



FRANCESC SORIGUERA

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Personal data

Nationality: Spanish

Country of residence: Spain

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

Researcher impact indexes

- *h - Index (WOS – Thompson Reuters)*: 14

- *h - Index (Scopus)*: 16

- *h - Index (Google Scholar)*: 21

Highlights

Research	<p>35 papers in indexed journals (18 as 1st author; 16 in 1st quartile Impact Factor journals)</p> <p>2 Monographs (1 published in Springer Tracts on Transportation and Traffic)</p> <p>2 book chapters (one edited by OECD publishing)</p> <p>57 publications in conference proceedings</p> <p>4 PhD thesis directed (7 ongoing)</p> <p>Lead researcher in 4 competitive research projects (2014-16; 2016-19; 2020-25; 2025-28), and member of the research team in 5 others.</p> <p>14 research transfer contracts with private companies and public institutions.</p> <p>2.6 million € funding awarded for research projects and transfer contracts. 1.4 million € if normalized by number of researchers involved (if lead researcher counts twice).</p> <p>Over 80 participations in research conferences, seminars, courses and invited talks, both at national and international levels.</p> <p>4 research awards and 1 finalist position.</p> <p>12 research awards and 7 honorable mentions / finalist positions for research works by students directed by F. Soriguera.</p> <p>3 six-year recognized research periods (<i>sexenios de investigación</i>) (2005-10; 2011-16; 2017-22)</p> <p>3 international research stays (University of California at Berkeley; Norwegian Center for Transport Research).</p> <p>Member of the BIT – Barcelona Innovation in Transport research group (SGR)</p>
Teaching	<p>20 years of teaching experience at the UPC-BarcelonaTech.</p> <p>Participation in the teaching of 23 subjects (11 as professor in charge) at bachelor and master's level.</p> <p>49 master / bachelor thesis supervised.</p> <p>4.31 out of 5 in the key question of the student surveys on professor assessment (weighted average in the last 5 academic courses with available data 2020/21 - 2024/25).</p> <p>3 five-year recognized teaching periods (<i>quinquenios docentes</i>) (2007-11; 2012-16; 2017-21)</p> <p>1 Massive Online Open Course. "MOOC - Engineering fundamentals for urban mobility".</p> <p>1 textbook on "<i>Transportation operations and traffic</i>". To be published.</p> <p>10 participations in teaching innovation activities.</p> <p>15 participations in teaching training courses and workshops</p>

Academic
Management

Vice-dean of Master Studies and Coordinator of the Master Program in Civil Engineering (Jefe de Estudios - Máster en Ingeniería de Caminos, Canales y Puertos). Barcelona Civil Engineering School. UPC - BarcelonaTech. (2020 – Present)

Coordinator of the Master Program in Urban Mobility. Programme SUMT - Sustainable Urban Mobility Transitions. EIT Urban Mobility Master School. European Institute of Innovation and Technology. Barcelona Civil Engineering School. UPC - BarcelonaTech. (2020 – 2025)

Coordinator of the Master Program in Supply Chain, Transport and Mobility. Barcelona School of Industrial Engineering. Barcelona Civil Engineering School. UPC – BarcelonaTech. (2016 – 2021)

Short CV

Francesc Soriguera is **full professor** (*catedrático contratado*) of transportation in the Civil and Environmental Engineering Department at UPC-BarcelonaTech. Currently, he is the **Vice Dean of Master Studies** in the Barcelona Civil Engineering School, and the academic coordinator of the Master's degree in Civil Engineering. Prof. Soriguera is a **PhD in Civil Engineering** (UPC-BarcelonaTech, 2010), and holds postgraduate diplomas in Management of Port Operations, Management of Public Works, and Private Management of infrastructures (2004-2006). He has received two visiting scholar appointments at the **University of California, Berkeley** (2007, hosted by prof. C.F. Daganzo; and 2012 hosted by Prof. M. Cassidy) and another one at TØI, the Institute of Transportation Economics – **Norwegian Center for Transport Research** (2015).

Dr. Soriguera's research works deal with the analysis, **management and optimization of transportation systems**. Current research interests include the improvement of freeway traffic with the presence of autonomous and connected vehicles and vehicle-sharing schemes in urban mobility. His research trajectory is broad, having contributed to the advance in the scientific state-of-the-art in different fields, such as: ([link](#) to complete descriptions)

- Modeling of mixed freeway traffic, including traditional and autonomous vehicles.
- Modeling public vehicle-sharing systems.
- Active traffic management strategies
- Traffic safety
- Freeway travel time estimation from multiple data source
- Optimization of operations at port container terminals
- Sustainable mobility planning

The objective when dealing with these research topics has always been to develop fundamental methodological knowledge, which could be considered parsimonious and robust, in order to facilitate its application with limited data and resources, and still yield results which help in the decision-making process of the different stakeholders.

Prof. Soriguera's research works have been published in the most prestigious journals in the field, like *Transportation Research Part A, Part B and Part C, Transportmetrica, IEEE Transactions on ITS, Sustainable Cities and Society, or Computer-Aided Civil and Infrastructure Engineering*. One of his papers appeared in the **ScienceDirect TOP25 list of most downloaded papers** in its category (rank #11). He has also published a monograph in *Springer Tracts on Transportation and Traffic*, has collaborated in two book chapters (one for OECD publishing), and has participated in more than 80 conferences, seminars and courses at national and international levels.

In addition, prof. Soriguera has received some awards for his works, including, the **Abertis Research Prize in Management of Transportation Infrastructures** (2011; awarded to the best yearly research contribution in the field), the **UPC-BarcelonaTech outstanding Ph.D. award** (2012; which recognizes the theses with the highest scientific productivity), the Young Researcher Award (CIT conference, 2012), and he was shortlisted in the prestigious **International Transport Forum Young Researcher Award** (OECD, 2014).

Prof. Soriguera has received the funding from national (Spain) and international (European) funding research agencies, through successful applications to competitive research calls, as well as from research contracts with private companies and institutions. Specifically, he has been the lead researcher in 4 projects belonging to the *Spanish Ministry of Science and Innovation Research Plan* (2014-16; 2016-19; 2020-25; 2025-28).

Prof. Soriguera is also committed to the teaching and training of young researchers. Currently he is **responsible for the teaching of 3 courses** at master level ([link](#) to course details), and has recurrently obtained **top grades in the students' surveys** (>4 out to 5). He has **directed 4 PhD thesis** (obtaining the Cum Laude distinction and several prizes and awards at the national and international level). Currently, he is directing 7 additional PhD candidates ([link](#) to PhD students) in

a multidisciplinary and international research team within the **BIT – Barcelona Innovative Transportation** research group. Most of these PhD candidates have been accepted to the EIT Urban Mobility [Doctoral Training Network](#), increasing the internationalization focus of the research team. Finally, Dr. Soriguera has supervised near 50 master and bachelor theses, 90% graded above 9/10 and several of them having obtained research awards.

5 Selected publications

(from last 10 years)

Jiménez, E. and **F. Soriguera**. (2024). A continuous approximation model for the optimal design of mixed free-floating and station-based car-sharing systems. *Sustainable Cities and Society*, 113, 105673. ISSN 2210-6707. DOI: [10.1016/j.scs.2024.105673](https://doi.org/10.1016/j.scs.2024.105673). IF = 10.5; Q1.

Sala, M. and **F. Soriguera**. (2021). Capacity of a freeway lane with platoons of autonomous vehicles mixed with regular traffic. *Transportation Research Part B*, 147, 116 – 131. ISSN 0191-2615. DOI [10.1016/j.trb.2021.03.010](https://doi.org/10.1016/j.trb.2021.03.010). IF = 7.632; Q1.

Soriguera, F. and M. Martínez-Díaz. (2021). Freeway travel time information from input-output vehicle counts: A drift correction method based on AVI data. *IEEE Transactions on Intelligent Transportation Systems* 22, (9), 5749 - 5761. Print ISSN: 1524-9050; Online ISSN: 1558-0016. DOI [10.1109/TITS.2020.2992300](https://doi.org/10.1109/TITS.2020.2992300). IF = 9.551, Q1.

Soriguera, F. and E. Jiménez. (2020). A continuous approximation model for the optimal design of public bike-sharing systems. *Sustainable Cities and Society*, 52, 101826. ISSN 2210-6707. DOI [10.1016/j.scs.2019.101826](https://doi.org/10.1016/j.scs.2019.101826). IF = 7.587, Q1.

Soriguera, F. I. Martínez, M. Sala and M. Menéndez. (2017). Effects of low speed limits on freeway traffic flow. *Transportation Research Part C*, 77, 257-274. ISSN 0968-090X. DOI [10.1016/j.trc.2017.01.024](https://doi.org/10.1016/j.trc.2017.01.024). IF = 3.968, Q1.

Language

Catalan. Mother tongue.

Spanish. Mother tongue.

English. Fluent. C1 Advanced level (Cambridge University Certificate of Advanced English, 2007)

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ACADEMIC BACKGROUND

Education and titles

- 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.
- 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.
- 2005 **Postgraduate diploma in Management of Port Operations.** Technical University of Catalonia Foundation. Department of Nautical Sciences and Engineering. UPC – BarcelonaTech.
- 2004 **M.Sc. Civil Engineering.** Barcelona Civil Engineering School, UPC – BarcelonaTech. (5 year program – pre-Bologna degree)

Research stays and mobility

- 2015 **TØI, Institute of Transportation Economics** – Norwegian Center for Transport Research. Department of Safety, Security and Environment. Oslo, Norway. Visiting Researcher. Hosted by Michael Sørensen. Scholarship within the *NILS Science and Sustainability Programme for Individual Mobility* (ABEL-IM-2014B). Amount: 8.768 €.
- 2012 **University of California, Berkeley.** Civil and Environmental Engineering Department. Visiting Scholar. Hosted by the Professor Michael Cassidy.
- 2007 **University of California, Berkeley.** Civil and Environmental Engineering Department. Visiting Student Researcher. Hosted by the Professor Carlos F. Daganzo. AGAUR grants for stays for research outside Catalonia (2006 BE-2 00182). Amount: 11.800 €.
- 2002 **University of Liverpool.** Department of Civil Engineering, Liverpool, UK. 5th year of the Civil Engineering degree. EU Erasmus scholarship.

Awards and honors

- 2006-Present **12 research awards and 7 honorable mentions** / finalist positions for research works directed by F. Soriguera.
- 2014 **ITF-OECD Young Researcher of the year Award.** Finalist. 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)*.
- 2013 **UPC 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.
- 2003 **Finalist. I Abertis Award in Management of Transportation Infrastructures.** Master thesis: “Container Terminal Optimization Using Queuing Theory”. Directed by Prof. F. Robusté and Prof. R. Juanola.

Career summary

- 2016-Currently **Full Professor.** Department of Civil and Environmental Engineering. Barcelona Civil Engineering School. UPC – BarcelonaTech.

