

David Font Vivanco, Ph.D.



*Curriculum Vitae, Full*

**David FONT VIVANCO, Ph.D.**

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<b>In brief</b>	15 years of professional experience: research (9), consultancy (3), technical (1) Publications: total (40), h-index (13), i10 index (15), total citations (462) Ph.D. in Industrial Ecology by Leiden University Postdoctoral Associate at Yale School of Forestry and Environmental Studies Research Associate at University College London Institute of Sustainable Resources Marie Skłodowska-Curie Individual Fellowship awardee Fellow of the Higher Education Academy (HEA) Two-times Graedel Prize awardee – Journal of industrial Ecology Junior Author Best Paper
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## CURRENT POSITION

### **Life Cycle Specialist**

2.0 LCA Consultants  
Aalborg (Denmark)

### **Teacher**

International Life Cycle Academy (ILCA)  
Barcelona (Spain)

## EDUCATION

- |             |   |
|-------------|---|
| <b>2016</b> | <u>Ph.D.</u> Industrial Ecology, Leiden University, Leiden, Netherlands. Thesis: “ <a href="#">The rebound effect through industrial ecology’s eyes: The case of transport eco-innovation</a> ” |
| <b>2011</b> | <u>Master of Science</u> Industrial Ecology, Universitat Autònoma de Barcelona, Barcelona, Spain.   |
| <b>2009</b> | <u>Master of Science</u> Renewable Energy Engineering and Management, Universitat de Barcelona, Barcelona, Spain.   |
| <b>2008</b> | <u>Bachelor Degree</u> Environmental Sciences, Universitat Autònoma de Barcelona, Barcelona, Spain.   |

## PROFESSIONAL EXPERIENCE

- 2019-present** Life Cycle Specialist, 2.0 LCA Consultants, Barcelona, Spain.  
**2019-present** Teacher, International Life Cycle Academy (ILCA), Barcelona, Spain.  
**2017-2019** Marie Curie Fellow, University College London, UCL Institute for Sustainable Resources, London, United Kingdom. Under supervision from Prof. Paul Ekins.  
**2016-2017** Postdoctoral Associate, Yale University, Yale School of Forestry and Environmental Studies, Centre for Industrial Ecology, New Haven, United States. Under supervision from Prof. Edgar Hertwich.  
**2012-2016** Researcher and Doctoral Candidate, Leiden University, Institute of Environmental Sciences, Department of Industrial Ecology, Leiden, Netherlands. Under supervision from Dr. Ester van der Voet, Prof. Arnold Tukker & Prof. Rene Kemp (University of Maastricht).  
**2009-2012** Environmental Consultant, ENT Environment and Management, Barcelona, Spain.  
**2009** Environmental Officer, Catalan Waste Agency, Barcelona, Spain.  
**2008-2009** Environmental Technician, Honeywell Fricción España, Department of Health, Safety and Environmental Quality, Barcelona, Spain.

## PUBLICATIONS

**Summary (Google Scholar):** h-index (13), i10 index (15), total citations (462), total publications (40).

### In refereed scientific journals

1. Vélez-Henao, J. A., **Font Vivanco, D.** & Hernández-Riveros, J. A. (2019). Technological change and the rebound effect in the STIRPAT model: A critical view. *Energy Policy*, 129, 1372-1381. [<https://doi.org/10.1016/j.enpol.2019.03.044>]
2. Mendoza Beltran, A., Cox, B., Mutel, C., van Vuuren, D., **Font Vivanco, D.**, Deetman, S., Edelenbosch, O., Guinée, J. & Tukker, A. (2018), When the background matters: Using scenarios from Integrated Assessment Models in Prospective LCA. *Journal of Industrial Ecology*. [<https://doi.org/10.1111/jieec.12825>]
3. **Font Vivanco, D.**, Hoekman, P., Fishman, T., Pauliuk, S., Niccolson, S., Davis, C., Makov, T. & Hertwich, E. (2018). Interactive Visualization and Industrial Ecology: Applications, Challenges, and Opportunities. *Journal of Industrial Ecology*. [<https://doi.org/10.1111/jieec.12779>]
4. **Font Vivanco, D.**, Sala, S., & McDowall, W. (2018). Roadmap to Rebound: How to Address Rebound Effects from Resource Efficiency Policy. *Sustainability*, 10(6). [<https://doi.org/10.3390/su10062009>]
5. Makov, T., & **Font Vivanco, D.** (2018). Does the circular economy grow the pie? The case of rebound effects from smartphone reuse. *Frontiers in Energy Research*, 6 (39). [<https://doi.org/10.3389/fenrg.2018.00039>]

