8. 2010-2012: Project entitled “*Dynamic traffic models for an integrated corridor management*” (MITRA TRA2009-14270). Funding: 173.998 €, Spanish Ministry of Education and Science.
9. 2011: Project entitled “*Guidelines for the definition of the research, development and innovation plan 2011-2013 for the Catalan Traffic Administration* (*Servei Català del Trànsit*)”. Funding: 17.900 €, Catalan Road Administration (*Servei Català del Trànsit*).
10. 2009-2011: Project entitled “*Travel time estimation methods from different traffic data*” (MOTIV TRA2008-06470). Funding: 145.200 €, Spanish Ministry of Education and Science.
11. 2010: Project entitled “*Operational assessment of the RACC roadside assistance in Barcelona city*”. Funding: 18.000 €, RACC (automobile users association).
12. 2010: Project entitled “*Analysis and assessment of the complementary traffic control actuations on the C-31 and C-32 corridor on the south access to Barcelona*”. Funding: 120.385 €, Catalan Road Administration (*Servei Català del Trànsit*).
13. 2009: Project entitled “*Definition of an advanced speed management system in the freeways accessing Barcelona*”. Funding: 58.990 €, Catalan Road Administration (*Servei Català del Trànsit*).
14. 2008: Assessment to the Catalan Road Administration (*Servei Català del Trànsit*) in the project entitled “*Application of variable speed limits on the freeways accessing Barcelona*”. Funding: 12.000 €, Catalan Road Administration (*Servei Català del Trànsit*).
15. 2007-2008: 2nd phase of the project entitled “*Travel time estimation and prediction in Catalan network – Pilot test in the ACESA network*”. Funding: 435.000 €, ABERTIS (Spanish leading private transportation and communications infrastructures management corporation).
16. 2007: Project entitled “*Traffic data treatment and environmental assessment of speed limitation policies in the AP-7/AP-2/B-23 corridor*” Funding: 10.000 €, SCT – Catalan Department of Traffic.
17. 2005-2006: Project entitled “*Travel time estimation and prediction in Catalan network*”. Funding: 120.000 €, ABERTIS (Spanish leading private transportation and communications infrastructures management corporation) and RACC (automobile users association).
18. 2005-2006: Project entitled “*Methodology for reconstructing O/D mobility data*”. With IdesCat (Catalan Statistics Institution). Funding: 18.108 €, Department of Public Works and Territorial Planning, Catalan Government.

19. 2005-2006: Project entitled “*Guide to promote sustainable mobility in high density industrial areas*” Funding: 20.880 €, Catalan Government and Barcelona Industrial Park Association.

JOURNAL & INSTITUTIONAL COLLABORATION

- Since 2016. Coordinator of the Master Program on Supply Chain, Transport and Mobility. UPC – BarcelonaTech.
- Coeditor in the *Transportation Research Procedia* issue corresponding to the EURO Working Group on Transportation Meeting (EWGT) 2019. Barcelona, 18 to 20th September 2019. Publication: Codina, E., F. Soriguera, L. Montero, M. Estrada and M. P. Linares. (2020). Editorial. *Transportation Research Procedia* 47, pp. 1-2. ISSN 2352-1465. DOI 10.1016/j.trpro.2020.03.065

Memberships:

- Member of the Scientific Committee. Member of the Organizing Committee. 22nd EURO Working Group on Transportation Meeting (EWGT) 2019. Barcelona, 18 to 20th September 2019.
- Member of the "Round table in mobility and transport infrastructures". Urbanistic Master Plan for the Barcelona Metropolitan Region. (*Taula de mobilitat i infraestructures de transport. Pla director urbanístic. AMB - Àrea Metropolitana de Barcelona*).
- Member of the jury in the “ABERTIS Research Award in Management of Transportation Infrastructures”. Since 2015.
- Scientific Committee in the “*XIII Congreso de Ingeniería del Transporte*”, Gijón, June 6-8, 2018.
- Scientific Committee in the “*XII Congreso de Ingeniería del Transporte*”, Valencia, June 7-9, 2016.
- Scientific Committee in the “*XI Congreso de Ingeniería del Transporte*”, Santander 9-11 June 2014.
- Scientific Committee in the “*X Congreso de Ingeniería del Transporte*”, Granada 20-22 June 2012.
- Department of Civil and Environmental Engineering (formerly Transport and Regional Planning) Advisory Board. Barcelona Civil Engineering School. Technical University of Barcelona – BarcelonaTech. Since 2011.
- Spanish Transportation Infrastructures Forum (*Foro de Infraestructuras del Transporte – FIT*). Academic and professional society whose members are Ph.D. holders whose professional or research interests are focused on transportation. Since 2010.
- Civil Engineering School Advisory Board. Technical University of Barcelona – BarcelonaTech. Since 2009.
- Working Group on Surface Transport Networks: Improving Reliability and Levels of Service of the Joint OECD / ITF Transport Research Committee. 2008.
- Chairman of the Master Thesis Evaluation Committee. Barcelona Civil Engineering School. Technical University of Barcelona. 2008-2009.