2016-2026	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	Center for Innovation in Transport (CENIT). Project manager. Research projects related to traffic operations, transport modeling, operational research and maritime transportation.
2003-2005	Tècnica i Construcció de Catalunya. Civil Engineer in the consultancy, designing different types of public works for Catalan and Spanish Administrations.
2001	CELSA steel company. Compañía Española de Laminación S.A. Civil Engineer. Trainee.

RESEARCH

Research projects (Competitive)

2025-2028	Project entitled “Efficient Design and Operation of Public Vehicle Sharing Systems with Application to Electrical and Autonomous Vehicles (vSHARE).” (<i>Diseño y operación eficiente de sistemas de vehículos públicos compartidos con aplicación a vehículos eléctricos y autónomos</i>). (PID2024-159028OB-I00). Funding: Spanish Ministry of Science, Innovation and Universities (<i>Ministerio de Ciencia, Innovación y Universidades</i>). Lead researcher.
2024-2027	Project entitled “CulturalRoad” (Grant agreement ID: 101147397). Funded under “Climate, Energy and Mobility” programme HORIZON.2.5. EUROPE 2021-2027 of the European Commission. DOI: https://doi.org/10.3030/101147397 . Lead researcher: M. Martínez-Díaz. Participation as Researcher.
2024-2026	Project entitled “Boosting Active Mobility for a Sustainable and Equitable Society (Barcelona BASES)” (Grant agreement ID: 24S05785-001). Funded under the call for grants for young and emerging research projects 2024. Barcelona City Council (<i>Subvencions relativa a la convocatòria de subvencions per a projectes de recerca jove i emergent 2024 de l’Ajuntament de Barcelona</i>). Lead researcher: M. Martínez-Díaz. Participation as Researcher.
2020-2025	Project entitled “Platooning of Connected Autonomous Vehicles on Freeways: Microscopic Modeling & Management Strategies (PLATOON).” (<i>Trenes de Vehículos Autónomos Conectados en Autopista: Modelización Microscópica y Estrategias de Gestión</i>) (PID2019-105331RB-I00). Funding: Spanish Ministry of Science and Innovation (<i>Ministerio de Ciencia e Innovación</i>). Lead researcher.
2020	Project entitled “OSCAR – An Off-Street parking floating CARsharing service”. EIT - Urban Mobility. European Institute of Innovation and Technology . Funded by the European Union. Lead researcher: M. P. Linares. Participation as Researcher.
2016-2019	Project entitled “Cooperative freeway driving strategies in a mixed environment – driverless and traditional vehicles (COOP)” (<i>Conducción cooperativa en autopista: estrategias de gestión en un sistema mixto - vehículos autónomos y tradicionales</i>) (TRA2016-79019-R). Funding: Spanish Ministry of Economy and Competiveness . Lead researcher.
2014-2016	Project entitled “Dynamic management of lane changing and road space usage in congested freeways (CARRIL)” (<i>Gestión dinámica del cambio de carril y uso de la calzada en autopistas congestionadas</i>) (CARRIL TRA2013-45250-R). Funding: Spanish Ministry of Economy and Competiveness . Lead researcher.
2010-2012	Project entitled “Dynamic traffic models for an integrated corridor management” (MITRA TRA2009-14270). Funding: Spanish Ministry of Education and Science . Lead researcher: J. Barceló. Participation as Researcher.
2009-2011:	Project entitled “Travel time estimation methods from different traffic data” (MOTIV TRA2008-06470). Funding: Spanish Ministry of Education and Science . Lead researcher: F. Robusté. Participation as Researcher.

Technology transfer projects

- 2021-2022 Project entitled "Management model of an electric car-sharing system. Phase 1.5: disaggregate modeling using an agent based simulation". Funding: **CARNET - Cooperative Automotive Research Network** – CIT - UPC. Lead researcher.
- 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: **CARNET - Cooperative Automotive Research Network** – CIT - UPC. Lead researcher.
- 2016 Project entitled "Management Model of Electric Vehicle Sharing". Funding: **SEAT Chair - UPC**. Lead researcher.
- 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: **Catalan Road Administration (Servei Català del Trànsit)**. Lead researcher.
- 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: **Catalan Road Administration (Servei Català del Trànsit)**.
- 2010 Project entitled "Operational assessment of the RACC roadside assistance in Barcelona city". Funding: **Reial Automòbil Club de Catalunya - RACC** (automobile users association).
- 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: **Catalan Road Administration (Servei Català del Trànsit)**.
- 2009 Project entitled "Definition of an advanced speed management system in the freeways accessing Barcelona". Funding: **Catalan Road Administration (Servei Català del Trànsit)**.
- 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: **Catalan Road Administration (Servei Català del Trànsit)**.
- 2007-2008 2nd phase of the project entitled "Travel time estimation and prediction in Catalan network – Pilot test in the ACESA network". Funding: **ABERTIS** (Spanish leading private transportation and communications infrastructures management corporation).
- 2007 Project entitled "Traffic data treatment and environmental assessment of speed limitation policies in the AP-7/AP-2/B-23 corridor" Funding: **Catalan Road Administration (Servei Català del Trànsit)**.
- 2005-2006 Project entitled "Travel time estimation and prediction in Catalan network". Funding: **ABERTIS** (Spanish leading private transportation and communications infrastructures management corporation) and **Reial Automòbil Club de Catalunya - RACC** (automobile users association).
- 2005-2006 Project entitled "Methodology for reconstructing O/D mobility data". With IdesCat (Catalan Statistics Institution). Funding: **Department of Public Works and Territorial Planning**, Catalan Government.
- 2005-2006 Project entitled "Guide to promote sustainable mobility in high density industrial areas" Funding: **Catalan Government** and **Barcelona Industrial Park Association**.

Publications in scientific journals

1. Carvalho Rezende, G. H., M. Martínez-Díaz, **F. Soriguera** and C. A. León (2026). Beyond time: A multidimensional framework for assessing accessibility via active transportation. *Journal of Urban Mobility*, 9, 100217. Online ISSN: 2667-0917. DOI: [10.1016/j.urbmob.2026.100217](https://doi.org/10.1016/j.urbmob.2026.100217). IF = 6.1; Q1.
2. Zhang, X., L. Gu, **F. Soriguera** and N. Zhao. (2025). Evaluating parking load in geofenced bike-sharing systems: A case study of Xiamen Island. *Transport Policy*, 171, 838-852. ISSN 0967-070X. DOI: [10.1016/j.tranpol.2025.07.008](https://doi.org/10.1016/j.tranpol.2025.07.008). IF = 6.3; Q1.
3. Torres, J., E. Jiménez-Meroño and **F. Soriguera**. (2024). Forecasting the usage of bike-sharing systems through machine learning techniques to foster sustainable urban mobility. *Sustainability*, 16, 6910. ISSN 2071-1050. DOI: [10.3390/su16166910](https://doi.org/10.3390/su16166910). IF = 3.3; Q2.

4. Jiménez, E. and **F. Soriguera**. (2024). A continuous approximation model for the optimal design of mixed free-floating and station-based car-sharing systems. *Sustainable Cities and Society*, 113, 105673. ISSN 2210-6707. DOI: [10.1016/j.scs.2024.105673](https://doi.org/10.1016/j.scs.2024.105673). IF = 10.5; Q1.
5. Jiménez-Meroño, E. and **F. Soriguera**. (2024). Optimization of bike-sharing repositioning operations: A reactive real-time approach. *EURO Journal on Transportation and Logistics*, 13, 100138. ISSN: 2192-4376. DOI: [10.1016/j.ejtl.2024.100138](https://doi.org/10.1016/j.ejtl.2024.100138). IF = 2.1; Q2.
6. Oriol, L., M. Martínez-Díaz, S.N. Moode, M. Sala, M. and **F. Soriguera**. (2024). Platooning of connected automated vehicles on freeways: a microsimulation approach. *Transportmetrica B: Transport Dynamics*, 12 (1), 2360543. Print ISSN: 2168-0566 Online ISSN: 2168-0582. DOI: [10.1080/21680566.2024.2360543](https://doi.org/10.1080/21680566.2024.2360543). IF = 3.3, Q2.
7. Martínez-Díaz, M., C. Al-Haddad, **F. Soriguera** and C. Antoniou. (2024). Impacts of platooning of connected automated vehicles on highways. *IEEE Transactions on Intelligent Transportation Systems*. 25 (7), 6366 - 6396. Print ISSN: 1524-9050; Online ISSN: 1558-0016. DOI: [10.1109/TITS.2024.3350776](https://doi.org/10.1109/TITS.2024.3350776). IF = 7.9, Q1.
8. Jiménez-Meroño, E. and **F. Soriguera**. (2024). Agent-based simulation of vehicle-sharing systems. *Journal of Simulation*, 19 (1), 84 - 107. Print ISSN: 1747-7778 Online ISSN: 1747-7786. DOI: [DOI10.1080/17477778.2024.2304549](https://doi.org/10.1080/17477778.2024.2304549). IF = 1.3; Q4.
9. Codina, E., B. Friedrich, **F. Soriguera**, and U. Crisalli. (2021). Modeling, simulation and evaluation of transport scenarios in the presence of innovative solutions - Editorial. *Transportation Letters*, 13 (3), 149 - 150. Print ISSN: 1942-7867 Online ISSN: 1942-7875. DOI [10.1080/19427867.2021.1892950](https://doi.org/10.1080/19427867.2021.1892950). IF = 2.844, Q2.
10. Sala, M. and **F. Soriguera**. (2021). Capacity of a freeway lane with platoons of autonomous vehicles mixed with regular traffic. *Transportation Research Part B*, 147, 116 – 131. ISSN 0191-2615. DOI [10.1016/j.trb.2021.03.010](https://doi.org/10.1016/j.trb.2021.03.010). IF = 7.632; Q1.
11. **Soriguera, F.** and M. Martínez-Díaz. (2021). Freeway travel time information from input-output vehicle counts: A drift correction method based on AVI data. *IEEE Transactions on Intelligent Transportation Systems* 22, (9), 5749 - 5761. Print ISSN: 1524-9050; Online ISSN: 1558-0016. DOI [10.1109/TITS.2020.2992300](https://doi.org/10.1109/TITS.2020.2992300). IF = 9.551, Q1.
12. Martínez-Díaz, M. and **F. Soriguera**. (2020). Short-term prediction of freeway travel times by fusing input-output vehicle counts and GPS tracking data. *Transportation Letters*, 13 (3), 193-200. Print ISSN: 1942-7867 Online ISSN: 1942-7875. DOI [10.1080/19427867.2020.1864134](https://doi.org/10.1080/19427867.2020.1864134). IF = 3.598, Q2.
13. Sala, M. and (*) **F. Soriguera**. (2020). Lane-changing and freeway capacity: A Bayesian inference stochastic model. *Computer-Aided Civil and Infrastructure Engineering*, 35 (7), 719-733. ISSN 1093-9687; 1467-8667 (Online). DOI [10.1111/mice.12529](https://doi.org/10.1111/mice.12529). IF = 11.775; Q1.
14. **Soriguera, F.** and E. Jiménez. (2020). A continuous approximation model for the optimal design of public bike-sharing systems. *Sustainable Cities and Society*, 52, 101826. ISSN 2210-6707. DOI [10.1016/j.scs.2019.101826](https://doi.org/10.1016/j.scs.2019.101826). IF = 7.587, Q1.
15. 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*, 34 (6), 488-505. ISSN 1093-9687; 1467-8667 (Online). DOI [10.1111/mice.12430](https://doi.org/10.1111/mice.12430). IF = 8.552, Q1.
16. Martínez-Díaz, M., **F. Soriguera** and I. Pérez. (2019). Autonomous driving: A bird's eye view. *IET Intelligent Transport Systems*, 13 (4), 563 – 579. Print ISSN 1751-956X, Online ISSN 1751-9578. DOI [10.1049/iet-its.2018.5061](https://doi.org/10.1049/iet-its.2018.5061). IF = 2.480, Q2.
17. Martínez-Díaz, M., **F. Soriguera** and I. Pérez. (2018). Technology: A necessary but not sufficient condition for future personal mobility. *Sustainability*, 10 (11), 4141. ISSN 2071-1050. DOI [10.3390/su10114141](https://doi.org/10.3390/su10114141). IF = 2.592, Q2.
18. **Soriguera, F.** I. Martínez, M. Sala and M. Menéndez. (2017). Effects of low speed limits on freeway traffic flow. *Transportation Research Part C*, 77, 257-274. ISSN 0968-090X. DOI [10.1016/j.trc.2017.01.024](https://doi.org/10.1016/j.trc.2017.01.024). IF = 3.968, Q1.
19. **Soriguera, F.** (2016). "Estimación del valor de la información del tiempo de viaje en autopista". *Carreteras*, 206, 6-19. ISSN 0212-6389. [Available online](#). SJR = 0.127, Q4.
20. 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*, 2560, 87-96. ISSN 0361-1981. ISBN 978-0-309-29507-9. DOI [10.3141/2560-10](https://doi.org/10.3141/2560-10). IF = 0.592, Q4.
21. **Soriguera, F.**, M. Sala and I. Martínez. (2015). Nuevos datos de tráfico en autopista con límites de velocidad variable. *Carreteras*, 203, 34-49. ISSN 0212-6389. [Available online](#). SJR = 0.123, Q4.