6. **Font Vivanco, D.**, Wang, R., Deetman, S., & Hertwich, E. (2018). Unraveling the Nexus: Exploring the Pathways to Combined Resource Use. *Journal of Industrial Ecology*, 23 (1), 241-252. [<https://doi.org/10.1111/jiec.12733>]
7. Mendoza Beltran, A., Prado, V., **Font Vivanco, D.**, Henriksson, P. J. G., Guinée, J. B., & Heijungs, R. (2018). Quantified Uncertainties in Comparative Life Cycle Assessment: What Can Be Concluded?. *Environmental Science & Technology*, 52(4), 2152–2161. [<https://doi.org/10.1021/acs.est.7b06365>]
8. **Font Vivanco, D.**, Wang, R., & Hertwich, E. (2017). Nexus Strength: A Novel Metric for Assessing the Global Resource Nexus. *Journal of Industrial Ecology*, 22(6), 1473-1486. [<https://doi.org/10.1111/jiec.12704>]
9. **Font Vivanco, D.**, Sprecher, B., & Hertwich, E. (2017). Scarcity-weighted global land and metal footprints. *Ecological Indicators*, 83, 323-327. [<https://doi.org/10.1016/j.ecolind.2017.08.004>]
10. Wang, R., Zimmerman, J. B., Wang, C., **Font Vivanco, D.**, & Hertwich, E. G. (2017). Freshwater vulnerability beyond local water stress: the heterogeneous effects of water-electricity nexus across the continental United States. *Environmental Science & Technology* 51 (17), 9899-9910. [<http://dx.doi.org/10.1021/acs.est.7b01942>]
11. Freire-González, J. & **Font Vivanco, D.** (2017). The influence of energy efficiency on other natural resources use: An input-output perspective. *Journal of Cleaner Production* 162, 336-345. [<http://dx.doi.org/10.1016/j.jclepro.2017.06.050>]
12. Freire-González, J., **Font Vivanco, D.**, Puig-Ventosa, I (2017). Economic structure and energy savings from energy efficiency in households. *Ecological Economics* 131, 12-20. [<http://dx.doi.org/10.1016/j.ecolecon.2016.08.023>]
13. Salemdeeb, R., **Font Vivanco, D.**, Al-Tabbaa, A., zu Ermgassen, E.K.H.J., (2017). A holistic approach to the environmental evaluation of food waste prevention. *Waste Management* 59, 442-450. [<http://dx.doi.org/10.1016/j.wasman.2016.09.042>]
14. **Font Vivanco, D.**, Tukker, A., Kemp, R., (2016). Do methodological choices in environmental modeling bias rebound effects? A case study on electric cars. *Environmental Science and Technology* 50 (20), 11366-11376. [<http://pubsdc3.acs.org/doi/full/10.1021/acs.est.6b01871>]
15. **Font Vivanco, D.**, Kemp, R., van der Voet, E. (2016). How to deal with the rebound effect? A policy-oriented approach. *Energy Policy* 94, 114-125. [[doi: 10.1016/j.enpol.2016.03.054](https://doi.org/10.1016/j.enpol.2016.03.054)].
16. **Font Vivanco, D.**, McDowall, W., Freire-González, J., Kemp, R., van der Voet, E. (2016). The foundations of the environmental rebound effect and its contribution towards a general framework. *Ecological Economics* 125, 60-69. [<http://dx.doi.org/10.1016/j.ecolecon.2016.02.006>]
17. Nie, H., Kemp, R., **Font Vivanco, D.**, Vasseur, V. (2016). Structural decomposition analysis of energy-related CO2 emissions in China from 1997 to 2010. *Energy Efficiency*, 1-17. [[doi: 10.1007/s12053-016-9427-x](https://doi.org/10.1007/s12053-016-9427-x)]
18. **Font Vivanco, D.**, Kemp, R., van der Voet, E. (2015). The relativity of eco-innovation: environmental rebound effects from past transport innovations in Europe. *Journal of Cleaner Production* 101(0), 71-85. [<http://dx.doi.org/10.1016/j.jclepro.2015.04.019>]

