

# Rafael H. M. Pereira

Rafael Pereira is a senior researcher (tenured) in the fields of urban analytics, spatial data science and transport studies at the Institute for Applied Economic Research (Ipea), Brazil, where he leads the Data Science team. His research looks broadly at how urban policies and technologies shape the spatial organization of cities, human mobility as well as their impacts on social and health inequalities. Some of his key contributions to the fields of urban analytics and planning involve the development of new methods and open-source computational tools to study of urban systems and transportation networks. These contributions emerge from substantive interests around social justice and sustainability issues in urban development; with particular focus on issues of inequalities in access to opportunities, and the environmental impacts of built environments and mobility patterns. He is particularly interested in the equity concerns underlying urban and transport planning policies and their effects on inequalities in access to opportunities.

## CONTACT:

Head of Data Science, Institute for Applied Economic Research (Ipea)  
Asa Sul, Brasília - DF, 70390-025, Brazil

 [rafael.pereira@ipea.gov.br](mailto:rafael.pereira@ipea.gov.br)

 [urbandemographics.org](http://urbandemographics.org)

 [Google Scholar](#)

 [github.com/rafapereirabr](https://github.com/rafapereirabr)

 [@UrbanDemog](#)

 [LinkedIn](#)

## APPOINTMENTS

- 2023 - Head of Data Science and Modeling  
Department of Data Science and Information Technology  
Ipea – Institute for Applied Economic Research
- 2017-2022 Head of Spatial Data Science  
Department of Regional, Urban and Environmental Studies and Policies  
Ipea – Institute for Applied Economic Research
- 2009- Researcher (Tenured since 2013)  
Ipea – Institute for Applied Economic Research
- 2008-2009 Research Assistant  
Ipea – Institute for Applied Economic Research
- 2006-2008 Research Assistant  
Population Studies Centre (NEPO/Unicamp)
- 2005-2006 Trainee  
Labor Prosecution Ministry (MPT), Affirmative Action Program
- 2003-2005 President  
Junior Consultancy on Social Science Research (SOCIUS)

## EDUCATION

- 2013-18 PhD in Geography and the Environment, approved with no corrections  
Oxford University, St. Edmund Hall, UK  
Thesis: Distributive justice and transportation equity: inequality in accessibility in Rio  
Advisors: Tim Schwanen and David Banister; Examiners: Bert van Wee, Nihan Akyelken
- 2006-08 Masters in Demography  
State University of Campinas (Unicamp), Brazil  
Dissertation: Socio-spatial structure of urban space and commuting patterns [PORT]  
Advisor: Daniel Hogan; Examiners: Luciana Correa do Lago, José Marcos Pinto da Cunha
- 2002-06 B.S. in Sociology  
University of Brasilia (UnB), Brazil  
Dissertation: Urban polarization and spatial mobility: school trips in the capital [PORT]  
Advisor: Brasilmar Nunes

## PUBLICATIONS

Google Scholar Citations: 8,144 | h-index: 35 | i10-index: 64 | [Profile page](#)

### Peer-reviewed Papers

53. *Under Review* Y Liao, J Gil, S Yeh, **Pereira RHM**, L Alessandretti. Socio-spatial segregation and human mobility: A review of empirical evidence. [Preprint](#)
52. *Under Review* F Wagner, ... **Pereira RHM** etc. A Causal Discovery Approach To Learn How Urban Form Shapes Sustainable Mobility Across Continents. [Preprint](#)
51. 2024 A Turbay, **Pereira RHM**, R Firmino. The equity implications of TOD in Curitiba. *Case studies in Transport Policy*. [Case Studies on Transport Policy](#)
50. 2024 A Karner, **Pereira RHM**, S Farber. Advances and pitfalls in measuring transportation equity. [Transportation](#).
49. 2024 J Oliveira, F Moraes, **Pereira RHM**. A novel route-based accessibility measure and its association with transit ridership. [Transportation Research Part A: Policy and Practice](#).
48. 2024 D Tomasiello et al. **Pereira RHM** Racial and income inequalities in access to health in Brazilian cities. [Journal of Transport & Health](#).
47. 2024 **Pereira RHM**, S Farber, D Herszenhut, M Saraiva. Ride-hailing and transit accessibility considering the trade-off between time and money. [Cities](#).
46. 2023 **Pereira RHM**, R Vieira et al. Free public transit and voter turnout. [Electoral Studies](#).