22. **Soriguera, F.** (2014). On the value of highway travel time information systems. *Transportation Research Part A*, 70, 294–310. ISSN 0965-8564. DOI [10.1016/j.tra.2014.10.005](https://doi.org/10.1016/j.tra.2014.10.005). IF = 2.789, Q1.
23. 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*, 2422, 34-41. ISSN 0361-1981. ISBN 978-0-309-29507-9. DOI [10.3141/2422-04](https://doi.org/10.3141/2422-04). IF = 0.544, Q4.
24. **Soriguera, F.** (2013). Estimación del tiempo de viaje en autopista mediante fusion de datos. *Carreteras*, 188, 26-40. ISSN 0212-6389. [Available online](#). SJR = 0.139, Q4.
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1. Bigas, J.M., M. Rubert de Ventós, M. Martí, **F. Soriguera**, C. Daher, O. Marquet, G. Conde, L. Maristany, S. Mas, P. Lecroart and J. Peralta. (2022). *Nusos i cruïlles. El futur de les infraestructures viàries*. (Junctions and crossroads. The future of road infrastructures). Col·lecció Quaderns_PDU metropolitana, 17, 270 pages (in Catalan). Oficina de Gestió Editorial Àrea Metropolitana de Barcelona. ISSN 2339-8914 (paper), 2339-8922 (digital). Book chapter: Soriguera, F. (2022). *Des de la lògica de la mobilitat*. [Available online](#).
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Direction of PhD thesis

- Ongoing **Yi Zhu**. (Expected 2028). *Planning and operation of shared autonomous electric vehicle systems: infrastructure, fleet management, and user-oriented dynamics*. China Scholarship Council (CSC) Fellow 202508330165. Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech.
- Ongoing **Xuxilu Zhang**. (Expected 2028). *Optimization of shared micromobility systems through behavioral modeling and demand rebalancing*. China Scholarship Council (CSC) Fellow 202508020013. Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech.

- Ongoing **Mohammad Khashayarfard.** (Expected 2028). *Investigating the safety impact of connected automated vehicles considering human distraction and sensor error.* FPI – UPC Fellow (2024_FPI-UPC_216138). Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech.
- Ongoing **Ardeshir Kohandel Shirazi.** (Expected 2028). *Optimizing service areas in vehicle-sharing systems to improve reliability and resource allocation.* AGAUR - FI Joan Oro Fellow (2024 FI-1 00181). Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech.
- Ongoing **Xiaoyu Zheng.** (Expected 2027). Lane-changing control framework for connected and autonomous vehicle platoons in dynamic traffic environments. China Scholarship Council (CSC) Fellow 202408390011. Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech.
- Ongoing. **Gabriel Carvalho Rezende.** (Expected 2026). *Beyond the X-minute City: rethinking urban accessibility through environmental exposure, equity, and lived mobility.* AGAUR - FI Joan Oro Fellow (2023 FI-1 00165). Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech.
- Ongoing **Seshadri Naik Moode.** (Expected 2026). *Platooning of connected autonomous vehicles: microscopic modelling and management strategies.* AGAUR - FI Joan Oro Fellow (2022 FI_B 00597). Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech.
1. **Enrique Jiménez Meroño.** (2023). *Design, management, and simulation of vehicle-sharing systems.* FPI Fellow. Member of the Doctoral Training Network (DTN) of the EIT Urban Mobility European (EIT - Institute of Innovation and Technology; European Union). Ph.D. Program in Civil Engineering. UPC- BarcelonaTech. Mark: Excellent with Cum Laude distinction. Awarded with the VI National Award for Research on Urban and Metropolitan Mobility (*VI Premio Nacional de Investigación sobre Movilidad Urbana y Metropolitana – Asociación de Transportes Públicos Urbanos y Metropolitanos* ([Atuc Movilidad Sostenible](#))); Awarded with an honorable mention in the third edition of the Rafael Izquierdo Award for Doctoral Theses, awarded by the Transportation Engineering Forum (Premio Rafael Izquierdo a Tesis Doctorales del Foro de Ingeniería del Transporte). Defense date: 15 November 2023.
 2. **Marcel Sala Sanmartí.** (2019). *Modeling present and future freeway management strategies: Variable speed limits, lane-changing and platooning of connected autonomous vehicles.* Ph.D. Program in Civil Engineering. UPC- BarcelonaTech. Mark: Excellent with Cum Laude distinction. The thesis obtained the national (Spain) and international XVII ABERTIS Prize in the category of Management of Transportation Infrastructures and Services. 2021. Outstanding Ph.D. Thesis Award. Best Ph.D. thesis of the course 2018-2019. Civil Engineering category. UPC – BarcelonaTech. (Premi extraordinari de doctorat, convocatòria 2021). Defense date: 29 October 2019.
 3. **Margarita Martínez Díaz.** (2018). *Highway travel time information systems: from traditional to cooperative driving environments.* 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. Defense date: 19 December 2018.
 4. **Josep Maria Torné Santos.** (2013). *Active traffic management strategies in metropolitan freeways: Modeling and assessing dynamic speed limit strategies.* Ph.D. Program in Planning and Management of Transportation Infrastructures. UPC – BarcelonaTech. 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. Defense date: 20 December 2013.

Member of PhD thesis committees

1. Josep Mensión Camps (2019). *Design of reliable schedules and control strategies for improving bus system performance.* Director: Prof. Dr. Miquel Estrada Romeu and Prof. Dr. Miquel Salicrú

- Pagès. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech. Defense date: 10th September 2019.
2. Ellen F. Grumert. (2018). *Using connected vehicles in variable speed limit systems: system design and effects*. 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. Defense date: 20th April 2018.
 3. María Elena García Jiménez. (2017). *Desarrollo de modelos de velocidad de operación de vehículos ligeros en carreteras convencionales, considerando sus características geométricas y operacionales*. Director: Prof. Dr. Alfredo García García. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de València. Defense date: 25th July 2017
 4. Hugo Badia Rodríguez. (2016). *Comparison of bus network structures versus urban dispersion: A monocentric analytical approach. Evidences from Barcelona's bus network*. Director: Prof. Dr. Miquel Estrada Romeu and Prof. Dr. Francesc Robusté Antón. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech. Defense date: 19th December 2016.
 5. Álvaro García Castro. (2016). *Understanding how to reduce road transport emissions. Modelling the impact of eco-driving*. Director: Prof. Dr. Andrés Monzón De Cáceres. Mark: Excellent with International distinction. Universidad Politécnica de Madrid. Defense date: 19th May 2016.
 6. César Trapote Barreira. (2015). *Methodology for optimal design of efficient air transport network in a competitive environment*. Director: Prof. Dr. Francesc Robusté Antón. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech. Defense date: 16th December 2015.
 7. Carlos Augusto Kaffure Ruiz. (2014). *Modelización de perfiles del ruido producido por vehículos en dispositivos moderadores de tráfico*. Director: Prof. Dr. Alfredo García García. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de València. Defense date: 28th July 2014.
 8. Josep Maria Salanova Grau. (2013). *Modeling of taxi cab fleets in urban environment*. Author:.. Director: Prof. Dr. Miquel Àngel Estrada Romeu. Mark: Excellent with Cum Laude distinction. Universitat Politècnica de Catalunya – BarcelonaTech. Defense date: 19th December 2013

Congresses, courses, seminars and invited talks

- (1) 2026 *Unite! Sustainable Mobility Forum*. “Data & Technology: A necessary but not sufficient condition for sustainable mobility”. Organized by UNITE! European University Alliance, with the generous support of the Unite! Seed Fund. June 5th, 2026.
- (2) 2026 *TRA - 2026 - Transport Research Arena*. Budapest (Hungary). May 18 – 21, 2026. Paper: “Modelling urban air pollution exposure across travel modes using high-resolution emissions and mobility data” (Paper #404). G. H. Carvalho Rezende, R. H Moraes Pereira, M. Martínez-Díaz and F. Soriguera.
- (3) 2026 *6th Scientific Campus of the Spanish Transportation Engineering Forum (6^o Campus Científico del Foro de Ingeniería del Transporte)*. 7th & 8th May, 2026; Residencia Lucas Olazábal, Polytechnic University of Madrid (UPM), Cercedilla (Spain). Presentations under the direction of **F. Soriguera**: “Where could motorized trips shift to bike-sharing? A spatial sustainability analysis for the Bicing system in the Barcelona metropolitan area”. Author: Ardeshir Kohandel Shirazi; “Distraction in the Loop: Kinematic Effects of Human Control in Level 3 Autonomous Vehicles”. Author: Mohammad Khashayarfar.
- (4) 2026 *8th IRTAD Conference - International Traffic Safety Data and Analysis Group*. Athens (Greece). April 15 – 17, 2026. Paper: “Connected automated vehicle platooning: Conflict severity and safety outcomes across lane management strategies” (Paper #11). M. Khashayarfar, M. Martínez-Díaz and **F. Soriguera**.
- (5) 2026 Course on “*Vehicle Automation - Application and Opportunities in the Transport Sector - 8th Edition (updated and expanded)*.” (*Automatización de vehículos - Aplicación y oportunidades en el sector transporte - 8ª edición (actualizada y ampliada)*). Organized by ASEPA - Asociación Española de Profesionales de Automoción and INSIA - Instituto Universitario de Investigación del Automóvil. **F. Soriguera** participation as a professor. Online, April 21st, 2026.
- (6) 2025 *11th Symposium on Urban Mobility Challenges: Shaping cities and vehicles for a common future*. CARNET (Cooperative Automotive Research Network). Barcelona Civil Engineering School, November 3rd, 2025.