19. **Font Vivanco, D.**, Freire-Gonzalez, J., Kemp, R., van der Voet, E. (2014). The remarkable environmental rebound effect of electric cars: A microeconomic approach. *Environmental Science & Technology* 48 (20), 12063–12072. [[doi: 10.1021/es5038063](https://doi.org/10.1021/es5038063)]
20. **Font Vivanco, D.**, van der Voet, E. (2014). The rebound effect through industrial ecology's eyes: a review of LCA-based studies. *The International Journal of Life Cycle Assessment* 19 (12), 1933-1947. [[doi: 10.1007/s11367-014-0802-6](https://doi.org/10.1007/s11367-014-0802-6)]
21. **Font Vivanco, D.**, Kemp, R., van der Voet, E., Heijungs, R. (2014). Using LCA-based decomposition analysis to study the multi-dimensional contribution of technological innovation to environmental pressures. *Journal of Industrial Ecology* 18, 380–392. [[doi: 10.1111/jiec.12118](https://doi.org/10.1111/jiec.12118)]
22. **Font Vivanco, D.**, Puig Ventosa, I., Gabarrell Durany, X. (2012). Building waste management core indicators through Spatial Material Flow Analysis: Net recovery and transport intensity indexes. *Waste Management* 32 (12), 2496-2510. [<http://dx.doi.org/10.1016/j.wasman.2012.06.010>]

### Book chapters

23. Tukker, A., & **Font Vivanco, D.**, 2017. Input-output analysis and resource nexus assessment, in Bleischwitz, R., Hoff, H., Spataru, C., van der Voet, E., & VanDeveer, S. D. (Eds.) *Routledge Handbook of the Resource Nexus*. Routledge.

### Book reviews

24. **Font Vivanco, D.**, 2017. Rethinking climate and energy policies: new perspectives on the rebound phenomenon. *Transport Reviews*. [<http://dx.doi.org/10.1080/01441647.2017.1307878>]

### Other non-refereed publications (reports, proceedings, deliverables, etc.)

25. **Font Vivanco, D.**, 2016. The rebound effect through industrial ecology's eyes: the case of transport eco-innovation. PhD Thesis. Institute of Environmental Sciences (CML), Faculty of Science, Leiden University. [<https://openaccess.leidenuniv.nl/handle/1887/38352>]
26. McDowall, W., Diaz Lopez, F., Seiffert, L., Kemp, R., Turkeli, S., Zoboli, R., Ekins, P., Ivanova, O., Chaim, M., **Font Vivanco, D.**, Huele, R., 2015. Environmental macro-indicators of innovation: policy, assessment and monitoring-EMInInn Final Report.
27. **Font Vivanco, D.**, Freire-González, J., Kemp, R., van der Voet, E., 2015. Method to calculate the microeconomic environmental rebound effect and case study on electric cars. Deliverable 6.3 of the EMInInn project.
28. **Font Vivanco, D.**, 2014. Carbon-CAP Workshop Paper 4: Environmental rebound effect from transport innovation and implications for climate policy. [[http://www.carboncap.eu/images/The\\_environmental\\_rebound\\_effect\\_from\\_transport\\_innovations\\_v2.docx](http://www.carboncap.eu/images/The_environmental_rebound_effect_from_transport_innovations_v2.docx)]