45. 2023 E Willberg, H Tenkanen, H Miller, **Pereira RHM**, T Toivonen. Measuring just accessibility within planetary boundaries. [Transport Reviews](#).
44. 2023 J Ryan, **Pereira RHM**, M Andersson. Accessibility and space-time differences in when and how different groups (choose to) travel. [Journal of Transport Geography](#).
43. 2023 D Tomasiello et al. **Pereira RHM**. A time interval metric for cumulative opportunity accessibility. [Applied Geography](#).
42. 2023 K Braga, C Loureiro, **Pereira RHM**. Evaluating the impact of public transport travel time inaccuracy and variability on socio-spatial inequalities in accessibility. [Journal of Transport Geography](#).
41. 2023 J Bazzo, **Pereira RHM**, P Andrade. Estimating public transport emissions from General Transit Feed Specification data. [Transportation Research Part D: Transport and Environment](#).
40. 2023 S Yücel, **Pereira RHM**, P Peixoto, C Camargo. Impact of network centrality and income on slowing infection spread after outbreaks. [Applied Network Science](#).
39. 2022 **Pereira RHM**, P Andrade, J Bazzo. Exploring the time geography of public transport networks with the gtfs2gps package. [Journal of Geographical Systems](#).
38. 2022 D Herszenhut, **Pereira RHM**, L Portugal, M Sousa. The impact of transit monetary costs on transport inequality. [Journal of Transport Geography](#).
37. 2022 S Yeh, ... **Pereira RHM** et al. Improving future travel demand projections: a pathway with an open science interdisciplinary approach. [Progress in Energy](#).
36. 2022 J Bazzo, K Braga, **Pereira RHM**. The impact of COVID-19 on air passenger demand and CO2 emissions in Brazil. [Energy Policy](#).
35. 2022 A Brizzi, C Whittaker, L Servo, ... **Pereira RHM**, et al. Spatial and temporal fluctuations in COVID-19 fatality rates in Brazilian hospitals. [Nature Medicine](#).
34. 2022 C Prete, T Salomon, ... **Pereira RHM** et al. SARS-CoV-2 antibody dynamics in blood donors and COVID-19 epidemiology in eight Brazilian state capitals: A serial cross-sectional study. [eLife](#).
33. 2022 L Buss, C Prete, T Salomon, ... **Pereira RHM** et al. Predicting SARS-CoV-2 Variant Spread in a Completely Seropositive Population Using Semi-Quantitative Antibody Measurements in Blood Donors. [Vaccines](#).
32. 2021 H Wu, ... **Pereira RHM**, D Levison et al. Urban access across the globe: an international comparison of different transport modes. [npj Urban Sustainability](#).
31. 2021 J Ryan, **Pereira RHM**. What are we missing when we measure accessibility? Comparing calculated and self-reported accounts among older people. [Journal of Transport Geography](#).
30. 2021 S Li, **Pereira RHM**, C Prete et al. Higher risk of death from COVID-19 in low-income and non-White populations of São Paulo, Brazil. [BMJ Global Health](#).