- (7) 2025 *Unite! Sustainable Mobility Forum*. “Public bike-sharing systems (BSS): Principles of modeling and design”. Organized by UNITE! European University Alliance, with the generous support of the Unite! Seed Fund. October 24th, 2025.
- (8) 2025 *IEEE IV 36th - IEEE Intelligent Vehicles Symposium*. Cluj – Napoca (Romania). June 22 – 25, 2025. Paper: “An interaction-aware predictive control framework with adaptive gap regulation in connected and automated vehicle platoon” (316). X. Zheng, **F. Soriguera**, C. Xie and S. N. Moode.
- (9) 2025 *TRISTAN XII - 12th Triennial Symposium on Transportation Analysis conference*. Okinawa (Japan). June 22-27, 2025. Paper: “Lane management strategies to enhance traffic performance in mixed traffic environments with platoons of connected autonomous vehicles” (253). S. N. Moode, **F. Soriguera**, B. Chao, M. Martínez-Díaz.
- (10) 2025 *XVI Congreso de Ingeniería del Transporte*. Zaragoza (Spain), June 18-20, 2025. Papers: “Defining service area and station location of public bicycle-sharing systems: A review”, A. Kohandel Shirazi and **F. Soriguera**; “A comprehensive approach to assess walkability and cyclability through an equity lens”, G. Carvalho Rezende, M. Martínez-Díaz and **F. Soriguera**; “Incorporating driver distraction into microscopic traffic models: A review”, M. Khashayarfar, M. Martínez-Díaz and **F. Soriguera**; “Lane management strategies for CAV platoons: a comparative study of mixed and dedicated lanes”, S. N. Moode M. Martínez-Díaz and **F. Soriguera**; “Decentralized model predictive control for CAV platoon car-following in mixed traffic based on motion prediction”, X. Zheng, **F. Soriguera** and C. Xie; “Spatial-temporal analysis of station load in docked bike-sharing systems: Barcelona’s Bicing case study”, X. Zhang and **F. Soriguera**. Member of the Scientific Committee.
- (11) 2025 *Unite! Sustainable Mobility Forum*. “Data & Technology: A necessary but not sufficient condition for sustainable mobility”. Organized by UNITE! European University Alliance, with the generous support of the Unite! Seed Fund. June 6th, 2025.
- (12) 2025 Webinar: “*Vehículos autónomos y conectados y sus efectos en la movilidad sostenible del futuro*” (“Autonomous and connected vehicles and their effects on the sustainable mobility of the future”). Organized by the Fundación Repsol – Universidad Politécnica de Madrid (UPM). 3rd June 2025. Online. **F. Soriguera** participation in the expert panel contributors.
- (13) 2025 *TRB 104th Annual Meeting*. Washington, D. C. January 5-9th, 2025. Paper: “Impact of lane management strategies of connected autonomous vehicle platoons on traffic flow: A simulation study” (25-03784). B. Chao, S. N. Moode, M. Martínez-Díaz and **F. Soriguera**.
- (14) 2024 Course on “*Vehicle Automation - Application and Opportunities in the Transport Sector - 7th Edition (updated and expanded)*.” (*Automatización de vehículos - Aplicación y oportunidades en el sector transporte - 7ª edición (actualizada y ampliada)*). Organized by ASEPA - Asociación Española de Profesionales de Automoción and INSIA - Instituto Universitario de Investigación del Automóvil. **F. Soriguera** participation as a professor. Online, October 17th, 2024.
- (15) 2024 *Conference in Emerging Technologies in Transportation Systems (TRC-30)*, Heraklion, Crete (Greece). September 2-4, 2024. Paper: “Definition of strategies to optimize the platooning of connected automated vehicles on freeways”. **F. Soriguera**, M. Martínez-Díaz, B. Chao, S.N. Moode, and M. Sala.
- (16) 2024 *5th Symposium on Management of Future motorway and urban Traffic Systems (MFTS)*. Heraklion, Crete (Greece). September 4-6, 2024. Paper: “Examining Emergency Braking in Connected Autonomous Vehicle Platooning: Collision Risk and Severity Analysis”, S.N. Moode, **F. Soriguera**, X. Zheng and M. Martínez-Díaz. **F. Soriguera** was Member of the Scientific Committee.
- (17) 2024 *12th Symposium of the European Association for Research in Transportation (hEART)*. Aalto University, June 18-20, 2024. Paper: “Exploring Safety in Platoons of Connected Autonomous Vehicles: Investigating Emergency Braking Conditions and Collision Severity”, S.N. Moode, **F. Soriguera**, X. Zheng and M. Martínez-Díaz.
- (18) 2023 *9th Symposium on Urban Mobility Challenges: The Future of autonomous and connected vehicles*. **F. Soriguera** was round table moderator: Future of Autonomous and connected vehicles - Robotics, Data & AI. CARNET (Cooperative Automotive Research Network). Barcelona Civil Engineering School, November 6th, 2023.
- (19) 2023 *25th Euro Working Group Transportation congress*. Santander (Spain), September 6-8, 2023. Papers: “Effect of platoons of connected automated vehicles on freeway capacity: a microsimulation analysis”, M. Martínez-Díaz and **F. Soriguera**; “String-stable car-following model algorithm for platoons of connected autonomous vehicles”, S.N. Moode and **F. Soriguera**.
- (20) 2023 *XV Congreso de Ingeniería del Transporte*. La Laguna (Tenerife, Spain), June 14-16, 2023. Papers: “Demand forecast on bike-sharing stations using machine learning regression analysis”, E. Jiménez and **F. Soriguera**; “Microsimulation of the platooning of connected automated vehicles on freeways”, L. Oriol, M. Martínez-Díaz, M. Sala, **F. Soriguera**. “Microscopic modeling of Connected Autonomous