29. **Font Vivanco, D.**, Kemp, R., van der Voet, E., 2014. Ex post and ex ante environmental assessment of major transport innovations. Deliverable 6.2 of the EMInInn project.
30. **Font Vivanco, D.**, Kemp, R., van der Voet, E., 2014. Case study on the income rebound effect from new vehicle propulsion technologies. Task 6.1 of the EMInInn project.
31. **Font Vivanco, D.**, Kemp, R., van der Voet, E., 2013. Diffusion of Transport Innovations and their Environmental Impacts. Deliverable 6.1 of the EMInInn project.
32. **Font Vivanco, D.**, Kemp, R., van der Voet, E., Heijungs, R., 2013. Bottom-up ex-post analysis of innovations: Using LCA-based decomposition analysis to study the multi-dimensional contribution of technological innovation to environmental pressures. Task 3.3. of the EMInInn project.
33. **Font Vivanco, D.**, Puig, I., Jofra, M., 2013. Pla local de prevenció de residus municipals de Cornellà de Llobregat 2013-2016. Ajuntament de Cornellà de Llobregat [[http://www.cornella.cat/files/noticias/1752/Pla%20prevencio%20residus\\_ok.pdf](http://www.cornella.cat/files/noticias/1752/Pla%20prevencio%20residus_ok.pdf)]
34. **Font Vivanco, D.**, Puig, I., 2012. Los programas de prevención de residuos y su aplicación en el ámbito local (Waste prevention programmes and their implementation at local level). Revista Residuos 126, pp. 12-20.
35. **Font Vivanco, D.**, Puig, I., 2011. Programas locales de prevención de residuos (Local waste prevention programmes). Federación Española de Municipios y Provincias. Cuadernos de Administración Local 166, pp. 49-55. [<http://www.femp.es/files/11-3023-fichero/166-diciembre-2011.pdf?download=1>]
36. Puig, I., Calaf, M., **Font Vivanco, D.**, 2011. Pay-as-you-throw in Spain. Waste Age July 2011, pp. 26-30 [<http://waste360.com/pay-you-throw-payt/pay-you-throw-spain>]
37. Jofra, M, Puig, I., **Font Vivanco, D.**, Mestre, M, 2011. Estudio sobre modelos de gestión de residuos en zonas insulares (Study on waste management models in insular areas). Spanish Ministry of Environment and Rural and Marine Environments. [[http://www.magrama.gob.es/imagenes/es/Estudio%20sobre%20modelos%20de%20gesti%C3%B3n%20de%20residuos%20en%20entornos%20insulares\\_tcm7-183310.pdf](http://www.magrama.gob.es/imagenes/es/Estudio%20sobre%20modelos%20de%20gesti%C3%B3n%20de%20residuos%20en%20entornos%20insulares_tcm7-183310.pdf)]
38. **Font Vivanco, D.**, Puig, I., 2011. Les taxes d'escombraries a Catalunya (Waste charges in Catalonia). Catalan Waste Agency [[http://www20.gencat.cat/docs/arc/Home/Ambits%20dactuacio/Tipus%20de%20residu/Residus%20municipals/Estudis%20sobre%20residus%20municipals/Estudi%20taxes%20Catalunya\\_2011.pdf](http://www20.gencat.cat/docs/arc/Home/Ambits%20dactuacio/Tipus%20de%20residu/Residus%20municipals/Estudis%20sobre%20residus%20municipals/Estudi%20taxes%20Catalunya_2011.pdf)]
39. **Font Vivanco, D.**, Ortega, M., Freire, J., 2011. Guia sobre finançament i canvi climàtic (Guide on funding and climate change). Catalan Office on Climate Change [<http://www20.gencat.cat/docs/canviclimatic/Home/Campanyes%20i%20comunicacio/Publicacions/Els%20papers%20de%201%27OCCC/Guia%20finan%C3%A7ament%20catal%C3%A0.pdf>]
40. **Font Vivanco, D.**, Costa, O., 2008. Les comunitats epistèmiques en el procés de formació de polítiques ambientals. El cas del canvi climàtic a Espanya (The epistemic communities in the environmental policy making process. The case of climate change in Spain). Environmental

Sciences Degree thesis. Universitat Autònoma de Barcelona.  
[[http://ddd.uab.cat/pub/trerecpro/2008/hdl\\_2072\\_12569/PFC+David+Font.pdf](http://ddd.uab.cat/pub/trerecpro/2008/hdl_2072_12569/PFC+David+Font.pdf)]