### *Abridged CV*

*Last time updated: May, 2024*

29. 2021 N Faria, T Mellan, ... **Pereira RHM** et al. E Sabino. Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. [Science](#).
  28. 2021 **Pereira RHM** et al. Geographic access to COVID-19 healthcare in Brazil using a balanced float catchment area approach. [Social Science & Medicine](#).
  27. 2021 **Pereira RHM**, M Saraiva, D Herszenhut, C Braga, M Conway. r5r: Rapid Realistic Routing on Multimodal Transport Networks with R<sup>5</sup> in R. [Findings](#).
  26. 2021 P Alves, L Emanuel, **Pereira RHM**. Highway concessions and road safety: Evidence from Brazil. [Research in Transportation Economics](#).
  25. 2021 A Santos, ... **Pereira RHM**, et al. E Sabino, N Faria, et al. Dataset on SARS-CoV-2 non-pharmaceutical interventions in Brazilian municipalities. [Scientific Data](#).
  24. 2021 P. Mee, O. Brady, ... **Pereira RHM**, et al. Tracking the emergence of disparities in the subnational spread of COVID-19 in Brazil using an online application for real-time data visualisation: a longitudinal analysis. [The Lancet Regional Health - Americas](#).
  23. 2021 E. Sabino, ... **Pereira RHM**, et al N Faria. Resurgence of COVID-19 in Manaus, Brazil, despite high seroprevalence. [The Lancet](#).
  21. 2021 L Buss, ... **Pereira RHM**, E Sabino, N Faria, et al. Three-quarters attack rate of SARS-CoV-2 in the Brazilian Amazon during a largely unmitigated epidemic. [Science](#).
  22. 2020 Y. Liao, J. Gil, **Pereira RHM**, et al. Disparities in travel times between car and transit: Spatiotemporal patterns in cities. [Scientific Reports](#).
  20. 2020 C Braga, L Loureiro, **Pereira RHM**. Analyzing the variability of public transit accessibility estimates using GPS data. [Transportes](#). [In Portuguese]
  19. 2020 D Candido, ... **Pereira RHM**, et al, E Sabino, N Faria. Evolution and epidemic spread of SARS-CoV-2 in Brazil. [Science](#).
  18. 2020 W Souza, ... **Pereira RHM**, et al. E Sabino, N Faria. Epidemiological and clinical characteristics of the COVID-19 epidemic in Brazil. [Nature Human Behavior](#).
  17. 2020 S Costa, ... **Pereira RHM**, et al. E Sabino. Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) seroprevalence and risk factors among oligo/asymptomatic healthcare workers: estimating the impact of community transmission. [Clinical Infectious Diseases](#).
  16. 2019 **Pereira RHM**, T Schwanen, D Banister, N Wessel. Distributional effects of transport policies on inequalities in access to opportunities in Rio de Janeiro. [Journal of Transport and Land Use](#).\*
- \* Awarded Young Researcher of the Year Award by the International Transport Forum (ITF/OECD)
15. 2019 **Pereira RHM**. Future accessibility impacts of transport policy scenarios: Equity and sensitivity to travel time thresholds for Bus Rapid Transit expansion in Rio de Janeiro. [Journal of Transport Geography](#)\*\*

\*\* Awarded the Lee Schipper Memorial Scholarship by WRI and the World Bank

14. 2019 T Sá, P Edwards, **Pereira RHM**, C Monteiro. Right to the city and human mobility transition: The case of São Paulo. [Cities](#).
13. 2018 J Mayaud, M Tran, **Pereira RHM**, R Nuttall. Future access to essential services in a growing smart city: The case of Surrey, British Columbia. [Computers, Environment and Urban Systems](#).
12. 2018 **Pereira RHM**. Transport legacy of mega-events and the redistribution of accessibility to urban destinations. [Cities](#).
11. 2017 **Pereira RHM**, T Schwanen, D Banister. Distributive justice and equity in transportation. [Transport Reviews](#).
10. 2016 T Sá, **Pereira RHM**, A Duran, C Monteiro. Socioeconomic and spatial differences in active travel in Brazil. [Revista de Saude Publica](#).
9. 2016 L Emiliano, **Pereira RHM**, F Freire. Mortality differentials according to schooling in Brazilian adults in 2010, 2010. [Cadernos de Saude Publica](#).
8. 2015 **Pereira RHM**, C Carvalho, P Souza, A Camarano Population aging, fare concessions on public transport and its effects on transport fares in São Paulo Metropolitan Area. [Revista Brasileira de Estudos de População](#). [In Portuguese]
7. 2014 **Pereira RHM**, C Carvalho Household expenditure on urban transport in Brazil, 2003 and 2009. [Revista dos Transportes Públicos](#). [In Portuguese]
6. 2014 **Pereira RHM**, P Nascimento, T Araujo. A demographic projection of engineering labor force in Brazil through 2020. [Revista Brasileira de Estudos de População](#). [In Portuguese]
5. 2012 **Pereira RHM**, et al. The use of Space Syntax in urban transport analysis: limits and potentials. Proceedings: Eighth International Space Syntax Symposium.
4. 2012 **Pereira RHM**, et al. Urban Centrality: A Simple Index. [Geographical Analysis](#).
3. 2012 C Carvalho, **Pereira RHM**. The effects of income and fare variation on the demand for bus transit services in Brazil. [Transportes](#). [In Portuguese]
2. 2010 R Ojima, E Marandola, **Pereira RHM**. The stigma of living far away from the city: Rethinking the consensus on dormitory towns. [Cadernos Metr pole](#). [In Portuguese]
1. 2007 R Ojima, R Siva, **Pereira RHM**. Defining Dormitory towns with commuting data: Sociodemographic characterization and new spatial dynamics in Brazilian Urban Agglomerations. [Cadernos IPPUR/UFRJ](#). [In Portuguese]

