

## Patricia C. Melo

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### ACADEMIC POSITIONS AND PREVIOUS EMPLOYMENT

- 2017- **Associate Professor**, Department of Economics, Lisbon School of Economics and Management (ISEG), University of Lisbon, Lisbon, Portugal
- 2013-2017 **Senior Researcher in Applied Economics**, Social, Economic and Geographical Sciences (SEGS) group, The James Hutton Institute, Aberdeen, Scotland
- 2010-2013 **Post-Doctoral Research Associate**, Railway and Transport Strategy Centre (RTSC), Centre for Transport Studies, Imperial College London
- 2008-2009 **Research Assistant**, Centre for Transport Studies, Imperial College London
- 2003-2005 **Market Research Analyst**, Lisbon Airport, ANA-Aeroportos de Portugal

### OTHER CURRENT AFFILIATIONS

- 2017- [REM: Research in Economics and Mathematics](#)
- 2017- [UECE: Research Unit on Complexity and Economics](#)

### EDUCATION

- 2006-2010 PhD, Centre for Transport Studies, **Imperial College London**  
Title: Estimating the Effect of Agglomeration Economies on Wages: Empirical Evidence and Methodological Issues
- 2005-2006 MSc in Transport (*Distinction*), Centre for Transport Studies, **Imperial College London**  
Dissertation Title: Firm Formation and Transport Infrastructure: A Study on Portugal
- 1999-2003 BSc in Economics (*Distinction*), **Lisbon School of Economics and Management (ISEG), University of Lisbon**

### MAIN RESEARCH AREAS

Urban and Regional Economics, Spatial Economics, Transport Economics, Transport Geography, Applied Microeconometrics

### PUBLICATIONS

#### Refereed Journal Papers (35)

- J01. Mogila, Z., **Melo, P.C.**, Gaspar, J.M. 2021. Estimating labour income-based inequality of opportunity for a selection of EU-SILC countries: national and urban-rural perspectives, *Regional Science Policy & Practice* (early view)

- J02. **Melo, P.C.**, Conceição, R., Anciães, P. R., Guiomar, N., Muñoz-Rojas, J. 2021. Does road accessibility to cities support rural population growth? Evidence for Portugal between 1991 and 2011, *Journal of Regional Science* (early view)
- J03. Ramli, A.R., Abdul Kadir, J. M., Ismail, N., Othman, A. A., and **Melo, P.C.** 2021. Fuel Subsidies, Fuel Consumption, and Road Transport Emissions: A systematic review, Vol. 6(16), pp. 275-281
- J04. Knies, G., **Melo, P.C.** and Zhang, M. 2020. Neighbourhood deprivation, life satisfaction and earnings: Comparative analyses of neighbourhood effects at bespoke scales. *Urban Studies*.
- J05. **Melo, P.C.**, Sobreira, N. and Goulart, P. 2019. Estimating the long-run metro demand elasticities for Lisbon: A time-varying approach. *Transportation Research Part A: Policy and Practice* Vol. 126, pp. 360-376
- J06. Carbo, J.M., Graham, D.J., Anupriya, D. C., **Melo, P. C.** 2019. Evaluating the causal economic impacts of transport investments: evidence from the Madrid-Barcelona high-speed rail corridor. *Journal of Applied Statistics* Vol. 46(9), pp. 1714-1723
- J07. de Abreu e Silva, J. and **Melo, P.C.** 2018. Does Home-Based Telework reduce Household Total Travel? A Path Analysis using single and two worker British Households. *Journal of Transport Geography* Vol. 73, pp.148-162
- J08. de Abreu e Silva, J. and **Melo, P.C.** 2018. Home telework, travel behaviour, and land use patterns: A path analysis of British single-worker households. *Journal of Transport and Land Use* Vol.11, No 1, pp. 419-441
- J09. Colen, L., **Melo, P.C.**, Abdul-Salam, Y. Roberts, D., Mary, S., Gomez Y Paloma, S. 2018. Income elasticities for food, calories and nutrients across Africa: A meta-analysis *Food Policy* Vol.77, pp.116-132
- J10. **Melo, P.C.** and Graham, D.J. 2018. Transport-Induced Agglomeration Effects: Evidence for US Metropolitan Areas. *Regional Science, Policy and Practice* Vol. 10, pp.37-47
- J11. **Melo, P.C.**, Ge, J., Craig, T., Brewer, M., Thronicker, I. 2018. Does work-life balance affect pro-environmental behaviour? Evidence for the UK using longitudinal microdata. *Ecological Economics* Vol. 145, pp. 170-181
- J12. **Melo, P.C.** and de Abreu e Silva, J. 2017. The impact of home telework on household and intra-household commuting in Great Britain. *Transportation Research Part A: Policy and Practice* Vol. 103, pp. 1-24
- J13. de Abreu e Silva, J. and **Melo, P.C.** 2017. The effects of home-based telework on household total travel: A path analysis approach of British households. *Transportation Research Procedia* 27, pp. 832–840
- J14. Ivanova, D., Vita, R.G., Stadler, K., Steen-Olsen, K., **Melo, P.C.**, Wood, R., Hertwich, E. 2017. Mapping the carbon footprint of EU regions. *Environmental Research Letters* Vol. 12, No.5
- J15. **Melo, P.C.**, Graham, D.J., Levinson, D. and Aarabi, S. 2017. Agglomeration, Accessibility, and Productivity: Evidence for Large Metropolitan Areas in the US. *Urban Studies* Vol. 54(1), pp. 179-195
- J16. **Melo, P.C.** 2017. People, Places and Earnings Differentials in Scotland. *Regional Studies* Vol. 51(1), pp. 389-403
- J17. Mohammad, S.I., Graham, D.J, and **Melo, P.C.** 2017. The Effect of the Dubai Metro on the Value of Residential and Commercial Properties. *Journal of Transport and Land Use* Vol.10 No.1, pp. 263-290