## MEDIA

1. My winning proposal: A Marie Curie hole in one. Research Professional 31/08/2017.
2. Terugstuiter-effect (Rebound effect). Mare, Leids Universitair Weekblad 02/06/2016.  
[<http://www.mareonline.nl/archive/2016/06/02/rebound-vaccinatieziekte>]
3. Rebound-effect kan milieuwinst van transport tenietdoen (The rebound effect can offset the environmental benefits of transport). Down to Earth Magazine 23/05/2016  
[<https://downtoearthmagazine.nl/rebound-effect-milieuwinst-transport-tenietdoen>]
4. The paradox of eco-innovations. Leiden Science Our talents and Discoveries of 2015, 2016. Leiden Universiteit [[http://leidenscience-200.leidenuniv.nl/uploads/bestanden/David\\_Font\\_Vivianco.pdf](http://leidenscience-200.leidenuniv.nl/uploads/bestanden/David_Font_Vivianco.pdf)]
5. Milieuwinst in transportsector valt vaak tegen (Environmental benefits in the transport sector often disappoints). Universiteit Leiden Nieuws 23/02/2016  
[<https://www.universiteitleiden.nl/nieuws/2016/02/milieuwinst-in-transportsector-valt-vaak-tegen>]
6. What is the role of innovation in fostering sustainable mobility?, 2014. CommentVisions  
[<http://www.commentvisions.com/discussion/9327/what-is-the-role-of-innovation-in-fostering-sustainable-mobility-#comment18475>]
7. Font Vivanco, D., Puig, I., 2012. La dimensió econòmica de la prevenció de residus a Catalunya. Punt Ambiental 8, abril-setembre 2012.  
[<http://www.coamb.cat/puntambiental/opinions.php?notid=41>]

## ATTENDANCE TO SCIENTIFIC EVENTS

### Oral presentations at scientific conferences

1. “Capturing policy-induced rebound: A technology-rich life cycle general equilibrium approach”. 10th International Conference of the International Society for Industrial Ecology. Tsinghua University, Beijing (China). July 2019.
2. “The role of services and capital in footprint modelling”. 10th International Conference of the International Society for Industrial Ecology. Tsinghua University, Beijing (China). July 2019.
3. “Unravelling the nexus: exploring the pathways to combined resource use”. 9th International Conference of the International Society for Industrial Ecology. University of Illinois at Chicago, Chicago (USA). June 2017.
4. “A global picture of resource nexus issues”. 9th International Conference of the International Society for Industrial Ecology. University of Illinois at Chicago, Chicago (USA). June 2017.

5. “The relativity of eco-innovation. Environmental rebound effects from past transport innovations in Europe”. 8th International Conference of the International Society for Industrial Ecology. University of Surrey, Guildford (United Kingdom). July 2015.
6. “How to deal with the environmental rebound effect? A policy-oriented approach”. 8th International Conference of the International Society for Industrial Ecology. University of Surrey, Guildford (United Kingdom). July 2015.
7. “The relativity of eco-innovation. The income rebound effect from new (electric) vehicle propulsion technologies”. 20<sup>th</sup> International Sustainable Development Research Conference (ISDRC), NTNU – Trondheim University, Trondheim (Norway). June 2014.
8. “The rebound effect through industrial ecology’s eyes. A review of LCA-based studies and proposal of a common framework”. 20<sup>th</sup> International Sustainable Development Research Conference (ISDRC), NTNU – Trondheim University, Trondheim (Norway). June 2014.
9. “Using LCA-based decomposition analysis for the multi-dimensional environmental assessment of innovation”. 7th International Conference of the International Society for Industrial Ecology, University of Ulsan, Ulsan (South Korea). June 2013.

#### **Poster presentations at scientific conferences**

10. “Interactive Visualization and Industrial Ecology: Applications, Challenges, and Opportunities”. 10th International Conference of the International Society for Industrial Ecology. Tsinghua University, Beijing (China). July 2019.
11. “Scarcity-weighted global land and metal footprints”. Gordon Research Conference on Industrial Ecology. Les Diablerets (Switzerland). May 2018.
12. “Do methodological choices in environmental modelling bias rebound effects? A case study on electric cars”. Gordon Research Conference on Industrial Ecology. Stowe VT (USA). June 2016.