### Work in progress (papers)

1. **Pereira RHM** et al. Urban form and sustainable Mobility
2. **Pereira RHM**, M Saraiva. Social exclusion and insufficient access to schools
3. Y Liao, J Gil, S Yeh, **Pereira RHM**, L Alessandretti. Homophily and Mobility Constraints in Nativity Segregation Experiences
4. C Silva, B Büttner ... **Pereira RHM** et al. Understanding Proximity-centred Accessibility – a worldwide survey of planning practitioners.
5. D Tomasiello, V Nadalin, **Pereira RHM**. The impact of traffic congestion on employment accessibility levels and inequality
6. **Pereira RHM**, J Bazzo. Trends and inequalities in active transport in Brazil
7. R Barbosa, **Pereira RHM** et al. Cash transfers and social distancing during pandemics
8. D Herszenhut, **Pereira RHM**, M Bhagat-Conway, A Stewart, M Saraiva. How the trade-off between time and money shapes accessibility conditions

### Guest-edited special issues

2. *In progress* G McKenzie, A Calafiore, H Tenkanen, EK Kim, **Pereira RHM**. [Environmentally and socially sustainable mobility](#). *Computers, Environment and Urban Systems*.
1. 2023 H Tenkanen, **Pereira RHM**, E Arcaute, MC Gonzalez. [Advances in geospatial approaches to transport networks and sustainable mobility](#). *Environment and Planning B: Urban Analytics and City Science*.

### Books authored

3. *In progress* C Higgins, A Paez, D Herszenhut, **Pereira RHM**. *Advanced topics in urban accessibility: a practical guide in R*. Under contract with Routledge , CRC Press.
2. 2023 **Pereira RHM**, D Herszenhut. [Introduction to Urban Accessibility: a practical guide in R](#). Brasília: Instituto de Pesquisa Econômica Aplicada.
1. 2023 **Pereira RHM**, D Herszenhut. [Introdução à acessibilidade urbana um guia prático em R](#). Brasília: Instituto de Pesquisa Econômica Aplicada.

### Books Edited

2. 2021 **Pereira RHM**, G Boisjoly. [Social Issues in Transport Planning](#). (Vol. 8 of the Advances in Transport Policy and Planning organized by Bert van Wee). Elsevier.
1. 2011 **Pereira RHM**, B Furtado. [Urban-Regional Dynamics: Urban Network and its Interfaces](#). Ed. 1. ed. Brasília: Instituto de Pesquisa Econômica Aplicada, V.1. 490p. [In Portuguese]