- Vehicles platooning: stability and safety analysis”, S. N. Moode and **F. Soriguera** (S. N. Moode received the *Premio PTV Group al Joven Investigador sobre "Movilidad y Accesibilidad en Transporte"*); “Platooning of Connected Autonomous Vehicles in freeway traffic: state of the art”, S. N. Moode and **F. Soriguera**. **F. Soriguera** was Member of the Scientific Committee.
- (21) 2023 Seminar entitled "*Macroscopic modeling and control of multimodal systems.*" Presenter: Prof. Nikolas Geroliminis (Urban Transport Systems Laboratory; Ecole Polytechnique Fédérale de Lausanne (EPFL)). Universitat Politècnica de Catalunya, Barcelona, February 23rd, 2023.
- (22) 2023 Seminar entitled "*Research at the Mobility and Transport Laboratory, Politecnico di Milano*" Presenter: Dr. Luca Studer (Manager of the Mobility and Transport Laboratory. Politecnico di Milano.). Universitat Politècnica de Catalunya, Barcelona, June 7th, 2023.
- (23) 2022 *4th Scientific Campus of the Spanish Transportation Engineering Forum (4^o Campus Científico del Foro de Ingeniería del Transporte)*. 25th & 26th May, 2022; Residencia Lucas Olazábal, Polytechnic University of Madrid (UPM), Cercedilla (Spain). Presentations under the direction of **F. Soriguera**: Connected Autonomous Vehicles platooning: State of the art. Author: Seshadri Naik Moode.
- (24) 2021 *XIV Congreso de Ingeniería del Transporte*. Burgos, July 6-8, 2021. Papers: “Case of study of a mixed carsharing system design”, E. Jiménez and **F. Soriguera**; (E. Jiménez received the *Premio PTV Group al Joven Investigador sobre "Modelización y Simulación de Sistemas de Transporte, Servicios y Nuevas Tecnologías"*); “Platooning of connected automated vehicles on freeways: a bird’s eye view”, M. Martínez-Díaz, Christelle Al-Haddad, **F. Soriguera** and Constantinos Antoniou. **F. Soriguera** is Member of the Scientific Committee.
- (25) 2020 Contribution to the exhibition entitled “*Metropolies of Cities*” (“*Metròpolis de ciutats*”). Organized by the Barcelona Metropolitan Area administration (AMB – Àrea Metropolitana de Barcelona) in the context of the dissemination of the development of the new urban planning for the Barcelona metropolis (PDU - Pla director urbanistic metropolità). Itinerant in Catalonia. 2020.
- (26) 2019 *22nd EURO Working Group on Transportation Meeting (EWGT)*. 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**. **F. Soriguera** was Member of the Scientific Committee and Member of the Organizing Committee. Chairman in 1 session.
- (27) 2019 *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 **F. Soriguera**: “Macroscopic Modeling of freeway platooning under mixed traffic conditions”. Author: Marcel Sala. “Modeling bike-sharing repositioning”. Author: Enrique Jiménez. Award to E. Jiménez for the best scientific contribution in the Campus FIT.
- (28) 2019 *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**.
- (29) 2018 *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.
- (30) 2018 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.
- (31) 2018 *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**. **F. Soriguera** is Member of the Scientific Committee. Chairman in 2 sessions.
- (32) 2017 *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.
- (33) 2017 *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. Martínez and **F. Soriguera**.
- (34) 2017 *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.
- (35) 2016 *XII Congreso de Ingeniería del Transporte*. Valencia, June 7-9, 2016. Papers: "Driver feedback mobile app: a tool for road safety improvement". **F. Soriguera** and E. Miralles. "Measuring traffic flow and lane changing from semi-automatic video processing", M. Sala and **F. Soriguera**; "Highway travel time information system based on cumulative count curves and new tracking technologies". **F. Soriguera**, M. Martínez-Díaz and I. Pérez. **F. Soriguera** is Member of the Scientific Committee. Chairman in 1 session.
- (36) 2016 *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". **F. Soriguera**, I. Martínez, M. Sala and M. Menéndez. **F. Soriguera** is Member of the Scientific Committee.
- (37) 2016 *6º Encuentro de la DGT con Investigadores Nacionales*. Dirección General de Tráfico. Madrid, May 18th, 2016.
- (38) 2016 *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.
- (39) 2015 *Curso de Formación de Evaluadores de la DGT*. Training course for the DGT staff – Spanish Traffic Administration. **F. Soriguera** Invited talk: New Technologies in Traffic Management. October 14-15th, 2015.
- (40) 2015 *TØI Seminar Series. Transportøkonomisk institutt*. **F. Soriguera** Invited talk: Intelligent Transportation: The Missing Link. June 11th, 2015.
- (41) 2015 *TØI Seminar Series. Transportøkonomisk institutt*. **F. Soriguera** Invited talk: Driver Feedback Mobile App: A Tool for Road Safety Improvement. May 19th, 2015.
- (42) 2015 *CMU Pedralbes Seminar Series*. **F. Soriguera** Invited talk: Intelligent Transportation: The Missing Link. February 26th, 2015.
- (43) 2015 *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
- (44) 2014 *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.
- (45) 2014 *AIC Next – Creativity, Innovation and Values 2014*. October 23rd 2014, Amorebieta-Etxano (Bizkaia). **F. Soriguera** Invited talk: Intelligent Transportation Systems. Promoted by the Automotive Intelligence Center.
- (46) 2014 *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.
- (47) 2014 *XI Congreso de Ingeniería del Transporte*. Santander, June 9-11, 2014. Paper: "Freeway lab: testing dynamic speed limits", **F. Soriguera** and M. Sala. **F. Soriguera** is Member of the Scientific Committee. Chairman in 1 session.
- (48) 2014 *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**.
- (49) 2014 *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.
- (50) 2013 *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**.
- (51) 2012 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.
- (52) 2012 Short Course on “*Mobility in Smart cities*”. Barcelona, September 17 – 21, 2012. “Traffic Management in Smart Cities”. **F. Soriguera** was one of the professors.
- (53) 2012 *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.
- (54) 2012 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.
- (55) 2012 *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**. **F. Soriguera** is Member of the Scientific Committee. Chairman in 2 sessions.
- (56) 2012 *TRB 91st Annual Meeting*. Washington, D. C. January 22-26th, 2012. Paper: “Deriving traffic demand patterns from historical data”. **F. Soriguera** and D. Rosas.
- (57) 2011 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.
- (58) 2011 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.
- (59) 2011 *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**.
- (60) 2010 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.
- (61) 2010 Seminar “*HOV lane analysis. How they affect traffic flow?*” by Monica Menendez (ETH Zurich), Barcelona, December 16th 2010.
- (62) 2010 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.
- (63) 2010 *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**.
- (64) 2010 *3rd Catalonia ITS Conference*. Barcelona, March 3-4, 2010. “Advanced traffic management in metropolitan freeways: some policies”. Presenter: **F. Soriguera**.
- (65) 2010 *Catalan Civil Engineers Association Session*. Barcelona, 1 February 2010. “Environmental traffic management: a conceptual approach” (Gestión Ambiental del Tráfico: Realidad y Futuro.). Jornadas del CECCP. Presenter **F. Soriguera**.
- (66) 2010 *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.
- (67) 2009 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.
- (68) 2009 *Cenit R+D+I Seminar*. Barcelona, October 9th, 2009. “A conceptual approach to dynamic speed limit management”. Presenter: **F. Soriguera**.
- (69) 2009 *IV Barcelona Tech Summer Sessions*. Barcelona, June 22– 26, 2009. “A conceptual approach to dynamic speed limit management”. Presenter: **F. Soriguera**.
- (70) 2009 Course: “*Innovations in urban traffic: modeling and management*” by Carlos F. Daganzo (UC Berkeley), Barcelona, May 14th 2009.
- (71) 2009 *2nd Catalonia ITS Conference*. Barcelona, February 19th – 20th 2009. “Could drivers drive at a lower speed and still arrive earlier?”. Presenter: **F. Soriguera**.

- (72) 2008 *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.
- (73) 2008 *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.
- (74) 2008 *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.
- (75) 2007 *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.
- (76) 2007 *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.
- (77) 2006 *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.
- (78) 2006 *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.
- (79) 2006 *Time Series Analysis Course*. Department of Statistics and Operational Research. UPC – Technical University of Catalonia. Academic course: 2005-2006.
- (80) 2006 *3rd International Conference Maritime Transport*. 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.
- (81) 2006 *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.
- (82) 2005 *European Transport Conference*. Strasbourg, France, October 3-5th, 2005. Participation as chairman substitute.
- (83) 2004 *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

Subjects taught	Subject	Degree	Course	ECTS	Lang.	% ¹	R/C ²
2012 - currently	Urban Mobility	MECCP	2 nd	5	Eng.	80%	R
2020 - currently	Traffic	MUM	2 nd	5	Eng.	90%	R
2020 - currently	Operation & Management of Transport Systems	MUM	1 st	5	Eng.	100%	R
2024 - 2025	Innovative Solutions to Mobility Business Challenges	MUM	1 st	5	Eng.	20%	R
2020 - 2024	Sistemas de Transporte	GEC 20	3 rd	6	Esp.	100%	C
2015 - 2021	Transportation Planning and Management on the Territory	MECCP	1 st	6	Eng.	4%	C
2013 - 2019	Transporte	GEC 10 (E)	3 rd	6	Eng.	100%	C
2015 - 2019	Traffic	MSCTM (E)	2 nd	5	Eng.	100%	R

2014 - 2019	Operaciones en Sistemas de Transporte y Logísticos	MSCTM (E)	1 st	5	Esp.	100%	R
2010 - 2014	Accesibilidad y Cohesión de Redes de Transporte	MLTM (E)	1 st	5	Esp.	21%	R/C
2008 - 2014	Análisis del Flujo de Tráfico	MLTM (E)	2 nd	5	Esp.	100%	R
2007 - 2014	Movilidad Sostenible, Externalidades y Ecomovilidad	MLTM (E)	1 st	5	Esp.	57%	R
2008 - 2012	Transporte Colectivo Urbano	MLTM (E)	1 st	5	Esp.	15%	C
2008 – 2011	Transport II	ECCP (E)	4 th	3	Cat.	34%	C
2010	Ingeniería del Transporte y Ordenación del Territorio	MEC (E)	1 st	3	Esp.	8%	C
2009 - 2010	Operaciones y Demanda en Sistemas de Transporte y Logísticos	MLTM (E)	1 st	5	Esp.	18%	C
2009 - 2010	Organización y Planificación del Transporte y la Navegación	LNTM (E)	4 th	4.5	Esp.	33%	C
2007 - 2011	Transport i Territori	ECCP (E)	2 nd	3	Cat.	21%	C
2007 - 2011	Logística i Terminals de Transport	ECCP (E)	5 th	4.5	Cat.	16%	C
2007 - 2011	Trànsit i Transport Urbà	ETOP (E)	3 rd	4.5	Cat.	59%	R
2008 - 2010	Transport Urbà	ECCP (E)	5 th	4.5	Cat.	33%	R/C
2008	Gestión del Tráfico Urbano	MLTM (E)	1 st	5	Esp.	4%	C
2007 – 2008	Logística del Transporte	DNM (E)	3 rd	4.5	Esp.	13%	C

Legend: ¹ Percentage of the teaching of the subject taught by the F.Soriguera; ² R = Responsible, C = Collaborator. Degrees: MECCP: Máster en Ingeniería de Caminos, Canales y Puertos (Escola de Camins); MUM: Master in Urban Mobility; MSCTM: Máster en Supply Chain, Transporte y Movilidad (ETSEIB+Escola de Camins); GEC: Grado en Ingeniería Civil (ETSECCPB); MEC: Máster en Ingeniería Civil (ETSECCPB); MLTM: Máster en Logística, Transporte y Movilidad (ETSEIB + ETSECCPB); ECCP: Ingeniería de Caminos, Canales y Puertos (ETSECCPB); ETOP: Ingeniería Técnica de Obras Públicas (ETSECCPB); DNM: Diplomatura en Navegación Marítima (FNB); LNTM: Licenciatura en Náutica y Transporte Marítimo (FNB); (E): Degree discontinued.

Student's Assessment

2025	4.27 out of 5.
2024	4.55 out of 5.
2023	4.00 out of 5.
2022	4.40 out of 5.
2021	4.22 out of 5.

Weighted average by number of responses in all subjects to the question "Did the professor help me to learn?" (*El/la professor/a m'ha ajudat a aprendre?*) in a 1 (worst) to 5 (best) scale.

Master / bachelor thesis directed

1. Yiwei Wei. (2025). *Optimizing freeway traffic performance via lane management strategies for CAV platoons in mixed-traffic environments*. Master in Urban Mobility. Mark: 8.0.
2. Sarah Guedj. (2025). *Assessing the safety of platooning for Connected Autonomous Vehicles*. Mise en Situation Professionnelle. ENTPE Lyon - UPC BarcelonaTech.
3. Àlex Perpiñà-Robert i Gispert. (2025). *Feasibility analysis of the Costa Brava train-tram - demand study*. (Anàlisi de factibilitat del tren-tramvia de la costa brava - estudi de demanda – In Catalan). Master in Civil Engineering. Mark: 8.5. Codirected with Raquel López (MCrit).
4. Marc López i Blanco. (2025). *Design of the bus network in the city of Gijón*. (Diseño de la red de autobuses en la ciudad de Gijón – In Spanish). Master in Civil Engineering. Mark: 10.