- J18. **Melo, P.C.** 2016 Driving Down Road Transport CO<sub>2</sub> Emissions in Scotland. *International Journal of Sustainable Transportation* Vol.10(10), pp. 906-116
- J19. **Melo, P.C.**, Copus, A. and Coombes, M. 2016. Modelling Small Area At-Risk-of-Poverty Rates for the UK using the World Bank Methodology and the EU-SILC. *Applied Spatial Analysis and Policy* Vol.9(1), pp. 97-117
- J20. Copus, A., **Melo, P.C.**, Kaup, S., Tagai, G., and Artelaris, P. 2015. Regional Poverty Mapping in Europe – Challenges, Advances, Benefits and Limitations. *Local Economy* Vol.30(7), pp. 742-764
- J21. Canavan, S., Graham, D.J., **Melo, P.C.**, Anderson, R.J., Barron, A., and Cohen, J.M. 2015. The Impacts of Moving Block Signalling on Technical Efficiency: An Application of Propensity Score Matching on Urban Metro Rail Systems. *Transportation Research Record: Journal of the Transportation Research Board* No 2534, pp. 68-74
- J22. **Melo, P.C.** and Ramli, A.R. 2014. Estimating Fuel Demand Elasticities to Evaluate CO<sub>2</sub> Emissions: Panel Data Evidence for the Lisbon Metropolitan Area. *Transportation Research Part A: Policy and Practice* Vol.67, pp. 30-46
- J23. **Melo, P.C.**, and Graham, D.J. 2014. Testing for Labour Pooling as a Source of Agglomeration Economies: Evidence for Labour Markets in England and Wales. *Papers in Regional Science* Vol.93(1), pp. 31-52
- J24. **Melo, P.C.**, Graham, D.J., and Brage-Ardao, R. 2013. The productivity of transport infrastructure investment: A meta-analysis of empirical evidence. *Regional Science and Urban Economics* Vol.43, pp. 695-706
- J25. Mohammad, S. I., Graham, D.J., **Melo, P.C.**, Anderson, R.J. 2013. A Meta-Analysis of the Impact of Rail Projects on Land and Property Values. *Transportation Research Part A: Policy and Practice* Vol.50, pp. 158-170
- J26. Barron, A., **Melo, P.C.**, Cohen, J.M., and Anderson, R.J. 2013. Passenger-Focused Management Approach to Measurement of Train Delay Impacts. *Transportation Research Record: Journal of the Transportation Research Board* No 2351, pp. 46-53
- J27. **Melo, P.C.**, Graham, D.J., and Canavan, S. 2012. Effects of Road Investments on Productivity and Induced Travel Demand: Evidence for Urbanized Areas in the United States. *Transportation Research Record: Journal of the Transportation Research Board* No 2297, pp. 163–171
- J28. Molloy, J., **Melo, P.C.**, Graham, D.J., Majumdar, A., and Ochieng, W. 2012. The Role of Air Travel Demand Elasticities in Reducing Aviation's CO<sub>2</sub> Emissions: Evidence for European Airlines. *Transportation Research Record: Journal of the Transportation Research Board* No 2300, pp.31-41
- J29. Le Néchet, F., **Melo, P.C.**, and Graham, D.J. 2012. The Role of Transport Induced Agglomeration Effects on Firm Productivity in Mega-City regions: Evidence for Bassin Parisien. *Transportation Research Record: Journal of the Transportation Research Board* No 2307, pp. 21-30
- J30. **Melo, P.C.**, Graham, D.J., and Noland, R.B. 2012. The Effect of Labour Market Spatial Structure on Commuting in England and Wales. *Journal of Economic Geography* Vol.12(3), pp. 717-737
- J31. Graham, D.J., and **Melo, P.C.** 2011. Evidence on the Assessment of Wider Economic Impacts of High-Speed Rail for Great Britain. *Transportation Research Record: Journal of the Transportation Research Board* No, 2261 pp.15-24

- J32. **Melo, P.C.**, Harris, N.G., Graham, D.J., Anderson, R.J., Barron, A. 2011. Determinants of Delay Incident Performance of Urban Metros. *Transportation Research Record: Journal of the Transportation Research Board* No 2216, pp. 10-18
- J33. Graham, D.J., **Melo, P.C.**, Jiwattanakulpaisarn, P., and Noland, R.B. 2010. Testing for Causality between Productivity and Agglomeration Economies. *Journal of Regional Science* Vol.50(5), pp. 935-951
- J34. **Melo, P.C.**, Graham, D.J., and Noland, R.B. 2010. Impact of Transport Infrastructure on Firm Formation: Evidence from the Portuguese Municipalities. *Transportation Research Record: Journal of the Transportation Research Board* No 2163, pp. 133-143
- J35. **Melo, P.C.**, Graham, D.J., and Noland, R.B. 2009. A Meta-Analysis of Estimates of Urban Agglomeration Economies. *Regional Science and Urban Economics* Vol.39, pp. 332-342

#### Book Chapters (4)

- B01. **Melo, P.C.**, (forthcoming) Transportation and Urban Spatial Structure, In: João de Abreu e Silva, Kristina Currans, Robert Schneider and Veronique Van Acker (eds.) *Handbook on Transportation and Land Use: Human-Centered Communities in an Age of Rapid Technological Change*, Cheltenham: Edward Elgar Publishing Ltd, Chapter 4
- B02. **Melo, P.C.**, (2021) Transport infrastructure effects on economic output: the micro-economic approach. In: Vickerman, Roger (eds.) *International Encyclopedia of Transportation*. vol. 1, pp. 347-354. UK: Elsevier Ltd
- B03. **Melo, P.C.**, Graham, D.J. and Noland, R.B. (2013) A Meta-Analysis of Estimates of Urban Agglomeration Economies, In: McCann, Philip (ed) *New Developments in Spatial Economics and Economic Geography*, Cheltenham: Edward Elgar Publishing Ltd, Chapter 23
- B04. **Melo, P.C.**, Graham, D.J. and Noland, R.B. (2012) A Meta-Analysis of Estimates of Urban Agglomeration Economies, In: Mulley, Corinne (ed) *Urban Form and Transport Accessibility, Volume 3 of Classics in Transport and Environmental Valuation Series*, Cheltenham: Edward Elgar Publishing Ltd, Chapter 24