## Book Chapters

13. 2021 **Pereira RHM**, A Karner. [Transportation Equity](#). In R Vickerman (Ed.), International Encyclopedia of Transportation (2021). 1 st Edition, Elsevier.
12. 2021 **Pereira RHM**, G Boisjoly. [Preface: Social issues in transport planning](#). In Pereira and Boisjoly (Editors), *Social Issues in Transport Planning* (Advances in Transport Policy and Planning Vol. 8). Elsevier.
11. 2021 L Warwar, **Pereira RHM**. [Mobilidade por aplicativo no Brasil: características e padrões de consumo](#). In V Callil & D Costanzo, *Mobilidade por aplicativo: Estudos em cidades brasileiras*. 1st edition, Cebrap.
10. 2020 **Pereira RHM**. [Transport Legacy of Mega-Events and Inequalities in Access to Opportunities in Rio de Janeiro](#), in *Evaluating the Local Impacts of the Rio Olympics*, Edited by M Neri. Routledge.
9. 2013 A Maciente, P Nascimento, **Pereira RHM**. The spatial distribution of skilled labor force in Brazil. In *Brasil em Desenvolvimento 2013 - Estado, Planejamento e Políticas Públicas*, Edited by Boueri and Costa. Ipea. V.2 p.421-440 (in Portuguese)
8. 2013 M Castello Branco, V Nadalin, **Pereira RHM** Revisiting the delimitation of metropolitan boundaries in Brazil. In *Território metropolitano, políticas municipais: por soluções conjuntas de problemas urbanos no âmbito metropolitano*, edited by Furtado, Krause and França. Ipea. V.1 p.115-154 (in Portuguese)
7. 2012 **Pereira RHM**, M Costa et al. Current Situation and Prospects of the Federal Program for Supporting Municipal Urban Management. In *Federalismo à Brasileira: questões para discussão*, edited by Linhares, Mendes and Lassance. Ipea. V.8, p.59-84 (in Portuguese)
6. 2011 **Pereira RHM**. Conceptual basis for the Brazilian urban network: a literature review (with C. Egler, Mendes and Furtado) in *Urban-Regional Dynamics: Urban Network and its Interfaces*, edited by Pereira and Furtado. Ipea. V.1 p.25-46 (in Portuguese)
5. 2011 **Pereira RHM**, M Matteo. Urban network studies and guidance for planning: public and private sectors perceptions. In *Urban-Regional Dynamics: Urban Network and its Interfaces*, edited by Pereira and Furtado. Ipea. V.1 p.47-60 (in Portuguese)
4. 2011 **Pereira RHM**, V Herrero. Commuting: a typology proposal. In *Estudos demográficos na Argentina e Brasil: resultados de cooperação entre estudantes e docentes da Unicamp e UNC*. Campinas, edited by Aidar and Pelaez. SPU/AR and CAPES/BR. V.1, p.106-127 (in Portuguese)

3. 2010 R Vasconcellos, **Pereira RHM** et al Urban mobility in Brazil. In *Infraestrutura Social e Urbana no Brasil: subsídios para uma agenda de pesquisa e formulação de políticas públicas*, edited by M Morais and M Costa. Ipea. V.2, p.549-592 (in Portuguese)
2. 2009 M Morais, **Pereira RHM**, et al. Brazilian Urban Policies and the Federal Constitution of 1988. In *A Constituição Brasileira de 1988 Revisitada: Recuperação Histórica e Desafios Atuais das Políticas Públicas nas Áreas Regional, Urbana e Ambiental*, edited by Cardoso Jr. Castro and Motta. Ipea. V.2, p.117-158 (in Portuguese)
1. 2009 M Morais, **Pereira RHM**, et al. Recent performance of federal programs for public transport and urban Mobility. In *Brasil em desenvolvimento: Estado, planejamento e políticas públicas*, edited by Cardoso Jr. Ipea. V.2, p.451-469 (in Portuguese)

### Working papers and reports

See full list on my personal website or Google Scholar

### SOFTWARE (total downloads)

- **r5r**: Rapid realistic routing on multimodal transport networks with R5 – [R package](#) (913K)
- **geobr**: Download Official Spatial Data Sets of Brazil – [R and Python packages](#) (262K)
- **gtfs2gps**: Converting Transport Data from GTFS Format to GPS-Like Records – [R package](#) (28K)
- **gtfstools**: Convenient tools to edit, manipulate and analyze GTFS transit feeds – [R package](#) (24K)
- **aopdata**: Data from the Access to Opportunities Project – [R package](#) (17K)
- **r5py**: Rapid Realistic Routing with R5 in Python – [Python package](#) (17K)
- **accessibility**: Transport Accessibility Metrics – [R package](#) (15K)
- **flightsbr**: Download flight and airport data from Brazil – [R package](#) (12K)
- **censo**r: Download Data from Brazil’s Population Census – [R package](#) (5K)
- **gtfs2emis**: Estimating public transport emissions from GTFS data – [R package](#) (4.4K)
- **uci**: Urban Centrality Index – [R package](#) (2K)
- **odbr**: Download Data from Brazil’s Origin Destination Surveys – [R package](#) (1.4K)
- **esquinado**brasil: Bot that tweets a satellite image, total population and population density estimate of a random Brazilian census tract every 15 minutes – [R bot](#) (3.4K followers)

### TEACHING

- 2024 Workshop on “Accessibility modeling with R”, at the 2024 World Symposium on Transport and Land Use Research (WSTLUR), Universidad de Los Andes, Bogota, Colombia, (scheduled for June/2024)



