

JOÃO PEDRO BAZZO VIEIRA

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C.V. last updated in April 2022

EDUCATION

M.Sc. in Environmental Engineering 📅 2020

Federal University of Parana

Title: "Spatiotemporal vehicle emissions inventory model: A case study in Curitiba-PR"[\[Link\]](#)[\[In portuguese\]](#)

Advisor: Prof. Marcelo Risso Errera Co-Advisor: Luiz Carlos Daemme

B.Sc. in Environmental Engineering 📅 2016

Federal University of Parana

Title: "Flow rates regionalization using RBF Neural Artificial Networks" [\[Link\]](#)[\[In portuguese\]](#)

Advisor: Prof. Ricardo Carvalho de Almeida

Exchange Program in Environmental Engineering 📅 2014

University of Waterloo

Fellowship Science Without Borders Grant

EXPERIENCE

Research Assistant

Institute for Applied Economic Research (IPEA)

Sept 2019 – Current

📍 Brasília, Brazil

- International comparison of urban buses emissions based on GTFS data [\[In progress\]](#);
- Development of R packages to process GTFS in a high spatiotemporal resolution (gtfs2gps package) and to estimates tailpipe emissions from public transportation (gtfs2emis package)[\[In progress\]](#);
- Contribution to the project "Access to Opportunity", which aims to calculate people's access to jobs, health, and education services by different transport modes for Brazil's largest cities;
- Study on the impact of COVID-19 in the air travel demand and emissions in Brazil; Trends and inequalities of urban mobility in Brazil.

Research Coordinator

Cicloiguacu Cyclist Association

Jun 2016 – Jun 2019

📍 Curitiba, Brazil

- NGO aims to increase and improve bicycle use as a mode of transportation in Curitiba
- Coordination of Curitiba's cyclist profile 2017, an initiative of Metropolitan Observatory UFRJ; Transporte Ativo and LABMOB
- Participation in vehicle counts projects, seminars about bicycle in the urban environment, spatial data analysis on cyclist injuries and deaths, with the partnership with local universities

Intern

Envex Consulting

Feb 2015 – Mai 2016

📍 Curitiba, Brazil

- Air quality, noise pollution, hydrology, and environmental impact assessment projects
- Development of R scripts to process and visualize data on air quality and noise monitoring projects

Research intern

University of Waterloo | Climatology Lab

Set – Dec 2014

Waterloo, Canada

- Research in a project entitled "The study of the relationship between ocean temperature and jet streams displacement in scenarios of climate change", with the supervision of Prof. Christopher Fletcher;
- Programming using R and Linux (Bash Shell), as part of the Science Without Borders project grant.

Intern

Public Prosecutors Office

Nov 2011 – Ago 2013

Curitiba, Brazil

- Assistance on process related to municipal solid waste management, atmospheric emissions, environment licensing, and water resources
- Development of report on composting and municipal solid waste management, in the light of 12.305/10 law
- Technical analysis on Environment Impact Studies, Solid waste management plans, and other projects related to environmental management of cities and industries
- Inspection of industrial and environmental damaged areas
- Studies involving environmental law

Junior Enterprise

Ciclus Consulting – Federal University of Parana

Mar 2010 - Mar 2013

Curitiba, Brazil

- Greenhouse gas inventory project;
- Entrepreneurship and project management training;
- Supervision of project consultants responsible for: i) Meet the project deadline and budget; ii) Follow methodology for project management.

PUBLICATIONS

Peer Reviewed Papers

- Vieira, J. P., Vieira Braga, C. K., Pereira, R. H. M. (2022). The impact of COVID-19 on air passenger demand and CO2 emissions in Brazil. Energy Policy, 164, 112906. [\[Link\]](#)

Preprints

- R. H. M. Pereira, P. R. Andrade, e J. P. B. Vieira, "Exploring the time geography of public transport networks with the gtfs2gps package". SocArXiv, 2022. doi: 10.31235/osf.io/qydr6. [\[Link\]](#)

Book Chapters, Working papers and Reports

- Pereira, H.M.R., Warwar L., Parga J., Vieira J.P.B., Braga C.K., Herszenhut D. and Saraiva M. (2021). TD 2673: Trends and inequalities of urban mobility in Brazil I: the use of public and individual transport. [\[Link\]](#) [*In portuguese*]
- Miranda, A.C. and Vieira J.P.B. (2020). The use of bicycles in the context of urban mobility. p.335 In: Urban mobility: a multidisciplinary approach. Ed. by Cristina Araújo Lima. Curitiba: UFPR. ISBN: 978-65-86233-02-5 [*In portuguese*]
- Belloto, J.C. A., Nakamori, S. and Vieira, J.P.B. (2020). Public institutions and traffic sources: practices to encourage sustainable mobility at UFPR and CELEPAR. In: Brazilian public management: innovation and network sustainability. Ed. by Villac, T. v. 1, p. 203-221 [*In portuguese*]
- Moreira, H.J.; Vieira, J.P.B.; Dittert, L.F.; Miranda, A.C.M.; Reck, Y.B.. Temporary infrastructure for active mobility: Cycle mobility solutions to adapt the streets in the fight against the pandemic. UCB & Cicloiguacu. Curitiba, 2020. [\[Link\]](#) [*In portuguese*]

Congress Articles

- Vieira, J.P.B., Errera M.R., and Daemme L.C. (2019). Air pollutants modeling using bottom-up vehicular emissions inventory. At 25th ABCM International Congress of Mechanical Engineering. [\[Link\]](#)
- Vieira, J.P.B., and Almeida, R.C. (2016). Flow regionalization using Neural Artificial Networks RBF. 1st Symposium of Numerical Methods in Engineering [*In portuguese*]

- Gasparovic, C. L. M.; Ostroski, A. ; Vieira, J. P. B. ; Errera, M. R. . Elementary Constructal Design of a carbon capture systems based on carbonation over fly ashes.. In: Constructal Law Second Law Conference 2019 CLC 2019, 2019, Porto Alegre. Proceedings of Constructal Law Second Law Conference - CLC - 2019. Porto Alegre: Unisinos Porto (Brazil), 2019. v. 1. p. 184-187
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R packages

- gtfs2gps: Converting GTFS data to GPS format. Zenodo [[Link](#)]. [[Autor](#)]
 - vein: Vehicular Emissions Inventories. Version 0.9.4. [[Link](#)]. [[Contributor](#)]
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AWARDS

- 2021 "Enjoy Science UFPR" award due to master thesis excellence

GRANTS

- 2013-2014 Exchange program at University of Waterloo (Canada), Science Without Border program
- 2017-2019 CAPES Studentship for Master Degree at Federal University of Parana (UFPR)