#### Published Working Papers (10)

- W01. Rocha, B.T., **Melo, P.C.**, Afonso, N. and de Abreu e Silva, J. 2021. What drives the allocation of motorways? Evidence from Portugal's fast-expanding network, Working Paper 0184-2021, REM Working Paper Series, July 2021. Available at:  
[https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM\\_WP\\_0184\\_2021.pdf](https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM_WP_0184_2021.pdf)
- W02. Rocha, B.T., **Melo, P.C.**, Afonso, N. and de Abreu e Silva, J. 2021. Motorways, urban growth, and suburbanisation: evidence from three decades of motorway construction in Portugal, Working Paper 0174-2021, REM Working Paper Series, May 2021. Available at:  
[https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM\\_WP\\_0174\\_2021.pdf](https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM_WP_0174_2021.pdf)
- W03. **Melo, P.C.**, Rego, C., Anciães, P. R., Guiomar, N. and Muñoz-Rojas, J. 2021. Does road accessibility to cities support rural population growth? Evidence for Portugal for 1991-2011, Working Paper 0165-2021, REM Working Paper Series, March 2021. Available at:  
[https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM\\_WP\\_0165\\_2021.pdf](https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM_WP_0165_2021.pdf)

- W04. Mogila, Z., **Melo, P.C.** and Gaspar, J. M. 2020. Exploring the relation between income mobility and inequality at the regional level using EU-SILC microdata, Working Paper 0134-2020, REM Working Paper Series, May 2020. Available at: [https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM\\_WP\\_0134\\_2020.pdf](https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM_WP_0134_2020.pdf)
- W05. Mogila, Z., **Melo, P.C.** and Gaspar, J. M. 2020. Measuring inequality of opportunity across EU-SILC countries: national and urban-rural perspectives, Working Paper 0135-2020, REM Working Paper Series, May 2020. Available at: [https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM\\_WP\\_0135\\_2020.pdf](https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM_WP_0135_2020.pdf)
- W06. Knies, G., **Melo, P.C.** and Zhang, M. 2020. Neighbourhood Deprivation, Life Satisfaction and Earnings: Comparative Analyses of Neighbourhood Effects at Bespoke Scales, ISER Working Paper Series 2020-01, January 2020. Available at: <https://www.iser.essex.ac.uk/research/publications/working-papers/iser/2020-01>
- W07. Pontes, J.P. and **Melo, P.C.** 2018. Does Country Size Affect the Relationship between Population Density and Labour Productivity? Theory and Evidence for Europe, Working Paper 023-2018, REM Working Paper Series, January 2018. Available at: [https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM\\_WP\\_023\\_2018.pdf](https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM_WP_023_2018.pdf)
- W08. **Melo, P.C.** and Graham, D.J. 2017. Transport-Induced Agglomeration Effects: Evidence for US Metropolitan Areas, Working Paper 006-2017, REM Working Paper Series, October 2017. Available at: [https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM\\_WP\\_006\\_2017.pdf](https://rem.rc.iseg.ulisboa.pt/wps/pdf/REM_WP_006_2017.pdf)
- W09. Gavves, E., **Melo, P.C.**, and Graham, D.J. 2013. Fuel Demand and Road Transport CO<sub>2</sub> Emissions: Evidence for the Greater Porto Region. Proceedings of the 13th World Conference on Transport Research (WCTR), Rio de Janeiro, Brazil. Available at: <http://www.wctrs.leeds.ac.uk/wp/wp-content/uploads/abstracts/rio/general/1093.pdf>
- W10. **Melo, P.C.**, and Graham, D.J. 2009. Agglomeration Economies and Labour Productivity: Evidence from Longitudinal Worker Data for GB's Travel-to-Work Areas. Discussion Paper Nr.31, Spatial Economics Research Centre (SERC), London School of Economics (LSE). Available at: <http://eprints.lse.ac.uk/33268/1/sercdp0031.pdf>

### Policy and Technical Reports (16)

- R01. Report [Deliverable 5.3: Deliverable 5.3: Location and context - analysis of spatial inequalities at different geographical scales](#). EU H2020 RELOCAL-Resituating the Local in Cohesion and Territorial Development. Grant Agreement no: 727097, March 2019.
- R02. [Report on multi-scalar patterns of inequalities. Deliverable 5.2](#). EU H2020 RELOCAL-Resituating the Local in Cohesion and Territorial Development. Grant Agreement no: 727097, June 2018.
- R03. [Work Package 5: Case Studies in Sustainable Lifestyles and Consumption Initiatives. Deliverable 5.9: Case Study Report](#): Aberdeenshire, Scotland (with Tony Craig, Anke Fischer, Jiaqi Ge, Mark Brewer, Kathryn Colley, Gary Polhill). EU FP7 Green Lifestyles, Alternative Models & Up-scaling Regional Sustainability / GLAMURS: Grant Agreement no: 613420, October 2016.
- R04. Access to outdoor recreation by older people in Scotland (with Colley, K., Currie, M., Hopkins, J.). Report for Rural Communities Research, Rural and Environment Science and Analytical Services (RESAS) Division, The Scottish Government, March 2016.  
<http://www.gov.scot/Resource/0050/00500263.pdf>

- R05. [Regional employment growth in Scotland: 2001-2011](#) (with Vellinga, N.). The James Hutton Institute, March 2015.
- R06. [Income Elasticities of Food Demand in Africa: A Meta-Analysis](#) (with Yakubu Abdul-Salam, Deborah Roberts, Alana Gilbert, Robin Matthews, Liesbeth Colen, Sebastien Mary, Sergio Gomez Y Paloma). Joint Research Centre (JRC), Institute for Prospective Technological Studies. JRC98812, 2015.
- R07. Implementation of Poverty Mapping (with Andrew Copus). Working Paper 5 of EU FP7 ESPON project TiPSE The Territorial Dimension of Poverty and social exclusion in Europe, The James Hutton Institute, April 2014 [[Annex 3 Poverty Mapping Methodology](#)]
- R08. Recalibrating the Capacity Charge for CP5 (2013) Report for Network Rail
- R09. [Measuring the Impact of High-Speed Rail on Economic Performance: Evidence for the Madrid-Barcelona Corridor](#) (with Graham, D.J. and Brage-Ardao, R.). ESRC Grant: Transport Investments and Spatial Economic Performance, Grant reference: ES/J007382/1.
- R10. Investing in Punctuality. Case study for the International Suburban Railway Benchmarking Group (ISBeRG), Railway and Transport Strategy Centre (RTSC), 2011
- R11. Review of Appraisal Methodologies of the External Effects of Urban Rail Projects. Railway and Transport Strategy Centre (RTSC), 2011
- R12. Nova Phase 12: Train Service Reliability Case Study, Railway and Transport Strategy Centre (RTSC), 2010
- R13. Graham, D.J. and Melo, P.C. [Advice on the Assessment of Wider Economic Impacts: A Report for HS2](#). Department for Transport, London, 2010.
- R14. Graham, D.J. and Melo, P.C. Validation of the National Transport Model using Employment surveys: Phase 2. Part 2: Analysis of commuting data from the Census and NTM. Department for Transport, London, 2010
- R15. Graham, D.J., Melo, P.C. and Crotte, A. Validation of the National Transport Model using Employment Surveys: Phase 2. Part 1: Analysis of the Internal Consistency of the ASHE Data Department for Transport, London, 2009
- R16. Graham, D.J. and Melo, P.C. Validation of the National Transport Model using Employment Surveys: Phase 1. Department for Transport, London, 2008