*Abridged CV*  
*Last time updated: May, 2024*

- 2024 Lecture and hands-on practice on “Analyzing transport accessibility equity with open source data and code”. As part of the “Land Use and Transport Interaction (LUTI)” course for graduate students in the Department of Urban and Regional Planning and Geo-information Management at the University of Twente, Netherlands (May/2024)
- 2023 [Workshop on Open Tools for Equitable and Sustainable Accessibility and Mobility Analysis](#), at the 12th International Conference on Geographic Information Science, Leeds University, UK
- 2022 Lecture on Transportation Equity at the Mobility Network Summer School: Planning More Equitable Transportation Systems, at Toronto University
- 2022 Workshop on “Introduction to urban accessibility: a practical guide with R”, delivered to over 30 public officials of the Brazilian Ministry of Cities
- 2020 Tutor for the 'Changing Infrastructures' module within the 'Global Challenges in Transport' Executive Education program at the University of Oxford.

## INVITED SPEAKER (selected)

### Invited Keynote lectures

- 2024 Keynote speaker at the annual AGILE conference, by the Association of Geographic Information Laboratories in Europe (AGILE). (scheduled for Sep/2024 in Glasgow UK)
- 2023 Keynote speaker at the workshop ‘Getting to services: Transport & accessibility’. OECD and European Commission
- 2023 Keynote speaker at 'UrbanSys2023: Transport, Smart Cities, Complexity and Urban Networks', a satellite at the Conference on Complex Systems 2023, Brazil
- 2022 Keynote Inaugural lecture, Graduate program in Transport Engineering at the Federal University of Rio de Janeiro (PET-COPPE / UFRJ), Brazil
- 2021 Keynote Inaugural lecture, Graduate program in Architecture and Urbanism at the Federal Fluminense University (UFF), Brazil
- 2020 Keynote speaker at the [34<sup>th</sup> Annual meeting of the Brazilian Association of Transportation Research and Education \(ANPET\)](#)
- 2020 Keynote speaker at the UFRGS university, Brazil, 50<sup>th</sup> Anniversary of the Graduate Program in Urban Planning
- 2018 Keynote speaker at Transmilenio S.A., 8th International Congress on Mobility and Transportation, Colombia

### Other invited presentations and seminars

- 2024 World Symposium on Transport & Land Use Research (WSTLUR). Workshop on urban accessibility modeling with R (scheduled for Jun/24)
- 2024 Federal University of Rio de Janeiro (UFRJ), Brazil, Urban Planning Department

*Abridged CV*

*Last time updated: May, 2024*

- (scheduled for Mar/24)
- 2023 University of Exeter, UK, Computer Science department
  - 2023 Inha University, South Korea, Asia Pacific School of Logistics, BK 21 Lecture series
  - 2023 Insper and MIT, International Seminar 'Climate Resiliency and Low-carbon Accessibility'.
  - 2023 University of Toronto, Canada, Mobilizing Justice, Second Annual Symposium
  - 2023 UC Berkeley, USA, City & Regional Planning
  - 2023 Ministry of Social Development (MDS), Brazil
  - 2022 [Panel discussion on Mobilizing Justice at the Nectar Conference, at Toronto University](#)
  - 2022 University of Tennessee, USA, UKT Geography & sustainability Colloquium Series
  - 2022 Federal University of ABC (UFABC), Brazil, Territorial Planning Department
  - 2022 University of Lisbon, Portugal, U-shift
  - 2022 PUC Parana (PUCPR) University, Brazil, Transport Engineering
  - 2021 MIT, USA, Senseable City Lab
  - 2021 McGill, Canada, Adapting Urban Environments for the Future
  - 2021 Center for Spatial Data Science, Chicago University
  - 2021 [Citizens Collective, Urban Inequalities seminar series, TU Delft](#)
  - 2021 [Research-to-Practice Transit Symposium, University of Florida Transportation Institute](#)
  - 2021 Mapbox, USA
  - 2021 Beyond Mapping, DigitalTransport4Africa
  - 2021 New Development Bank
  - 2021 INPE - National Institute for Space Research, Brazil
  - 2021 USP University of São Paulo, Brazil, Transport Engineering webinar
  - 2021 Transport unit for Latin America and the Caribbean, World Bank, USA
  - 2021 Spatial Analytics + Data webinar series, New Castle and Liverpool Universities
  - 2021 Instituto de Investigación y Formación en Administración Pública (IIFAP) at the University of Cordoba, Argentina
  - 2020 University of Oxford, UK, Tutor for the 'Changing Infrastructures' module within the 'Global Challenges in Transport' Executive Education program
  - 2020 [Geographic Data Science Lab, University of Liverpool](#)
  - 2020 Annual meeting of the Brazilian National Association of Mayors (FNP) - Brazil
  - 2020 UFPR – Federal University of Parana, Brazil, Simpósio de Transportes do Paraná
  - 2020 UFPB – Federal University of Paraíba, Brazil, Economics Department
  - 2020 University of Campinas, Unicamp, Brazil, Population Studies Center
  - 2019 BHTrans transport agency, Brazil, Belo Horizonte Mobility Observatory.
  - 2019 Federal University of Minas Gerais (UFMG), Brazil, Economics department - Cedeplar
  - 2019 33<sup>th</sup> Annual meeting of the Brazilian Association of Transportation Research and Education (ANPET)
  - 2019 K2, The Swedish Knowledge Centre for Public Transport, Lund - Sweden
  - 2019 Chalmers University, Gothenburg - Sweden
  - 2019 VREF, Mobilize Summit, Fortaleza - Brazil
  - 2019 Annual meeting of the International Transport Forum (ITF), Germany, Leipzig
  - 2018 University College London, UK, Socially Just Transport Doctoral Group
  - 2018 VREF PhD students and young researchers workshop, Tanzania

