

Jaime Soza Parra

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My primary research interests encompass the relationship between car dependency, sustainable transportation, and multiple data sources. I have solid scientific communication skills, as demonstrated by my publication history and number of international meetings participation. My main motivation to pursue an academic career was teaching, which I still consider the backbone of successful and meaningful research.

Education	Pontificia Universidad Católica de Chile Doctor in Engineering Sciences, Industrial and Transport Engineering Area	2016 – 2020
	Pontificia Universidad Católica de Chile Civil Engineer, Diploma on Transport Engineering	2014 – 2015
	Pontificia Universidad Católica de Chile Bachelor's in Engineering Science	2010 – 2013
Additional education	DeepLearning.AI Coursera: Neural Networks and Deep Learning	2020
	Stanford University Coursera: Machine Learning	2020
	Pontificia Universidad Católica de Chile Diplomado en Big Data y Ciencia de Datos para Negocios	2019
	Massachusetts Institute of Technology Modeling and Simulation of Transportation Networks	2016
Teaching experience	TU Delft - Beijing Jiaotong University Urban Public Transportation – Lecturer	2022
	Pontificia Universidad Católica de Chile Demand Modelling – Lecturer	2019
	Pontificia Universidad Católica de Chile Network Flows – Lecturer	2018
	Pontificia Universidad Católica de Chile Coursera: Demand Modelling, Transport Systems Analysis, Traffic Engineering – Teaching assistant and lecturer	2018 – 2021
	Universidad Autónoma de Baja California Introduction to Demand Modelling – Lecturer	2017
Professional experience	TU Delft, Smart Public Transport Lab Postdoctoral researcher <i>Duties: Research the concept of car independent lifestyles. Teaching in the joint TU Delft – Beijing Jiaotong University program. MSc students' supervision.</i>	2022 – To date

Professional experience (continuation)	<p>UC Davis, 3 Revolutions Future Mobility Program 2021 Postdoctoral researcher <i>Duties: Write project grants and reports. Present results to industry sponsors and develop research lines of mutual interest.</i></p>
	<p>CEDEUS, Proyecto CALLES 2020 Postdoctoral researcher <i>Duties: Conduct interdisciplinary research with other members of the research centre. Write public policy documents (white papers)</i></p>
Research projects	<p>Smart Urban Mobility: ‘Low Car City’ 2022 Amsterdam Institute for Advances Metropolitan Solutions <i>Role: Research fellow</i></p>
	<p>The 'new normal': evaluating the impacts of the COVID-19 pandemic on mobility patterns in California using survey and passively collected data. 2021 California Senate Bill Research Grant <i>Role: Principal investigator</i></p>
	<p>Travel Demand Modeling Methodology Recommendations for the Link21 Program. 2021 Transit and Intercity Rail Capital Program Research Grant <i>Role: Researcher</i></p>
	<p>Behavioural modelling of public transport systems. 2017 – 2020 Fondo Nacional de Desarrollo Científico y Tecnológico – Fondecyt Iniciación, 11170127 <i>Role: Graduate student</i></p>
	<p>Explore whether the use of a visualization tool can encourage improvements in the urban transportation planning process in Santiago, Chile. 2016 MISTI MIT-PUC Graduate Student Seed Fund <i>Role: Graduate student</i></p>
	<p>Bringing reliability to bus operation: overcoming real life hurdles. 2015 – 2019 Fondo Nacional de Desarrollo Científico y Tecnológico – Fondecyt Regular, 1150657 <i>Role: Graduate student</i></p>
WOS Publications	<p>Headway variability in public transport: a review of metrics, determinants, effects for quality of service and control strategies. Tirachini, A., Godachevich, J., Cats, O., Muñoz, J. C., & Soza-Parra, J. <i>Transport Reviews, 42 (3), 337-361, 2022.</i></p>
	<p>Public transport reliability across preferences, modes, and space. Soza-Parra, J., Raveau, S., & Muñoz, J. C. <i>Transportation, 49(2), 621-640, 2022.</i></p>
	<p>The increase in online shopping during COVID-19: Who is responsible, will it last, and what does it mean for cities? Young, M., Soza-Parra, J., & Circella, G. <i>Regional Science Policy & Practice, 1– 17, 2022.</i></p>
	<p>Travel preferences of public transport users under uneven headways. Soza-Parra, J., Raveau, S., & Muñoz, J. C. <i>Transportation Research Part A: Policy and Practice, 147, 61-75, 2021.</i></p>

WOS Publications
(continuation)

Factors that affect the evolution of headway variability along an urban bus service.