5. Carlos Arturo León Acevedo. (2024). *Assessing accessibility to essential services by sustainable transportation in urban areas*. Master in Urban Mobility. Mark: 8.5.
6. Bryce Chao. (2024). *Microscopic Modeling and Simulation of Highway Platooning*. Master in Urban Mobility. Mark: 8.5.
7. André Maia Pereira. (2024). *Implementing a new car-following model by building a custom SUMO source version*. International research placement within the EIT Urban Mobility Doctoral Training Network.
8. Brune de Rodellec du Porzic. (2023). *Aimsun Next software and Python platooning API*. Mise en Situation Professionnelle. ENTPE Lyon - UPC BarcelonaTech.
9. Pierre-Antoine Delate. (2021). *Microsimulation of connected automated vehicles in platooning conditions in highways*. Master in Civil Engineering. Mark: 9.5. Codirected with Prof. Marcel Sala (UPC).
10. Pablo Sanz Tuñón. (2021). *Handling non-unique flows in macroscopic first-order intersection models by applying an equilibrium*. Master in Civil Engineering. Mark: 7.0. Codirected with Prof. Chris Tampère (KU Leuven).
11. Leyre-Olenka Sánchez Zamora. (2020). *Dynamic toll pricing model for express lanes based on real-traffic conditions*. Master in Civil Engineering. Mark: 9.0. Codirected with Prof. Jorge Poveda (University Colorado, Boulder).
12. Marina Tirado Martín. (2020). *Macroscopic model for the optimal design of a car-sharing system*. Master in Civil Engineering. Mark: 9.5.
13. Julia Rio Arce. (2020). *Analytical definition of city urbanization models promoting sustainable mobility*. Bachelor in Civil Engineering. Mark: 10. MH. Codirected with Prof. Javier Ortigosa (UPC). Honorable mention in the 18th ABERTIS Prize in Management of Transportation Infrastructures.
14. Gerard Espinet. (2020). *Optimization of free-floating bike-sharing systems operations*. Master in Civil Engineering. Mark: 9.0.
15. Jaime Sierra. (2019). *Planning and assessment of urban collective transportation system using simulation: Seville's metro case study*. Master in Civil Engineering. Mark: 9.5.
16. Mathis Boukhellouf. (2019). *Un aperçu de l'apport des véhicules connectés et automatisés: impacts sur la circulation et la sécurité routière*. Mise en Situation Professionnelle. ENTPE Lyon - UPC BarcelonaTech.
17. Jaume Torres Bonet. (2019). *Demand prediction of public bike sharing services using machine learning algorithms*. Master in Civil Engineering. Mark: 9.5.
18. Peejeh Sahagun. (2019). *Platooning of autonomous vehicles Operating on an automated highway system (AHS)*. Master in Supply Chain, Transport and Mobility. Mark: 9.0.
19. Laura Oriol Herrera. (2019). *Microscopic modelling and simulation of autonomous vehicle platooning on highways*. Master in Civil Engineering. Mark: 9.5.
20. Alicia Alcoba Corominas. (2018). *Modeling of traffic instabilities and phantom jam: The LWR model with stochastic speed-density relation*. Master in Civil Engineering. Mark: 10. Codirected with Prof. Wenlong Jin (UC Irvine).
21. Adrià Morales Fresquet. (2018). *Evaluating the impacts of start-up and clearance behaviors in a signalized network: A network fundamental diagram approach*. Master in Civil Engineering. Mark: 9.5. Codirected with Prof. Wenlong Jin (UC Irvine).
22. Guilherme Chalhoub Dourado. (2018). *Bike-sharing system design: Guidelines on conceiving and implementing a BSS as a public transport with a monocentric heterogeneous demand*. Master in Supply Chain, Transport and Mobility. Mark: 10. The work obtained the spanish XVI ABERTIS Prize in Management of Transportation Infrastructures (master's thesis category).
23. Irene Martínez Josemaria. (2017). *Optimal location of variable speed limit application areas in freeways*. Master in Civil Engineering. 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.
24. Xavier Bach Coma. (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). Master in Logistics, Transportation and Mobility. Mark: 7.5. Codirected with Mr. Ole Thorson Jorgensen (INTRA).

25. Martí Montesinos Ferrer. (2016). *Analytical approach to landside system dynamics at airport passenger terminals: departmentalization and holistic view*. Bachelor in Civil Engineering. Mark: 8.5. Codirected with Prof. César Trapote Barreira (UPC). Honorable mention in the 14th ABERTIS Prize in Management of Transportation Infrastructures.
26. Adrià Torres Ventura. (2016). *Trajectory estimation using an iterative method*. Bachelor in Civil Engineering. Mark: 8.5. Codirected with Prof. Wenlong Jin (UC Irvine).
27. Víctor Casado Pérez. (2016). *Simulation of a public e-bike sharing system*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.0. Winner of the 14th ABERTIS Prize in Management of Transportation Infrastructures (master thesis category).
28. Enrique Jiménez Meroño. (2016). *Rebalancing strategies for bike-sharing systems. The case of "Bicing" Barcelona*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.5
29. Anna Llopis Montserrat. (2016). *Modelling shared vehicle systems with application to e-vehicles*. Master in Civil Engineering. Mark: 9.5.
30. Enric Miralles Miquel. (2015). *Driver feedback mobile app*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 8.5. Honorable mention in the 13th ABERTIS Prize in Management of Transportation Infrastructures.
31. Joel Plana (2015). *Effects of dynamic speed limits on a Dutch highway*. Bachelor in Civil Engineering. Mark: 10.0. Codirected with Prof. Andreas Hegyi (TU Delft).
32. Adrián Rey. (2015). *Vehicle trajectory estimation based on Newell's simplified kinematic wave model with heterogeneous Data*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 10.0. Codirected with Prof. Wenlong Jin (UC Irvine).
33. Anna Llopis Montserrat. (2014). *Modeling of shared bike systems with application to e-bikes*. Bachelor in Civil Engineering Mark: 10.0. Codirected with Prof. Nikolas Geroliminis (EPF Lausanne).
34. Carles Cañero. (2014). *Validation of the CL-CTM freeway merge model*. Bachelor in Civil Engineering. Mark: 8.5. Codirected with Dr. Josep M. Torné.
35. Carles Illera. (2014). *Analysis of actuated traffic light control on isolated intersections. (Anàlisi del control semafòric actuat en interseccions aïllades)*. Bachelor in Civil Engineering. Mark: 8.5. Codirected with Prof. Alvaro Seco (Universidade de Coimbra)
36. Irene Martínez Josemaria. (2014). *Effects of freeway traffic homogeneity on lane changing activity: The role of dynamic speed limits*. Bachelor in Civil Engineering. Mark: 10.0. Codirected with Prof. Mónica Menéndez (ETH Zurich). Winner of the 12th ABERTIS Award in Management of Transportation Infrastructures (master thesis category).
37. Xavier Casadevall. (2014). *Traffic flow analysis on a metropolitan freeway*. Master in Civil Engineering. Bachelor in Industrial Engineering. Mark: 9.0. Codirected with Dr. Josep M. Torné.
38. Marcel Sala. (2014). *Freeway traffic experiment – Empirical traffic data under dynamic speed limit strategies*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 6.0.
39. Jordi Janot. (2013). *Effects of variable speed limit strategies on a metropolitan highway*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.0. Codirected with Prof. Mónica Menéndez (ETHZ).
40. David Ramoneda. (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)*. MSc in Industrial Engineering (5 years - Pre-Bologna). Mark: 9.0.
41. Víctor Jodar. (2011). *The value of a highway travel time information system*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.0.
42. Andreu Tarrida. (2011). *Influence of non-recurrent events in traffic flows on a coastal highway*. Bachelor in Civil Engineering (3 years - Pre-Bologna). Mark: 8.0.
43. Jordi Soriguera. (2009). *Traffic stream macro and micro analysis in AP-7 turnpike*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.0. Winner "ex aequo" of the 7th ABERTIS Award in Management of Transportation Infrastructures (master thesis category).
44. Victor Jodar. (2008) *Analysis of travel time patterns in the AP-7 highway*. Bachelor in Civil Engineering (3 years - Pre-Bologna). Mark: 9.0.
45. Jorge Viver. (2008). *Analysis of traffic flow patterns in the AP-7 highway*. Bachelor in Civil Engineering (3 years - Pre-Bologna). Mark: 8.0.

46. Ricardo Iñiguez. (2007). *Traffic data treatment to obtain environmental assessment of fixed 80 km/h speed limitation in a freeway corridor near Barcelona*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 8.0.
47. Eduard Alberich. (2007). *Construction of traffic flow patterns in the AP-7 toll highway*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.0.
48. David Abeijón. (2007). *Road travel time data fusion*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.0.
49. Domènec Espinet. (2006). *Optimization of the internal transportation cycle in a maritime container terminal*. MSc in Civil Engineering (5 years - Pre-Bologna). Mark: 9.0.

Teaching publications

1. **Soriguera, F.**, E. Codina, M. R. Estela, M. Estrada, M. Fernández and L. Montero. (2026). *Engineering fundamentals for urban mobility*. Iniciativa Digital Politècnica. Oficina de Publicacions Acadèmiques Digitals de la UPC. ISBN: 979-13-88098-46-8. ISBN digital: 979-13-88098-47-5. DL: B 10948-2026. DOI: [10.5821/ebook-9791388098475](https://doi.org/10.5821/ebook-9791388098475).
2. **Soriguera, F.** (2022). *Transportation operations and traffic*. Course notes prepared for UPC students. To be published.
3. **Soriguera, F.** (2020). *Planning & design of public transportation systems – Key Concepts*. Draft course notes prepared for UPC students.

Teaching innovation activities

- 2025 *MOOC - Engineering fundamentals for urban mobility*. Massive Online Open Course. Innovation teaching project. Coordinator. 6 participants UPC. Funding: 26.710€. Available at <https://mooc.upc.edu>.
- 2023 *Training on AIMSUN NEXT traffic simulation software in the course "Traffic"*. The innovative teaching project aimed to include a flipped classroom module in the course related to the practical application of traffic operations concepts by means of a traffic simulation software. Funded by the European Institute of Innovation & Technology (EIT). Master in Urban Mobility Teaching Innovation Projects. Code: 23.1.1. Funding: 1.440€
- 2023 *Web for the mini-projects in the course "Operation & management of transport systems"*. <https://omtsprojects.wordpress.com/>. The proposed project aims to promote the dissemination of the students' work within the course projects. Funded by the European Institute of Innovation & Technology (EIT). Master in Urban Mobility Teaching Innovation Projects. Code: 23.1.3. Funding: 514€
- 2022 *Platoon Demonstration App*. The app consists in the representation of a one-directional freeway stretch (500m long) with two lanes. One lane is for CAVs platoons only (dedicated lane) and the other for regular vehicles (human driven). <https://upc-platoon.herokuapp.com/>.
- 2022 *Traffic Data Visualization App*. This tool computes traffic data aggregations in two different ways: i. According to Edie's generalized definitions and following the procedures described in Cassidy & Coifman (2007); ii. According to the common biased procedure typically used in Traffic Management Centers (TMC). <https://upc-traffic-data.herokuapp.com/>.
- 2022 *New teaching materials and dissemination of results in the course "Operation & management of transport systems"*. Funded by the European Institute of Innovation & Technology (EIT). Funding: 1.500€. Lead researcher. Number of researchers =1.
- 2022 *New teaching materials and dissemination of results in the course "Traffic"*. Funded by the European Institute of Innovation & Technology (EIT). Funding: 4.931€. Lead researcher. Number of researchers =2.
- 2021 *Operations in Transportation: Mini Project Website*. The website presents the projects performed by the students of UPC to tackle actual mobility / operations problems that the people face in Barcelona everyday. <https://algae-seadragon-2wcm.squarespace.com>. Password: miniproject.
- 2020 *Freeway capacity drop demonstration with the rice experiment*. Could freeway access control increase capacity? Rice and cars... what they have in common? Look at the rice experiment to

illustrate the “capacity drop” phenomenon in traffic and the effects of control.
<https://www.youtube.com/watch?v=RS3fdpLOD3A>

2020 *Traffic shockwaves in a trajectories diagram*. This simulation represents a traffic stream in a map of trajectories on the time-space plane and illustrates the concept of shock-waves and their role in the prediction of the queue propagation. <https://www.youtube.com/watch?v=Fn3HMAaEfcQ>

Teaching training

2026 *Challenge-Based Learning*. (Aprendre en base a reptes). Jornada d'Innovació Docent 2026 de l'Escola de Camins. Institut de Ciències de l'Educació-UPC. April 8th, 2026, (2h course).