### Writing for General and Professional Readership (17)

- G01. Melo, P.C. with Bruno T. Rocha, *Trinta anos de investimento em autoestradas não tornaram o país menos desigual. A ferrovia deve fazer melhor*. 13<sup>th</sup> May 2021, Jornal Público. Available at: <https://www.publico.pt/2021/05/13/opiniao/opiniao/trinta-anos-investimento-autoestradas-nao-tornaram-pais-menos-desigual-ferrovia-melhor-1962231>
- G02. Melo, P.C. *Nós, a cidade e a mobilidade*. 16<sup>th</sup> March 2021, Jornal Público. Available at: <https://www.publico.pt/2021/03/16/opiniao/opiniao/cidade-mobilidade-1954639>
- G03. Melo, P.C. (2020), "A mobilidade sustentável do futuro implica ir além da transição energética no setor dos transportes", *Cadernos de Economia, Ed. Ordem dos Economistas, No. 132, Jul/Set*, 65-66
- G04. Melo, P.C. *2020, o ano da reconquista do espaço público urbano*. 4<sup>th</sup> August 2020, Jornal Público. Available at: <https://www.publico.pt/2020/08/04/opiniao/opiniao/2020-ano-reconquista-espaco-publico-urbano-1926796>

- G05. Melo, P.C. *O que a covid-19 nos ensinou acerca da má gestão do espaço público nas cidades e como fazer melhor*. 29<sup>th</sup> May 2020, Jornal Público. Available at: <https://www.publico.pt/2020/05/29/opiniao/opiniao/covid19-ensinou-acerca-ma-gestao-espaco-publico-cidades-melhor-1918361>
- G06. Melo, P.C. *No ano de Lisboa Capital Verde Europeia, o estacionamento também precisa de “Escolher Evoluir”*. 26<sup>th</sup> Jan. 2020, Jornal Público. Available at: <https://www.publico.pt/2020/01/26/local/opiniao/ano-lisboa-capital-verde-europeia-estacionamento-tambem-precisa-escolher-evoluir-1901600>
- G07. Melo, P.C. *Para quando uma abordagem estratégica na gestão do estacionamento na via pública em Lisboa?* 23<sup>rd</sup> Aug. 2019, Jornal Público. Available at: <https://www.publico.pt/2019/08/23/local/opiniao/abordagem-estrategica-gestao-estacionamento-via-publica-lisboa-1884306>
- G08. Melo, P.C. *Quando a redução das disparidades regionais não implica maior coesão interna*. 17<sup>th</sup> Dec. 2018, Jornal Público. Available at: <https://www.publico.pt/2018/12/17/economia/opiniao/reducao-disparidades-regionais-nao-implica-maior-coesao-interna-1854799>
- G09. Melo, P.C. with P. Goulart and N. Sobreira. *A reforma tarifária dos transportes públicos em Lisboa vai casar sozinha?* 17<sup>th</sup> Oct. 2018, Jornal Público. Available at: <https://www.publico.pt/2018/10/17/economia/opiniao/a-reforma-tarifaria-dos-transportes-publicos-em-lisboa-vai-casar-sozinha-1847584>
- G10. Melo, P.C. *Coesão e competitividade territorial: oportunidade ou conflito?* 4<sup>th</sup> June 2018, Jornal Público. Available at: <https://www.publico.pt/2018/06/04/sociedade/opiniao/coesao-e-competitividade-territorial-oportunidade-ou-conflito-1833072>
- G11. Melo, P.C. *Onde crescemos e vivemos ainda determina o nosso estatuto económico e social?* 20<sup>th</sup> Nov. 2017, Jornal Público. Available at: <https://www.publico.pt/2017/11/20/sociedade/opiniao/onde-crescemos-e-vivemos-ainda-determina-o-nosso-estatuto-economico-e-social-1793119>
- G12. Melo, P.C. *Que estrada leva a um desenvolvimento regional mais equilibrado?*, 14<sup>th</sup> Aug. 2017, Jornal Público. Available at: <https://www.publico.pt/2017/08/14/economia/noticia/ha-que-fazer-a-estrada-para-um-desenvolvimento-regional-mais-equilibrado-1782149>
- G13. Melo, P.C. and Atterton, J. *Informing rural policy in Scotland*, 19<sup>th</sup> October 2016, SEGS Blog. Available at: <http://www.hutton.ac.uk/blogs/informing-rural-policy-scotland>
- G14. Melo, P.C. *While we live in a globalised world, the concentration of activity in cities continues to drive economic growth*, 10<sup>th</sup> March 2016, LSE USAPP Blog. Available at: <http://bit.ly/1UVBeOx>
- G15. Melo, P. C. *Commuting patterns in rural Scotland*, 17<sup>th</sup> November 2015, SEGS Blog. Available at: <http://www.hutton.ac.uk/blog/segs/commuting-rural-Scotland>
- G16. Melo, P. C. *Lost in Space? Travel-to-Work Areas, City-Regions, and Strategic Development Planning Authorities*, 16<sup>th</sup> July 2015, SEGS Blog. Available at: <http://www.hutton.ac.uk/blog/segs/lost-in-space>
- G17. Melo, P. C. *How important are regional income disparities in Scotland?*, 23<sup>rd</sup> October 2014, SEGS Blog. Available at: <http://www.hutton.ac.uk/blogs/segs/how-important-are-regional-income-disparities-scotland>