- Spanish Civil Engineers Association. Member nº 21.753. Since 2004.

Reviewer for the following institutions:

- *Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT) de la Comisión Nacional de Investigación Científica y Tecnológica (CONICYT) de Chile.* 2014.
- UCCONNECT - University of California Center on Economic Competitiveness in Transportation. 2014.
- *ETH Zurich Research Commission.* 2012.
- Swiss Science National Foundation (SNF). 2011.
- *Transportation Research Board, TRB, National Research Council, Washington, D.C.* Since 2008.
- Spanish National Agency for Evaluations and Prospective (*ANEP-Agencia Nacional de Evaluación y Prospectiva*). Since 2008.

Reviewer for the following journals:

- *Computer-Aided Civil and Infrastructure Engineering.* Since 2014.
- *Transportmetrica.* Since 2014.
- *Journal of Advanced Transportation.* Since 2014.
- *ASCE Journal of Transportation Engineering.* Since 2014.
- *IEEE Transactions on Intelligent Transportation Systems.* Since 2009.
- *Transportation Research – Part C.* Since 2009.
- *Journal of Intelligent Transportation Systems.* 2011 - 2012.
- *Transportation Science.* 2009.

MEDIA COLLABORATION

1. August 6th, 2017. *TV3 News Program.* Note on traffic congestion in the freeways accessing Barcelona. <http://bit.ly/2vG5QPv>
2. March 18th, 2015. *Mediterranean EuroRegion* (<http://euroregioeuram.eu/>). “L’objectiu de la gestió del trànsit ha de ser aconseguir un sistema eficient” (The objective of traffic management must be the achievement of an efficient system). Think piece.
3. April 28th, 2014. *El Confidencial* newspaper. “Dos cerebros españoles que quieren cambiar el transporte del futuro”. Note on my paper regarding the value of travel time information as a result of having been shortlisted in the young researcher of the year award (ITF-OECD).
4. Feb 2014. *La Xarxa, comunicació local.* TV and Radio network. Interview: On the efficiency of HOV lanes. The C-58 case. Program: *Notícies en Xarxa.*
5. May 2011. *La Vanguardia, El Periódico, Marítimas* and *El Vigia* newspapers. News: VIII Abertis Research Prize in Management of Transportation Infrastructures to Francesc Soriguera’s PhD Thesis.

6. February 28th, 2011. *Cadena SER radio network*. Program “*Hora L*”. Note on 110 km/h speed limit reduction on freeways.
7. February 24th, 2011. *Catalunya Informació News radio network*. Round table about dynamic speed limit management in the freeways accessing Barcelona. Program: *Esfera Pública*.
8. February 22nd, 2011. *La Vanguardia newspaper*, among others. “*El tripartito ocultó un informe que cuestionaba los 80 km/h*”. (Results of my report on DSL are filtered to media).
9. February 6th, 2011. *ARA newspaper*. “*El día que deixarem de conduir*” (The day when driving will be over). Think piece.
10. June 2010. *infoTrànsit*, quarterly publication of the “*Servei Català del Trànsit*”. Interview: How congestion can be alleviated in Catalonia?
11. March 2010. *CAMINS.CAT*, monthly publication of the BarcelonaTech-UPC. Round table on “*How speed limits on freeways favor traffic sustainability*”.
12. February 22nd, 2010. *Cadena SER radio network*. Note on social optimum freeway speed.
13. January 8th, 2010. *El Punt newspaper*. Interview on the effects of dynamic speed limit management in the freeways accessing Barcelona.
14. 2 December 2009. *ACN – Catalan News Agency*. Note on dynamic speed limit management in the freeways accessing Barcelona.
15. May 28th, 2009, *Catalunya Radio News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona.
16. March 13th, 2009. *COM radio News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona.
17. February 1st, 2009. *Informacions UPC magazine*; “*What is the contribution of dynamic speed limit management in the freeways accessing Barcelona?*”, think piece.
18. January 15th, 2009. *TV3 Program: “Els Matins” with Josep Cuní*. Round table about dynamic speed limit management in the freeways accessing Barcelona.
19. January 14th, 2009. *Tele 5, Program “La Mirada Crítica”*. Note on dynamic speed limit management in the freeways accessing Barcelona.
20. January 13th, 2009. *TV3 News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona.
21. January 13th, 2009. *Cadena SER radio News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona.
22. December 16th, 2008. *El Periódico newspaper*, “*Slowly, Faster*”, think piece.
23. January 29th, 2008. *El País newspaper*, “*A motorbike lane*”, think piece.
24. July 6th, 2007. *Bcn Tv. Program: “Hola Barcelona”*. Discussion about Bicing in Barcelona.