*Abridged CV*  
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2018	BNDES – Brazilian Development Bank
2018	World Bank and WRI, Transforming Transportation, USA
2017	FGV University, CERI Center for Regulation and Infrastructure Studies, Brazil
2016	Lund University and K2 - The Swedish Knowledge Centre for Public Transport, Sweden
2016	University College London, Centre for Advanced Spatial Analysis (CASA), UK
2016	ITDP - The Institute for Transportation and Development Policy, Brazil
2016	University College London, UK, Socially Just Transport Doctoral Group
2009	University of Campinas, Unicamp, Brazil, Population Studies Center
2008	University of Brasilia (UnB), Brazil, Sociology Department

## EXTERNAL SERVICE ACTIVITIES

2023-Present	Committee Member National Consultative Committee on Urban Mobility Brazilian Federal Government
2019-2022	Board member Transportation Geography Specialty Group (TGSG) American Association of Geographers (AAG)

## FUNDING AND RESOURCES

- 2022-2024 – Detailed administrative data on Uber Trips (travel time and cost matrices, pickups and drop-offs) for Rio Metro area in 2019. Project collaboration with Uber.
- 2020-2022 – The Access to Opportunities Project, funded by the Brazilian Ministry of Regional Development (R\$ 1,490,963, approx. U\$ 350,000).
- 2017 - Lee Schipper Memorial Scholarship of U\$8,210 conceded by the World Resources Institute (WRI) and the Volvo Research and Educational Foundations (VREF).
- 2017 - Travel Conference Grant, conceded by the Oxford University Brazilian Society.
- 2013-2017 - Capes Fellowship for PhD studies at Oxford University, UK
- 2006-2008 - Fapesp Fellowship for Master Degree at State University of Campinas (Unicamp)
- 2006-2006 - Capes visiting studentship at National University of Cordoba (UNC), Argentina
- 2003-2005 - CNPq Fellowship for undergraduate studies at University of Brasilia (UnB)

## AWARDS AND PRIZES

- 2022 – Listed among top 2% cited scientists in the world in the Stanford and Elsevier "[Updated science-wide author databases of standardized citation indicators](#)"
- 2022 - Finalist in the 2022 ITF Decarbonising Transport Award: Research category, by the International Transport Forum (ITF/OECD).
- 2021 – Listed among top 2% cited scientists in the world in the Stanford and Elsevier "[Updated science-wide author databases of standardized citation indicators](#)"