#### **Selected oral presentations at workshops and seminars**

13. “The global resource nexus and policy-induced rebound effects”, Department of Engineering, University of Cambridge (UK), September 2018 (invited).
14. “Rebound mitigation – Environmental policy making in the context of rebound effects”. Centre for the Understanding of Sustainable Prosperity (CUSP), University of Surrey, Guildford (UK). July 2018 (invited).
15. “The environmental rebound effect: new insights into the resource efficiency paradox”. Rebound effect in the context of policy design. Joint Research Centre, Ispra (Italy). July 2017 (invited).
16. “The environmental rebound effect: new insights into the resource efficiency paradox”. UCL ISR seminar, University College London, London (UK). June 2017 (invited).

17. “Unravelling the nexus: Exploring the pathways to combined resource use”. UNiLAB-Water Assessment of Low-carbon Energy Transition (WALE), First lab meeting. Tsinghua University, Beijing (China). February 2017 (invited).
18. “A global picture of resource nexus issues”. Yale CiE Lunchtime Series Talks. Yale University, New Haven CT (USA). February 2017 (invited).
19. “The rebound effect through industrial ecology’s eyes: The case of transport eco-innovation”. Yale CiE Lunchtime Series Talks. Yale University, New Haven CT (USA). April 2016 (invited).
20. “The remarkable environmental rebound effect of electric cars: A microeconomic approach”. This week’s discoveries seminar. Leiden University, Leiden (The Netherlands). October 2014 (invited).
21. “Environmental rebound effect from transport innovation and implications for climate policy”. First Stakeholder Workshop of the Carbon-CAP project, University of Cambridge, Cambridge (United Kingdom). October 2014 (invited).
22. “WP6: Deliverables, results and further work”. Environmental Macro Indicators of Innovation (EMInInn) workshop. European Liaison Office of the German Research Organisations, Brussels (Belgium). February 2014.
23. “Diffusion of transport innovations and their environmental impacts”. Environmental Macro Indicators of Innovation (EMInInn) workshop. European Liaison Office of the German Research Organisations, Brussels (Belgium). May 2013.
24. “Potential issues in the EMInInn case studies an examples from WP6”. Environmental Macro Indicators of Innovation (EMInInn) internal workshop on analytical case studies. European Liaison Office of the German Research Organisations, Brussels (Belgium). January 2013.
25. “Case study on the proposed framework for the ex-post analysis of innovation”. Environmental Macro Indicators of Innovation (EMInInn) workshop. Netherlands house for Education and Research (Neth-ER), Brussels (Belgium). September 2012.
26. “Trends in environmental performance and eco-innovation in the transport sector in Europe”. Environmental Macro Indicators of Innovation (EMInInn) expert workshop. European Liaison Office of the German Research Organisations, Brussels (Belgium). June 2012.

## PROJECTS

*Type: Research (R), Technical (T) / Role: project leader (PL), principal investigator (PI), co-investigator (CI)*

### **Industrial ecology**

2017–2019. Effective environmental policies in Europe in the context of rebound effects (EFFECT).  
European Commission, Marie Skłodowska-Curie Action Project, grant agreement no 702869.  
(R/PL, PI)



### **Innovation**

2012–2015. Environmental Macro Indicators of Innovation (EMInInn). EU's Seventh Framework Programme for Research (FP7) (grant agreement no. 283002). (R/CI)

### **Waste management (consultancy projects, selected)**

2011. Study on food waste prevention. Ajuntament de Cornellà de Llobregat. (T/PI)

2011. Diagnosis and proposals for waste prevention instruments on non-packaging paper waste in Catalunya. Agència de Residus de Catalunya. (T/PI)