## RESEARCH GRANTS AWARDED & PROJECT COORDINATION

- 2022-2025 TASSEL - Growth or Relocation? Transport Accessibility and Economic Activity Location (PTDC/GES-GCE/4046/2021), **Principal Investigator, € 240.892**. Funded by FCT-Fundação para a Ciência e a Tecnologia, Portugal
- 2022-2025 REMOBIL - Rethinking Mobility, Location Patterns and Urban Form after the COVID19 Pandemic. The Effects of Telework and E-shopping, **WP Leader (Total: € 245,592; UECE: € 48,210)** Funded by FCT-Fundação para a Ciência e a Tecnologia, Portugal
- 2021-2024 [MASTI - Mobility as a Service and Socio-Territorial Inequalities](#), **WP Leader (Total: € 244,374; UECE: € 41,592)**. Funded by FCT-Fundação para a Ciência e a Tecnologia, Portugal
- 2018-2022 [TiTuSS - Transport Infrastructure and Urban Spatial Structure: Economic, Social and Environmental Effects](#) (PTDC/EGE-ECO/28805/2017), **Principal Investigator, € 229,539**. Funded by FCT-Fundação para a Ciência e a Tecnologia, Portugal
- 2018-2020 [Investigating People-Place Effects in the UK using Linked Longitudinal Survey and Administrative Data](#), **Co-Principal Investigator, £ 188,407**. Funded by Nuffield Foundation, UK
- 2017-2020 *RELOCAL - Resituating the Local in Cohesion and Territorial Development*, EU H2020, European Commission, **Principal Investigator** for ISEG contribution, **€ 99,000**
- 2016-2017 *RELOCAL - Resituating the Local in Cohesion and Territorial Development*, EU H2020, European Commission, **Principal Investigator** for Hutton contribution, **€ 305,000**
- 2016-2017 *WP3.4 Communities and Wellbeing*, Scottish Government Rural Affairs and Environment Strategic Research (RESAS) Strategic Research Programme 2016/21, **Work Package Coordinator, £ 1,268,984** (2016/21)
- 2016-2017 *RD3.4.2 - Place-Based Policy and its Implications for Policy and Service Delivery*, Scottish Government Rural Affairs and Environment Strategic Research (RESAS) Strategic Research Programme 2016/21, **Co-Principal Investigator, £ 292,199** (2016/21)
- 2014-2017 Substitute member, COST Action TU1305 Social Network and Travel Behaviour
- 2014-2016 *WP8.1 - The Relationship Between Economic Performance and Social Outcomes in Rural Communities*, Scottish Government Rural Affairs and Environment Strategic Research (RESAS) Strategic Research Programme 2011/16, **Principal Investigator** during 2014-2016, **£ 129,202** (2014/16)
- 2015 NESTRANS and TACTRAN Sustainable Travel Grants Scheme, **Principal Investigator**. Funding obtained for *Hutton e-bike pool pilot scheme* and new bicycle parking shelter, **£ 3,260**
- 2015 *Home-Based Telework, Residential Location and Intra-Household Dynamics*, Short Term Scientific Mission (Nov.-Dec. 2015), COST Action TU1305, European Commission, **Principal Investigator, € 1,350**
- 2014-2015 *Income Elasticities of Food Demand in Africa: A Meta-Analysis*, European Commission Joint Research Centre, **Co-Principal Investigator, € 23,751**
- 2012-2013 *Understanding Cost Efficiency using Econometric Benchmarking*, London Underground, **Researcher Co-I**. I wrote the proposal, **£ 100,000**
- 2011-2012 *Transport Investments and Spatial Economic Performance (ES/J007382/1)*, UK Economic and Social Research Council (ESRC), **Named researcher, £ 217,167**



- 2010 *Review of Appraisal Methodologies of the External Effects of Urban Rail Projects*, Metro de Madrid, **Researcher Co-I, £ 10,000**
- 2009 *Assessment of the Wider Economic Benefits from Agglomeration Externalities in the Context of the High Speed Two (HS2) rail connection*, UK Department for Transport (DfT), **Named researcher, £ 20,000**
- 2007-2009 *Validation of the Commuting Patterns Produced by the National Transport Model (NTM) Against Observed Data on Commuting Patterns from Official Surveys*, UK Department for Transport (DfT), **Named researcher, £ 106,000**

#### **TALKS AT NATIONAL & INTERNATIONAL CONFERENCES, WORKSHOPS, SEMINARS**

1. Teleworking, residential location, and mobility patterns in pre- & post-covid19 spatial economies, Invited talk, RSPP Workshop on Pandemics, Location and Mobility, Ponta Delgada, Azores, 2 Nov. 2021.
2. Transportation and the spatial economy: old questions, new(er) methods, Keynote speech, 28th APDR Congress, 16 Sept. 2021, Vila Real.
3. Transport investment, economic performance and regional development, 2nd ERSA-REGIO Invited Academic Lecture, 20 June 2019.
4. The impact of motorway expansion on urban growth patterns: the case of Portugal between 1991 and 2011, 59<sup>th</sup> European Regional Science Association (ERSA) Annual Conference, Lyon, France, 27-30 Aug. 2019
5. Spatial Disparities in Population Growth Across Rural Areas in Portugal between 1991 and 2011, 59<sup>th</sup> European Regional Science Association (ERSA) Annual Conference, Lyon, France, 27-30 Aug. 2019
6. The impact of motorway expansion on urban growth patterns: the case of Portugal between 1991 and 2011, 26th APDR Congress, July 4-5, 2019, Aveiro, Portugal
7. Spatial Disparities in Population Growth Across Rural Areas in Portugal between 1991 and 2011, Regional Studies Association (RSA) Annual Conference, University of Santiago De Compostela, Spain, 4-7 June 2019
8. Spatial disparities in rural socio-economic performance in Portugal: 1991-2011, XVI Colóquio Ibérico de Geografia, IGOT-ULisboa, Portugal, 5-7 Nov. 2018
9. Spatial disparities in socio-economic performance between 1991 and 2011: Evidence for Portugal, 58<sup>th</sup> European Regional Science Association (ERSA) annual congress, Cork, Ireland, 28-31 Aug. 2018
10. Understanding the decline in public transport demand under austerity: Evidence for Lisbon Metropolitan Area, 58<sup>th</sup> European Regional Science Association (ERSA) annual congress, Cork, Ireland, 28-31 Aug. 2018
11. Spatio-temporal income dynamics in Scotland, 57<sup>th</sup> European Regional Science Association (ERSA) annual congress, Groningen, The Netherlands, 29 Aug.-1 Sep. 2017
12. City-regions and rural-to-urban commuting patterns in Scotland, 45<sup>th</sup> Regional Science Association International - British Irish Section (RSAIBIS) annual conference, Newquay, England, 30 Aug.-1 Sep. 2016
13. City-regions and rural-to-urban commuting patterns in Scotland, 56<sup>th</sup> European Regional Science Association (ERSA) annual congress, Vienna, Austria, 23-26 Aug. 2016
14. Causality and Causal Inference for Social and Economic Interventions, Forum for Quantitative Science workshop on Socio-Economic Modelling, Edinburgh, Scotland, 31 May 2016
15. Spillover Effects of Proximity to Urban Centres: Evidence for Rural Scotland, 55<sup>th</sup> European Regional Science Association (ERSA) annual congress, Lisbon, Portugal, 25-28 Aug. 2015