2025 *Teaching Improvement and Innovation Seminar (Barcelona Civil Engineering School)*. Jornada d'Innovació i Millora Docent 2025 de l'Escola de Camins. Institut de Ciències de l'Educació-UPC. April 30th, 2025, (2h seminar).

2024 *Workshop “What is the sustainability analysis in the bachelor / master thesis?”*. 2nd edition. (En què consisteix l'anàlisi de sostenibilitat del TFG/TFM?). Institut de Ciències de l'Educació-UPC. May 9th, 2024, (2h workshop).

2023 *Course “Inclusive and non-sexist language in teaching and research in Catalan and Spanish”*. (El llenguatge inclusiu i no sexista en la docència i la recerca en català i castellà). Institut de Ciències de l'Educació-UPC. May 10th, 2023, (1h course).

2022 *Certificate of English for teaching purposes*. Universitat Pompeu Fabra. Grade: 4.17/5.

2021 *Workshop “Qualifications management in ATENEA. Advanced Tools.”* 2nd edition. (Gestió de qualificacions a ATENEA. Eines avançades.) Institut de Ciències de l'Educació-UPC. November 11th, 2021, (2h workshop).

2020 *Course “How I use Meet to teach”*. (Com faig servir Meet per fer classes). Institut de Ciències de l'Educació-UPC. April 1st, 2020, (1h course).

2020 *Workshop “Doubts and questions about ATENEA Exams: the new platform for taking non-face-to-face exams at the UPC.”* (Dubtes i preguntes sobre ATENEA Exams: la nova plataforma per a la realització d'exàmens no presencials de la UPC). Institut de Ciències de l'Educació-UPC. May 28th, 2020, (1h workshop).

2020 *Course “Remote assessments using questionnaires / tasks”*. 2nd Edition. (Avaluacions en remot mitjançant qüestionaris / tasques). Institut de Ciències de l'Educació-UPC. April 24th and 27th, 2020, (4h course).

2019 *The flipped classroom: tools and resources for its implementation*. (La classe invertida: eines i recursos per implementar-la) Institut de Ciències de l'Educació-UPC. June 3rd & 17th, 2019. (8h course)

2017 *Optimization of professors' tasks* (Optimització del treball del professorat) Institut de Ciències de l'Educació ICE-UPC. October 26th, 2017. (5h course)

2017 *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)

2016 *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)

2012 *Introduction to MATLAB programming*. Institut de Ciències de l'Educació ICE-UPC. July 2nd – July 4th, 2012. (16h course)

2012 *Interactive teacher speaking skills and strategies*. Institut de Ciències de l'Educació ICE-UPC. May 15th – June 19th, 2012. (18h course)

Awards to students

2023 *VI Premio Nacional de Investigación sobre Movilidad Urbana y Metropolitana – Asociación de Transportes Públicos Urbanos y Metropolitanos (Atuc Movilidad Sostenible)*. PhD Thesis: “Design, management, and simulation of vehicle-sharing systems”. Author: Enrique Jiménez. Director: F. Soriguera.

- 2023 *Honorable mention in the 3rd Premio Rafael Izquierdo a Tesis Doctorales del Foro de Ingeniería del Transporte.* PhD Thesis: "Design, management, and simulation of vehicle-sharing systems". Author: Enrique Jiménez. Director: F. Soriguera.
- 2023 *Premio PTV Group al Joven Investigador sobre "Movilidad y Accesibilidad en Transporte".* "Microscopic modeling of Connected Autonomous Vehicles platooning: stability and safety analysis", S. N. Moode and F. Soriguera. XV Congreso de Ingeniería del Transporte. La Laguna (Tenerife, Spain), June 14-16, 2023.
- 2021 *Premi extraordinari de doctorat, UPC – BarcelonaTech.* PhD Thesis "Modeling present and future freeway management strategies: Variable speed limits, lane-changing and platooning of connected autonomous vehicles". Author: Marcel Sala Sanmartí. Director: F. Soriguera.
- 2020 *Honorable mention in the XVIII ABERTIS Prize in Management of Transportation Infrastructures.* National and International categories. Bachelor Thesis "Analytical definition of city urbanization models promoting sustainable mobility." Author: Julia Rio Arce. Director: F. Soriguera and Javier Ortigosa.
- 2019 *XVII ABERTIS Prize in Management of Transportation Infrastructures.* National and International categories. PhD Thesis "Modeling present and future freeway management strategies: Variable speed limits, lane-changing and platooning of connected autonomous vehicles". Author: Marcel Sala Sanmartí. Director: F. Soriguera.
- 2019 *Award to the best contribution in the 3rd Scientific Campus of the Spanish Transportation Engineering Forum.* "Modeling Bike-sharing Repositioning". Enrique Jiménez. 3er Campus Científico del Foro de Ingeniería del Transporte. Residencia Lucas Olazábal, Polytechnic University of Madrid (UPM), Cercedilla (Spain), April 4-5, 2019.
- 2018 *Premio PTV Group al Joven Investigador sobre "Modelización y Simulación de Sistemas de Transporte, Servicios y Nuevas Tecnologías".* "Empirical findings regarding lane changing activity on Barcelona B-23 freeway", M. Sala and F. Soriguera. XIII Congreso de Ingeniería del Transporte. Gijón, June 6-8, 2018.
- 2018 *XVI ABERTIS Prize in Management of Transportation Infrastructures.* National and International categories. PhD Thesis "Highway travel time information systems: from traditional to cooperative driving environments". Author: Margarita Martínez Díaz. Director: F. Soriguera.
- 2018 *XVI ABERTIS Prize in Management of Transportation Infrastructures.* Master thesis category. Master Thesis "Bike-sharing system design: Guidelines on conceiving and implementing a BSS as a public transport with a monocentric heterogeneous demand". Author: Guilherme Chalhoub Dourado. Director: F. Soriguera.
- 2018 *2nd place in the [TRA VISIONS](#) 2018 young researcher competition* Road cluster, Awarded by the Transport Research Arena of the European Commission. Master Thesis "Optimal location of variable speed limit application areas in freeways". Author: Irene Martínez Josemaría. Director: F. Soriguera and Wenlong Jin (UC Irvine).
- 2017 *Honorable mention to the best contribution in the 2nd Scientific Campus of the Spanish Transportation Engineering Forum.* "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), M. Martínez and F. Soriguera. 2º Campus Científico del Foro de Ingeniería del Transporte. Residencia Lucas Olazábal, Polytechnic University of Madrid (UPM), Cercedilla (Spain), May 30-31, 2017.
- 2017 *XV ABERTIS Prize in Management of Transportation Infrastructures.* Master thesis category. Master Thesis "Optimal location of variable speed limit application areas in freeways". Author: Irene Martínez Josemaría. Director: F. Soriguera and Wenlong Jin (UC Irvine).
- 2016 *XIV ABERTIS Prize in Management of Transportation Infrastructures.* Master thesis category. Master Thesis "Simulation of a public e-bike sharing system". Author: Víctor Casado Pérez. Director: F. Soriguera.
- 2016 *Honorable mention in the XIV ABERTIS Prize in Management of Transportation Infrastructures.* Master thesis category. Master Thesis "Analytical approach to landside system dynamics at airport passenger terminals: departmentalization and holistic view". Author: Martí Montesinos Ferrer. Director: F. Soriguera and César Trapote.
- 2015 *Honorable mention in the XIII ABERTIS Prize in Management of Transportation Infrastructures.* Master thesis category. Master Thesis "Driver feedback mobile app". Author: Enric Miralles Miquel. Director: F. Soriguera.
- 2014 *XIV ABERTIS Prize in Management of Transportation Infrastructures.* Master thesis category. Master Thesis "Effects of freeway traffic homogeneity on lane changing activity: The role of

	dynamic speed limits". Author: Irene Martínez Josemaria. Director: F. Soriguera and Mónica Menéndez (ETH Zurich).
2013	<i>Honorable mention in the XI ABERTIS Prize in Management of Transportation Infrastructures.</i> National and International categories. PhD Thesis "Active traffic management strategies in metropolitan freeways: Modeling and assessing dynamic speed limit strategies". Author: Josep Maria Torné Santos. Director: F. Soriguera.
2009	<i>ExAequo VII ABERTIS Prize in Management of Transportation Infrastructures.</i> Master thesis category. Master Thesis "Traffic stream macro and micro analysis in AP-7 turnpike". Author: Jordi Soriguera. Director: F. Soriguera.

ACADEMIC MANAGEMENT

Academic management positions

2020-Present	Vice-dean of Master Studies and Coordinator of the Master Program in Civil Engineering (<i>Jefe de Estudios - Máster en Ingeniería de Caminos, Canales y Puertos</i>). Barcelona Civil Engineering School. UPC - BarcelonaTech.
2020-2025	Coordinator of the Master Program in Urban Mobility. Programme SUMT - Sustainable Urban Mobility Transitions. EIT Urban Mobility Master School. European Institute of Innovation and Technology. Barcelona Civil Engineering School. UPC - BarcelonaTech.
2016-2021	Coordinator of the Master Program in Supply Chain, Transport and Mobility. Barcelona School of Industrial Engineering. Barcelona Civil Engineering School. UPC – BarcelonaTech.

Member of academic boards

2020 - Present	Academic Commission of the Master Program in Urban Mobility. EIT Urban Mobility Master School. European Institute of Innovation and Technology. Barcelona Civil Engineering School. UPC - BarcelonaTech.
2016 - Present	Department of Civil and Environmental Engineering Advisory Board. <i>Consejo de Departamento.</i> UPC - BarcelonaTech.
2015 - Present	Barcelona Civil Engineering School Standing Committee. <i>Comisión Permanente.</i> UPC – BarcelonaTech.
2008 - Present	Barcelona Civil Engineering School Advisory Board. <i>Junta de Escuela.</i> UPC – BarcelonaTech.
2023	Expert Committee for the Thesis Contest among double degree Urban Mobility master's students of cohort 2021. EIT Urban Mobility Master School.
2014 - 2015	Department of Transport and Regional Planning Advisory Board. <i>Consejo de Departamento.</i> UPC – BarcelonaTech.