2010. Local waste prevention plan. Ajuntament de Cornellà de Llobregat. (T/PI)

2010. Study on waste management models for insular areas. Ministerio de Medio Ambiente, Rural y Marino. (T/CI)

2010. Guide for the elaboration of environmentalization plans for the Ministries of the Generalitat de Catalunya". Agència de Residus de Catalunya. (T/PI)  
([http://www20.gencat.cat/docs/arc/Home/LAgencia/Publicacions/Altres%20publicacions/GUIA%20FINAL\\_1307.pdf](http://www20.gencat.cat/docs/arc/Home/LAgencia/Publicacions/Altres%20publicacions/GUIA%20FINAL_1307.pdf))

2009. Viability study for the implementation of door-to-door selective collection and complementary systems. Ajuntament de Vilafranca del Penedès. (T/PI)

2009. Environmental Action Plan for three working centres of the Departament de Governació i Administracions Públiques". Departament de Governació i Administracions Públiques i Agència de Residus de Catalunya. (T/PI)

### **Environmental economic policy (consultancy projects, selected)**

2011. Study on the implementation of a pay-as-you-throw waste charge scheme. Ajuntament d'Arenys de Mar. (T/CI)

2010. Action proposals for the Catalan administration for promoting the stimulation of the financial system towards climate change mitigation. Oficina Catalana de Canvi Climàtic. (T/PI)

2010. Pay-as-you-throw waste charge scheme on commercial waste. Ajuntament de Cornellà de Llobregat. (T/PI)

## **TEACHING**

### **Accreditations**

**2018** Fellow of the Higher Education Academy (HEA), fellowship reference number PR146112.

David Font Vivanco, Ph.D.

### **Courses**

- 2015-2016 Analytical Methodologies and Tools (6 ECTS). Course coordinator and lecturer Master Industrial Ecology, Leiden University/TU Delft (The Netherlands). Evaluation: 9/10.
- 2016-2017 Industrial Ecology (Life Cycle Assessment). Master of Environmental Science. Lecturer. School of Forestry and Environmental Studies, Yale University, New Haven CT (USA).
- 2014-2015 Design of European Research. Minor Sustainable Development. Assistant supervisor. Leiden University. Leiden (The Netherlands). Evaluation: 4.5/5.

### **Guest lectures**

- Input-output modelling and hybrid LCA. Advanced LCA - Consequential and IO-based life cycle sustainability assessment. Aalborg University, Aalborg (Denmark), May 2019.
- The environmental rebound effect: new insights into the resource efficiency paradox. Master Sustainable Resources. Introduction to Resource Economics and Policy, University College London, London (UK), October 2017.
- Advanced Input-Output Analysis. Master Industrial Ecology, Leiden University/TU Delft (The Netherlands). October 2015.
- Fundamentals of Systems, Data, Models and Computational Thinking. Master Industrial Ecology, Leiden University/TU Delft (The Netherlands). October 2014, 2015.
- Sustainable transport: from innovations to transitions. Minor Sustainable Development, Leiden University. Leiden (The Netherlands). October 2013, 2014, 2015.
- Introductory course on municipal and industrial waste management (coordinator). Environmental Scientists Association of Catalonia and Catalan Waste Agency. Barcelona (Spain). October 2011.
- Environmental best practices at the public administration. Ministry of Governance. Generalitat de Catalunya. Barcelona (Spain). December 2010.

## **STUDENT SUPERVISION**

### **Ph.D. advisees**

- Johan Andres Vélez Henao (2017 – to date). “Identifying rebound effects in consequential LCA”. Universidad Nacional de Colombia, Campus Medellín (Colombia).

### **Graduate independent studies**

David Font Vivanco, Ph.D.