16. Quantifying the Effects of Delay Incidents on the Performance of Metro Rail Systems using Stochastic Frontier Analysis, 93<sup>rd</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 12-16 Jan. 2014
17. Transport-Induced Agglomeration Effects: Evidence for US Metropolitan Areas, 54<sup>th</sup> European Regional Science Association (ERSA) annual congress, St. Petersburg, Russia, 26-29 Aug. 2014
18. People, Places, and Earnings Differentials: Microdata Evidence for Scotland, 54<sup>th</sup> European Regional Science Association (ERSA) annual congress, St. Petersburg, Russia, 26-29 Aug. 2014
19. Fuel demand and Road Transport CO<sub>2</sub> emissions: Evidence for the greater Porto region, 13<sup>th</sup> World Conference on Transport Research (WCTR), Rio de Janeiro, Brazil, 15-18 July 2013
20. Agglomeration, Accessibility, and Productivity: Evidence for Urbanized Areas in the US, 92<sup>nd</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 13-17 Jan. 2013
21. The Role of Transport Induced Agglomeration Effects on Firm Productivity in Mega-City regions: Evidence for Bassin Parisien, 91<sup>st</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 22-26 Jan. 2012
22. The role of air travel demand elasticities in reducing aviation's CO<sub>2</sub> emissions: Evidence for European airlines, 91<sup>st</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 22-26 Jan. 2012
23. The Effects of Road Investments on Productivity and Induced Travel Demand: Evidence for Urbanized Areas in the US, 91<sup>st</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 22-26 Jan. 2012
24. Determinants of Delay Incident Occurrence of Urban Metros, 90<sup>th</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 23-27 Jan. 2011
25. Evidence on the Assessment of Wider Economic Impacts of High-Speed Rail for Great Britain, 90<sup>th</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 23-27 Jan. 2011
26. Impact of transport infrastructure on firm formation: evidence from the Portuguese municipalities, 89<sup>th</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 10-14 Jan. 2010
27. Agglomeration economies and labour productivity: evidence from longitudinal worker level data for GB's Travel-to-Work Areas, 49<sup>th</sup> European Regional Science Association (ERSA) annual conference, Lodz, Poland, 25-29 Aug. 2009
28. Testing for causality between productivity and agglomeration economies, 55<sup>th</sup> Annual North American Meetings of the Regional Science Association International (NARSC), New York City, USA, 19-22 Nov. 2008
29. Agglomeration and gravity: estimating the spatial decay of labour pooling spillovers using data on commuting flows, 55<sup>th</sup> Annual North American Meetings of the Regional Science Association International (NARSC), New York City, USA, 19-22 Nov. 2008
30. Firm birth and transport infrastructure: A case study of Portugal, 87<sup>th</sup> Transportation Research Board (TRB) annual congress, Washington DC, USA, 13-17 Jan. 2008
31. Firm birth and transport infrastructure: A case study of Portugal, Regional Studies Association (RSA) Winter Regional Studies, London, 23 Nov. 2007
32. Firm birth and transport infrastructure: A case study of Portugal, 47<sup>th</sup> European Regional Science Association (ERSA) annual congress, Paris, France, 29 Aug. – 02 Sep. 2007