Member of scientific boards

2015 - Present	Jury of the "ABERTIS Research Award in Management of Transportation Infrastructures".
2025	Scientific Committee in the "6th Symposium on Management of Future motorway and Urban Traffic Systems (MFTS)". Naples (Italy), September 14-15, 2026.
2025	Scientific Committee in the "XVI Congreso de Ingeniería del Transporte", Zaragoza, June 18-20, 2025.
2024	Scientific Committee in the "5th Symposium on Management of Future motorway and urban Traffic Systems. Heraklion (Crete, Greece), September 4-6, 2024.
2023	Scientific Committee in the "XV Congreso de Ingeniería del Transporte", La Laguna (Tenerife), June 14-16, 2023.

2022	Scientific Committee in the "4th Symposium on Management of Future motorway and Urban Traffic Systems." Dresden (Germany) ,November 30 th – December 2 nd , 2022.
2021	Scientific Committee in the "XIV Congreso de Ingeniería del Transporte", Burgos, July 6-8, 2021.
2020	Scientific Committee in the "3rd Symposium on Management of Future motorway and Urban Traffic Systems". MobiLab Transport Research Group, Luxembourg (Luxembourg). July 6-8, 2020.
2019	Scientific Committee in the "22 nd EURO Working Group on Transportation Meeting (EWGT) 2019". Barcelona, 18 to 20 th September 2019.
2018	Scientific Committee in the "2nd Symposium on Management of Future motorway and Urban Traffic Systems". Joint Research Centre (JRC), Ispra (Italy). June 11-12, 2018.
2018	Scientific Committee in the "XIII Congreso de Ingeniería del Transporte". Gijón, June 6-8, 2018.
2017	Member of the "Round table in mobility and transport infrastructures". Urbanistic Master Plan for the Barcelona Metropolitan Region. (<i>Taula de mobilitat i infraestructures de transport. Pla director urbanístic. AMB - Àrea Metropolitana de Barcelona</i>). February – April 2017.
2016	Scientific Committee in the "1st Symposium on Management of Future motorway and Urban Traffic Systems". Chania (Greece) June 2-3, 2016.
2016	Scientific Committee in the "XII Congreso de Ingeniería del Transporte", Valencia, June 7-9, 2016.
2014	Scientific Committee in the "XI Congreso de Ingeniería del Transporte", Santander 9-11 June 2014.
2012	Scientific Committee in the "X Congreso de Ingeniería del Transporte", Granada 20-22 June 2012.
2008 - 2009	Chairman of the <i>Thesis Evaluation Committee</i> . Barcelona Civil Engineering School. UPC – BarcelonaTech.
2008	<i>Joint OECD / ITF Transport Research Committee</i> . Working Group on Surface Transport Networks: Improving Reliability and Levels of Service.

Journal guest editor

(Special Issues)

2021	<i>Transportation Letters</i> . Special issue on "Modeling, simulation and evaluation of transport scenarios in the presence of innovative solutions". Guest editors: Codina, E., B. Friedrich, F. Soriguera , and U. Crisalli. (2021). <i>Transportation Letters</i> , 13 (3). Print ISSN: 1942-7867 Online ISSN: 1942-7875. DOI 10.1080/19427867.2021.1892950 .
2020	<i>Transportation Research Procedia</i> . Special issue corresponding to the EURO Working Group on Transportation Meeting (EWGT) 2019. Editors: Codina, E., F. Soriguera , L. Montero, M. Estrada and M. P. Linares. (2020). <i>Transportation Research Procedia</i> 47. ISSN 2352-1465. DOI 10.1016/j.trpro.2020.03.065

Organization of scientific activities

2025	Seminar entitled " <i>Design of Traffic Management Strategies and Policy Recommendations leveraging Bathtub Models</i> ." Presenter: I. Martínez (TU Delft). Organized within the dissemination activities of the PLATOON project (PID2019-105331RB-I00. Spanish Ministry of Science and Innovation (Ministerio de Ciencia e Innovación). 8 th April 2025. Organized by F. Soriguera .
2019	Seminar entitled " <i>Project COOP – Cooperative freeway driving strategies in a mixed environment – driverless and traditional vehicles</i> ." Presenters: I. Pérez, F. Soriguera, M. Martínez, M. Sala and F. Robusté. Universidade da Coruña, October 17th, 2019.
2019	<i>Organizing Committee</i> . "22 nd EURO Working Group on Transportation Meeting (EWGT) 2019." Barcelona, 18 to 20 th September 2019.
2018	Course on " <i>Mobility managing using simulation as a support tool: Introduction to the PTV Group software packages</i> " (<i>Gestión de la movilidad apoyada en modelos de simulación. Introducción al software de PTV Group</i>). Taught by Mr. Ignacio Galindo, PTV Group. Barcelona Civil Engineering School, October 17 th and 18 th , 2018. Organized by F. Soriguera .

Journal review boards

(At least one paper reviewed for the journal)

Computer-Aided Civil and Infrastructure Engineering (Elsevier)
IEEE Transactions on Intelligent Transportation Systems (T-ITS)
IEEE Intelligent Transportation Systems Magazine (ITSM)
Journal of Advanced Transportation (Wiley)
Journal of Intelligent Transportation Systems: Technology, Planning, and Operations (Taylor & Francis)
Journal of Transportation Engineering (ASCE)
Journal of Simulation (Taylor & Francis)
Sustainable Cities and Society (Elsevier)
Transportation Research Part B – Methodological (Elsevier)
Transportation Research Part C – Emerging Technologies (Elsevier)
Transportation Science (Informs)
Transportation Research Record: Journal of the Transportation Research Board (TRB)
Transportmetrica B: Transport Dynamics (Taylor & Francis)

Project proposals evaluation

(At least one project reviewed for the agency)

Member of the panel for the evaluation of the “*Convocatoria, para el año 2021, del procedimiento de concesión de ayudas a proyectos de I+D+i en líneas estratégicas, en colaboración público-privada, del Programa Estatal de I+D+i Orientada a los Retos de la Sociedad, en el marco del Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020.*” Area of: “*Estrategias inteligentes de movilidad urbana y metropolitana*”.

Agency for Scientific and University Quality of Andalusia. (Agencia para la Calidad Científica y Universitaria de Andalucía - ACCUA).

ETH Zurich Research Commission.

Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT) de la Comisión Nacional de Investigación Científica y Tecnológica (CONICYT) de Chile.

Spanish National Agency for Evaluations and Prospective (ANEP-Agencia Nacional de Evaluación y Prospectiva).

Swiss Science National Foundation (SNF).

Transportation Research Board, TRB, National Research Council, Washington, D.C.

University of California Center on Economic Competitiveness in Transportation – UCCONNECT.

Associations

(Academic / Professional)

2010 - Present *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.

20 - Present *Spanish Civil Engineers Association.* (Colegio de Ingenieros de Caminos, Canales y Puertos). Member nº 21.753.

Media appearances

- 2026 *TV3 News Program*. Note on traffic congestion in the Barcelona ring roads. ([Té solució el col·lapse de les rondes? Què estudia Barcelona i què plantegen els experts](#)).
- 2025 *Diari Ara Newspaper*. Think piece. "Overtaking three trucks every minute: the new "toll" of driving on the AP-7" (*Avançar tres camions cada minut: el nou "peatge" de conduir per l'AP-7* - in Catalan). November 19th, 2025.
- 2025 *Tráfico y Seguridad Vial*. "12 pasajeros, ningún conductor". Article on the implementation of the autonomous vehicle. Periodical published by the *Dirección General de Tráfico (DGT)* (Spanish road traffic authority). October, 2025.
- 2024 *Nació Digital Newspaper*. Think piece. "Barcelona is preparing to remove more cars from the city: three keys to the immediate future" ([Barcelona es prepara per treure més cotxes de la ciutat: tres claus del futur immediat](#) - in Catalan). January 21st, 2024.
- 2018 *AMB – Metròpolis Barcelona*. [Think piece for the Barcelona Transport Authority \(ATM\)](#) about the present and future of mobility. August 8th, 2018.
- 2017 *TV3 News Program*. Note on traffic congestion in the freeways accessing Barcelona. <http://bit.ly/2vG5QPv>. August 6th, 2017.
- 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. March 18th, 2015.
- 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). April 28th, 2014.
- 2014 *La Xarxa, comunicació local*. TV and Radio network. Interview: On the efficiency of HOV lanes. The C-58 case. Program: *Notícies en Xarxa*. February 2014.
- 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. May 2011.
- 2011 *Cadena SER radio network*. Program "Hora L". Note on 110 km/h speed limit reduction on freeways. February 28th, 2011.
- 2011 *Catalunya Informació News radio network*. Round table about dynamic speed limit management in the freeways accessing Barcelona. Program: *Esfera Pública*. February 24th, 2011.
- 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). February 22nd, 2011.
- 2011 *ARA newspaper*. "El dia que deixarem de conduir" (The day when driving will be over). Think piece. February 6th, 2011.
- 2010 *infoTrànsit*, quarterly publication of the "Servei Català del Trànsit". Interview: How congestion can be alleviated in Catalonia?. June, 2010.
- 2010 *CAMINS.CAT*, monthly publication of the BarcelonaTech-UPC. Round table on "How speed limits on freeways favor traffic sustainability". March 2010.
- 2010 *Cadena SER radio network*. Note on social optimum freeway speed. February 22nd, 2010.
- 2010 *El Punt newspaper*. Interview on the effects of dynamic speed limit management in the freeways accessing Barcelona. January 8th, 2010.
- 2009 *ACN – Catalan News Agency*. Note on dynamic speed limit management in the freeways accessing Barcelona. 2 December 2009.
- 2009 *Catalunya Radio News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona. May 28th, 2009.
- 2009 *COM radio News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona. March 13th, 2009.
- 2009 *Informacions UPC magazine*; "What is the contribution of dynamic speed limit management in the freeways accessing Barcelona?", think piece. February 1st, 2009.
- 2009 *TV3 Program: "Els Matins" with Josep Cuní*. Round table about dynamic speed limit management in the freeways accessing Barcelona. January 15th, 2009.

- 2009 | *Tele 5, Program "La Mirada Crítica"*. Note on dynamic speed limit management in the freeways accessing Barcelona. January 14th, 2009.
- 2009 | *TV3 News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona. January 13th, 2009.
- 2009 | *Cadena SER radio News Program*. Note on dynamic speed limit management in the freeways accessing Barcelona. January 13th, 2009.
- 2008 | *El Periódico newspaper*, "Slowly, Faster", think piece. December 16th, 2008.
- 2008 | *El País newspaper*, "A motorbike lane", think piece. January 29th, 2008.
- 2007 | *Bcn Tv. Program: "Hola Barcelona"*. Discussion about Bicing in Barcelona. July 6th, 2007.