Yookyung Kim (2016-2017). “Harmonisation between USLCI and USEEIO data”. Master of Environmental Science. School of Forestry and Environmental Studies, Yale University, New Haven CT (USA)

### **GRANTS**

- 2016 Marie Skłodowska-Curie Individual Fellowship (H2020-MSCA-IF-2015). Grant agreement no 702869. Project: EFFECT – Effective environmental policies in the context of rebound effects. Hosting organisation: University College London – Institute of Sustainable Resources (UK). Supervisor: Prof. Paul Ekins. European Commission. 183,454.80€.
- 2013 Free waiver scholarship for the 7th International Conference of the International Society for Industrial Ecology. June 25th-28th, University of Ulsan, South Korea. 550 €
- 2013 Grant for participation in a scientific congress abroad (7th International Conference of the International Society for Industrial Ecology. June 25th-28th, University of Ulsan, South Korea). Leids Universiteits Fonds (LUF). 750 €

### **HONORS AND DISTINCTIONS**

- 2019 Graedel Prize – 2018 Junior Author Best Paper for the article “Unraveling the nexus: Exploring the pathways to combined resource use”. Journal of Industrial Ecology, Yale University.
- 2015 C.J. Kokprijs (Discoverer of the year), shortlist nominee (2nd place). Faculty of Science, Leiden University (The Netherlands).
- 2015 Graedel Prize – 2014 Junior Author Best Paper for the article “Using LCA-based Decomposition Analysis to Study the Multidimensional Contribution of Technological Innovation to Environmental Pressures”. Journal of Industrial Ecology, Yale University.
- 2015 CML-Publicatieprizen 2014. Best scientific publication of 2014 for the article “The rebound effect through industrial ecology’s eyes: a review of LCA-based studies”. Leiden University.
- 2012 Environmental Sciences Research Prize for the project “Building waste management core indicators through Spatial Material Flow Analysis: Net recovery and transport intensity indexes”. Environmental Scientists Association of Catalonia (COAMB) and the Catalan Environmental Sciences Association (ACCA).

### **PROFESSIONAL ACTIVITIES AND AFFILIATIONS**

#### **Editorial duties**

David Font Vivanco, Ph.D.

Guest editor: “The Rebound Effect and the Jevon’s Paradox: Beyond the Conventional Wisdom”, *Frontiers in Energy Research*. 2017 – 2018.

Journal reviewer: *Journal of Industrial Ecology* (2), *Environmental Science and Technology* (3), *Journal of Cleaner Production* (1), *Energy Efficiency* (1), *Energies*, *Energy Research & Social Science* (1), *Energy Policy* (1).

### **Other professional duties**

Conference session chair: 10th International Conference of the International Society for Industrial Ecology. Tsinghua University, Beijing (China). July 2019.

Conference abstract reviewer: 9th International Conference of the International Society for Industrial Ecology. University of Illinois at Chicago, Chicago (USA). June 2017.

### **Affiliations**

Fellow, International Society for Industrial Ecology (2012-present).

Fellow, Environmental Scientists Association of Catalonia (COAMB) (2011-2014).

Commissioner, Waste commission of the Environmental Scientists Association of Catalonia (COAMB) (2011-2012).

## **OTHER**

### **Software development**

R-based tools for industrial ecology research (<https://github.com/dfontv/Rtools>)

## **PERSONAL SKILLS AND COMPETENCES**

### **Languages**

Mother tongues: **Catalan, Spanish**

Other languages (European level\*):

	<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>
	Listening	Reading	Spoken interaction	Spoken production	
<b>English</b>	Proficient user (C1)	Proficient user (C1)	Proficient user (C1)	Proficient user (C1)	Proficient user (C1)
<b>French</b>	Basic user (A1)	Basic user (A1)	Basic user (A1)	Basic user (A1)	Basic user (A1)
<b>Dutch</b>	Basic user (A1)	Basic user (A1)	Basic user (A1)	Basic user (A1)	Basic user (A1)

\* [Common European Framework of Reference \(CEF\) level](#)

### Computer skills

Skills and competences		Level			
		Basic	Competent	Proficient	Expert
<b>Programming languages</b>	Python				
	R				
	MATLAB				
	GAMS				
<b>Databases</b>	Excel				
	Access				
	Oracle				
	SQL				
<b>Geographic Information Systems</b>	ArcGIS				
	ArcView				
	GVSIG				
	Miramón				
<b>Life Cycle Assessment</b>	SimaPro				
	Gabi				
	CMLCA				
	Brightway 2				
<b>Statistical and mathematical analysis</b>	SPSS				
	Maple				
<b>Graphic design</b>	AutoCAD 2D				
	AutoCAD 3D				
	Photoshop				