## MEASURES OF ESTEEM AND EXTERNAL VISIBILITY

### Invited Talks and Interviews

- 2021 90 Seconds of Science/90 Segundos de Ciência, [Radio interview about the project TiTuSS - Transport Infrastructure & Urban Spatial Structure: Economic, Social & Environmental Effects](#), (16 Nov. 2021).
- 2021 Invited talk "[Teleworking, residential location, and mobility patterns in pre- & post-covid19 spatial economies](#)", RSPP Workshop on Pandemics, Location and Mobility, Ponta Delgada, Azores, 2 Nov. 2021.
- 2021 Keynote speech "[Transportation and the spatial economy: old questions, new\(er\) methods](#)", 28th APDR Congress, 16 Sept. 2021, Vila Real.
- 2020 Invited to talk about teleworking and travel demand in times of COVID-19 pandemic in the Webinar "Coworking and Covid-19 emergency". [Link to webinar](#) (20<sup>th</sup> June 2020).
- 2019 Invited ERSA-REGIO Academic Lecture at DG REGIO, Brussels, Belgium. Presentation title: "[Transport investment, economic performance and regional development](#)" (20<sup>th</sup> June 2019). [Web streaming link to talk](#).
- 2018 Invited to give a seminar at Center for Advanced Studies in Management and Economics (CEFAGE), University of Évora, Portugal. Presentation title: "Spillover Effects of Proximity to Urban Centres: Evidence for Rural Scotland" (26<sup>th</sup> January)
- 2017-2020 Invited expert member of the international scientific advisory group (SAG) for Research Council of Norway funded project: IMPACT: Impacts of transport infrastructure investments on urban- and regional development. <https://www.forskningsradet.no/prosjektbanken/#!/project/267697/en>
- 2016 Invited as speaker to a seminar on "Regional Well-Being Indicators" organized by DG Employment, Social Affairs & Inclusion of the European Commission. Presentation title: "Territorial Dimensions of Poverty and Social Exclusion in Europe" (19<sup>th</sup> Oct., Brussels, Belgium). The presentation is available from the following link:  
<http://ec.europa.eu/social/main.jsp?langId=en&catId=1049&newsId=2659&furtherNews=yes>
- 2016 Live interview on BBC Radio Scotland's Good Morning Scotland about commuting patterns following the announcement of a Bank of Scotland study on the most affordable commuter towns in Scotland (26<sup>th</sup> Sep.) The interview can be listened to at <http://www.bbc.co.uk/programmes/b07vwzby>, from 2h 44m 24s into the programme.
- 2016 Invited as speaker to OECD workshop on "Making Inclusive Growth Happen in Cities and Regions" organised by the OECD Regional Development Policy Division. Presentation title: "Agglomeration, Economic Growth, and Socio-Spatial Inequalities" (20<sup>th</sup> April, OECD Headquarters, Paris, France)
- 2016 Invited to give a presentation at the Management Committee meeting of the COST Action TU1305 Social Networks and Travel Behaviour. Presentation title: "Home-based Telework, Residential Location and Intra-Household Dynamics" (19<sup>th</sup> May, Bucharest, Romania)
- 2015 Presentation to Directorate-General for International Cooperation and Development, European Commission (EU), Brussels, Belgium. Presentation title: "A Meta-Analysis of the Impacts of Household Incomes on Food Demand in Africa" (22<sup>nd</sup> May)
- 2014 Invited to give a seminar at the Department of Economics, University of Aberdeen, Scotland. Presentation title: "People, Places and Earnings Differentials: Microdata Evidence for Scotland" (26<sup>th</sup> June)

- 2014 Invited to give a seminar at the Centre for Transport Research (CTR), University of Aberdeen, Scotland. Presentation title: "Modelling Travel Mode Choice in Rural and Urban Scotland" (12<sup>th</sup> February)
- 2014 Invited to give a seminar at the Spatial-Environmental Governance for Sustainability Research Centre (UMSERGE), University of Malaya, Kuala Lumpur, Malaysia. Presentation title: "Modelling Travel Mode Choice in Rural and Urban Scotland" (20<sup>th</sup> January)
- 2009 Invited to give a seminar at the Institute for Transport Planning and Systems, ETH-Zurich, Switzerland. Presentation title: "Evidence on the Linkages between Productivity, Agglomeration Economies, and Transport" (7<sup>th</sup> May)
- 2009 Invited to give a seminar at the SERC/LSE Junior Seminars in Spatial Economics at the London School of Economics (LSE), London, UK. Presentation title: "Agglomeration Economies and Spatial Wage Rates: Evidence for Great Britain's Travel-to-Work Areas" (5<sup>th</sup> March)

**Invited External Reviewer for Scientific Projects & Government/Public Sector Projects**

- 2017 Independent External Expert for COST (CO-operation in Science and Technology), EU Framework Programme Horizon 2020. Proposal: OC-2016-2-21525
- 2016 Reviewer for UK's Department for Transport "Buses and the Economy II: Task 3 Report"
- 2015 Independent External Expert for COST (CO-operation in Science and Technology), EU Framework Programme Horizon 2020. Proposal: OC-2015-2-20279
- 2014 External reviewer for the Innovational Research Incentives Scheme, Netherlands Organisation for Scientific Research (NWO)

**Membership in Scientific Societies**

- 2017- Member, APDR, the Portuguese section of Regional Science Association International (RSAI)

**Member of Editorial Team of Peer-Review Scientific Journals**

- 2015- Associate Editor for journal *Regional Studies*, *Regional Science*
- 2020- Member of the editorial board of the section "Sustainable Transportation" of the journal *Sustainability*

**Refereeing Activities in Scientific Journals (selection)**

Journal of Economic Geography, Journal of Regional Science, Journal of Urban Economics, Journal of Transport Economics and Policy, Journal of Transport Geography, Papers in Regional Science, Regional Science and Urban Economics, Urban Studies, Regional Studies, Regional Studies, Regional Science, Transportation Research Part A, Transportation Research Part B, Transportmetrica, Urban Geography, Journal of Housing and the Built Environment, Energy Efficiency, Growth and Change, Journal of Transport and Land Use, Ecological Economics

**Awards and Scholarships**

- 2020 RSPP Paper Award 2020. Awarded by Regional Science Association International for best paper published in *Regional Science Policy and Practice* with D. J. Graham.

2016	Awarded funding to participate in autumn school ‘Theory and practice of programme evaluation: evidence from regression discontinuity design based methods’, funded through the InGRID project by EU’s FP7 for Research, Technological Development and Demonstration
2015	Awarded a research grant for a Short Term Scientific Mission by COST Action TU1305, European Commission. Project title: Home-Based Telework, Residential Location and Intra-Household Dynamics (host institution: CESUR/CEris, University of Lisbon)
2010	Awarded a scholarship by the European Investment Bank, the Centre for Transport Studies at KTH in Stockholm and Jönköping University to participate in a summer school on Productivity and Financing of Regional Infrastructure
2009	Second prize of the Epainos Award for the best paper in Regional Science by a young scientist (49 <sup>th</sup> Congress of the European Regional Science Association (ERSA))
2007	Awarded a scholarship by the European Union through its Marie Curie Actions and the European Regional Science Association (ERSA) to participate in a summer school on Spatial Economics and Spatial Statistics
2006-2010	PhD scholarship, Transport for London (TfL)
2002	Merit scholarship awarded by the Portuguese Ministry of Education
2001	Erasmus programme, European Union

## RESEARCH VISITS

- Social, Economic and Geographical Sciences (SEGS), The James Hutton Institute, Scotland, July 2018
- Institute for Social and Economic Research (ISER), University of Essex, UK, August 2018