- 2020 – Listed among top 2% cited scientists in the world in the Stanford and Elsevier "[Updated science-wide author databases of standardized citation indicators](#)"
- 2020 - Honorable mention in the [2nd Annual Shiny Contest](#) for the 'Accessibility Atlas', an online app to interactively explore the results of the Access to Opportunities Project.
- 2019 - Young Researcher of the Year Award by the International Transport Forum (ITF/OECD).
- 2019 - Best thesis award by the Transportation Geography Specialty Group of the American Association of Geographers (AAG).
- 2017 - Award of best group presentation 'Using microdata to identify capability challenges of the elderly in using public transport'. Award at the European Workshop "Bridging transport equity: a real-life lab", organized by the Transportation Equity Analysis (TEA) Cost Action group, in Barcelona. Team: Rafael Pereira, Claire Papaix, Koos Franssen and Anders Wretstrand.
- 2017 - Travel award to go to the 2017 Annual Meeting of the American Association of Geographers (AAG), conceded by the AAG Transportation Geography Specialty Group.
- 2016 - Best paper award of the V Oxbridge Conference on Brazilian Studies, Oxford and Cambridge Brazilian Societies.

## EDITORIAL ACTIVITIES

### Editorial Appointments

2023-Present Editorial Advisory Board, *Journal of Transport Geography*

2021-Present Editorial Advisory Board, *Urban Findings* (Findings)

2022-Present Editorial Advisory Board, *Planejamento e Políticas Públicas*

### Guest Edited Special Issues

2023 Tenkanen, H. and Pereira, R. H. M. and Arcaute, E. and Gonzalez, M. (2023). [Advances in geospatial approaches to transport networks and sustainable mobility](#), in *Environment and Planning B: Urban Analytics and City*.

Forthcoming McKenzie, G. and Calafiore, A. and Tenkanen, H. and Kim, E. and Pereira, R. H. M. Environmentally and socially sustainable mobility, in *Computers, Environment and Urban Systems*. (open call for papers)

## ACADEMIC REVIEW ACTIVITIES

- Journal of Transport Geography (16)
- PPP – Planejamento e Políticas Públicas, Brazil (7)
- Transport Research Part A: Policy and Practice (5)
- Transport Reviews (5)
- Case Studies on Transport Policy (4)

- Transportation Research Record (3)
- Cities (3)
- Journal of Transport and Land Use (3)
- Computers, Environment and Urban Systems (2)
- Mobilities (2)
- Transport Policy (2)
- Journal of Geographical Systems (2)
- REBEP – Revista Brasileira de Estudos de População, Brazil (2)
- Ecological indicators (1)
- Environment and Planning A: Economy and Space (1)
- Environment and Planning B: Urban Analytics and City Science (1)
- Geographical Analysis (1)
- Journal of Planning Literature (1)
- Journal of Transport & Health (1)
- Sustainable Cities and Society (1)
- Transport Findings (1)
- Transportes (1)

## STUDENT SUPERVISION

### *PhD Students*

- *ongoing* - Luiza Silva, Economics, Federal University of Juiz de Fora + UC Davis US
- *ongoing* - Kauê Braga, Transportation Engineering, Federal University of Fortaleza
- 2023 - André Turbay, Urban Planning, PUC Paraná

### *Master Students*

- *ongoing* - Ruan Amaral, Transportation Engineering, Federal University of Pernambuco
- 2023 - João Lucas, Transportation Engineering, Federal University of Fortaleza
- 2021 - Daniel Herszenhut, Transportation Engineering, Federal University of Rio de Janeiro
- 2020 - Kauê Braga, Transportation Engineering, Federal University of Fortaleza

### *Undergraduate Students*

- *ongoing* - Davi Gressler, Physics and Urban Science, University of São Paulo + Exter UK

## AFFILIATIONS

- 2019- Latin American branch of the International Network for Transport and Accessibility in Low Income Communities (INTALInC LAC)
- 2017-18 Associate Postgrad, Oxford Urbanists Society
- 2016-17 Visiting PhD student, Fitzwilliam College, Cambridge University
- 2015-18 Associate Postgrad, Oxford Program for the Future of Cities

***Abridged CV***

*Last time updated: May, 2024*

- 2015- Member, American Association of Geographers (AAG)
- 2014- Member, Royal Geographical Society (RGS-IBG)
- 2010- Member, World Conference on Transport Research Society (WCTRS)
- 2009- Member, Research 'Group Morphological Dimensions of the Urbanization Process', Research Group led by Prof. Frederico Holanda (University of Brasilia)
- 2008- Member, Brazilian Association of Population Studies (ABEP)