## MEMBER OF SCIENTIFIC COMMITTEES OF CONFERENCES AND WORKSHOPS

- 28th congress of APDR, the Portuguese section of the European regional Science Association (ERSA), 16-17 Sept. 2021, Vila Real, Portugal
- 23<sup>rd</sup> annual congress of INFER, the International Network for Economic Research, 8-10 Sept. 2021, Lisbon, Portugal
- RELOCAL & PLOTINA JOINT WORKSHOP ON [“WOMEN AS AGENTS OF LOCAL TRANSFORMATION”](#), ISEG, Lisbon, 22 Jan. 2020.
- RELOCAL & IMAJINE JOINT WORKSHOP ON [SPATIAL DISPARITIES IN EUROPE](#), ISEG, Lisbon, 22 Oct. 2019
- 26th congress of APDR, the Portuguese section of the European regional Science Association (ERSA), July 4-5, Aveiro, Portugal

## MEMBER OF PHD AND MSc COMMITTEES

- Inês Barros de Oliveira (MSc): “Regional ex-ante Inequality of Opportunity in Portugal”, Católica Porto Business School, July 2020
- Duco de Vos (PhD): “Information Technology and Urbanization Economies”, TU Delft, March 2020
- Nuno Miguel Azevedo Aparício (MSc): “Estimação da Função de Procura do Metro de Lisboa: Uma Abordagem dom Séries Temporais Mensais”, ISEG, Univerisdade de Lisboa, Dec. 2018
- José Francisco Rangel Preciado (PhD): “Los Sistemas Productivos Locales en Extremadura. Aportaciones a la Política de Desarrollo Industrial y Rural”, Universidad de Extremadura, July 2018

## PHD AND MSc STUDENT SUPERVISION

### PhD projects

- Valentino Salgado Cunha, (in progress), 'The economic effects of rail investment and disinvestment in Portugal', ISEG-Universidade de Lisboa (as main supervisor)
- Mauricio Silva de Carvalho, (in progress), 'Essays on the economic impact of 35 years of road investment in Portugal: Estimating the linkages between transport accessibility, agglomeration externalities and displacement effects', ISEG-Universidade de Lisboa (as main supervisor)
- Shane Canavan, (2015), 'Performance Modelling of Urban Metro Rail Systems: An Application of Frontiers, Regression, and Causal Inference Techniques', Imperial College London (completed) (as co-supervisor)
- Sara Mohammad, (2015) 'Impact of Dubai Metro on Property Values', Imperial College London (completed) (as co-supervisor)

### MSc projects

- Hugo Baptista Ferreira (in progress) 'Understanding the causes and consequences of urban sprawl in the main metropolitan areas of Portugal', ISEG-Universidade de Lisboa
- Rafael Pequito de Almeida (in progress) 'Are transport mobility costs in Portugal progressive or regressive?', ISEG-Universidade de Lisboa
- Inês Couto (in progress) 'The urban wage premium in Portugal', ISEG-Universidade de Lisboa
- António Lima (in progress) 'O PART, a Covid19 e a Mobilidade Sustentável', ISEG-Universidade de Lisboa
- Daniel Rodrigues (2021) 'Políticas Públicas e Gestão do Estacionamento: Os casos dos Municípios de Lisboa e Porto', ISEG-Universidade de Lisboa
- Gonçalo Martins (2021) 'The estimation of local employment multipliers for Portugal', ISEG-Universidade de Lisboa
- Eric Habibo (2020) 'Exploring the drivers of commuting mode choice in Lisbon's metropolitan area', ISEG-Universidade de Lisboa
- Chun (Michael) Lau (2013), 'The effects of road investments on economic output and induced travel demand: evidence for unitary authorities in England', MEng in Civil Engineering, Imperial College London (as co-supervisor)
- Benjamin Gaitskell (2013) 'Peak-load pricing of metro demand', MEng in Civil Engineering, Imperial College London (as co-supervisor)
- Thomas Godfrey (2013) 'Estimating the effects of low-cost airlines on route performance using dynamic panel data models', MEng in Civil Engineering, Imperial College London (as co-supervisor)
- Emmanouil Gavves (2012) 'Estimation of fuel demand elasticities for the Porto Greater Metropolitan Area', MSc in Transport, Imperial College London (as co-supervisor)
- Francesco Zhou (2012) 'The main determinants of metro demand: An international comparative study', MSc in Transport, Imperial College London (as co-supervisor)
- Sarah Aarabi (2011) 'The impact of road enhancement on economic productivity in US urban areas', MSc in Transport, Imperial College London (as co-supervisor)
- Marianne Faure (2011) 'An analysis of food accessibility in London' MSc in Transport, Imperial College London (as co-supervisor)
- Howard Pak (2011) 'Productivity and agglomeration in Singapore: external benefits of the MRT system', MSc in Transport, Imperial College London (as co-supervisor)

- Shane Canavan (2011) 'Transport infrastructure investment, roadway congestion, and economic performance in the United States: A causal analysis', MSc in Transport, Imperial College London (as co-supervisor)
- Sebastien Badens (2011) 'A better economic appraisal of urban transport investments? Studying the agglomeration effect in France', MSc in Transport, Imperial College London (as co-supervisor)
- Linda Neo (2011) 'Estimating the effect of parking price and congestion charge on parking demand', MSc in Transport, Imperial College London (as co-supervisor)

## **TEACHING**

- Topics of Microeconomics, PhD in Economics, ISEG/UL (2021 - )
- Economic and Business Information Analysis - BSc Management, ISEG/UL (2017- )
- Economic Policy and Business Activity - BSc Economics, BSc Management, ISEG/UL (2017- )
- Microeconomics – MSc Transport, Imperial College London (2008-2013)
- Advanced Transport Modelling - MSc Transport, Imperial College London (2010-2013)
- Transport Demand & Economics: MEng Civil Engineering, Imperial College London (2011-2012)
- Transport Systems - MEng Civil Engineering, Imperial College London (2010-2012)

## **OTHER PROFESSIONAL & COMMUNITY ACTIVITIES**

- Director of studies of the BSc in Economics at ISEG (since July 2019)
- Member of the direction of APDR, the Portuguese section of the European regional Science Association (since July 2019)
- Co-founder of cooperative <http://bicultura.org/>
- [Conversas da Bicultura - Podcast Sobre Mobilidade Sustentável, Espaço Público e Uso da Bicicleta](#)
- [Sexta da Bicultura - Ciclo De Debates e Tertúlias Sobre Mobilidade Sustentável](#)