Soza-Parra, J., Muñoz, J. C., & Raveau, S.

Transportmetrica B: Transport Dynamics, 9(1), 479-490, 2021.

A comprehensive perspective of unreliable public transport services' costs.

Muñoz, J. C., Soza-Parra, J., & Raveau, S.

Transportmetrica A: Transport Science, 16(3), 734-748, 2020.

The underlying effect of public transport reliability on users' satisfaction.

Soza-Parra, J., Raveau, S., Muñoz, J. C., & Cats, O.

Transportation Research Part A: Policy and Practice, 126, 83-93, 2019.

Lessons and evaluation of a headway control experiment in Washington, DC.

Soza-Parra, J., Cats, O., Carney, Y., & Vanderwaart, C.

Transportation research record, 2673(8), 430-438, 2019

Alleviating a subway bottleneck through a platform gate.

Muñoz, J. C., Soza-Parra, J., Didier, A., & Silva, C.

Transportation Research Part A: Policy and Practice, 116, 446-455, 2018.

SCOPUS articles

Comparing COVID-19 in the Antipodes: Insights from pandemic containment strategies on both sides of the Pacific.

Benita, F., Fuentes, L., Guzmán, L. A., Martínez, R., Muñoz, J. C., Neo, H., Rodríguez-Leiva, S., & Soza-Parra, J.

Transportation Research Interdisciplinary Perspectives, 100660, 2022

Book chapters

Changes in activity organization and travel behavior choices in the United States.

Soza-Parra, J., Circella, G., & Sperling, D.

Transportation Amid Pandemics: Practices and Policies, 2022.

White papers

La importancia de la olvidada confiabilidad en el transporte público.

Soza-Parra, J., Muñoz, J. C., & Raveau, S.

Documento para Política Pública N°14. Centro de Desarrollo Urbano Sustentable, Santiago, 2020.

Peer-review experience

Case Studies on Transport Policy

European Journal of Transport and Infrastructure Research

IET Intelligent Transport Systems

Journal of Public Transportation

Journal of Rail Transport Planning & Management

PeerJ Computer Science

Research in Transportation Economics

Transport Policy

Transportation Engineering

Transportation Letters

Transportation Research Part A: Policy and Practice

Transportation Research Part C: Emerging Technologies

Transportation Research Record

Annual Meeting of the Transportation Research Board

Chilean Conference on Transportation Engineering

Conference on Advanced Systems for Public Transport

Conferences and meetings

Who is ready to live a car-independent lifestyle? A latent class cluster analysis of attitudes towards car ownership and usage.

NECTAR, Toronto, Canada, July 2022.

A discrete-event public transportation simulation model to evaluate the impacts of social distancing and travel demand.

CCHIT, Online, October 2021.

Travel preferences of public transport users under uneven headways.

INSTR, Online, June 2021.

Confiabilidad del transporte público para distintas preferencias, modos, y lugares.

Workshop datos pasivos, Santiago, Chile, January 2020.

Travel preferences of public transport users under uneven headways.

BRT General Assembly, Washington D.C., U.S.A, January 2020.

Travel preferences of public transport users under uneven headways.

CCHIT, Santiago, Chile, October 2019.

What factors determine the variability of the level of service experienced by transit users?

CCHIT, Santiago, Chile, October 2019.

Public transport travel time reliability across modes and space.

TransitData, Paris, France, July 2019.

Interactive workshop: rapid and reliable buses.

Mobilize, Fortaleza, Brazil, June 2019.

Public transport reliability causes and effects

Transforming Transportation 19, World Bank, Washington D.C., U.S.A, January 2019

Public transport reliability causes and effects

BRT General Assembly, Washington D.C., U.S.A, January 2019.

Lessons and evaluation of a headway control experiment in Washington D.C.

TRB, Washington D.C., U.S.A, January 2019.

The underlying effect of public transport reliability over users' satisfaction.

PANAM, Medellín, Colombia, September 2018.

What factors determine the variability of the level of service experienced by transit users?

PANAM, Medellín, Colombia, September 2018.

The underlying effect of public transport reliability over users' satisfaction.

CASPT, Brisbane, Australia, July 2018.

What factors determine the variability of the level of service experienced by transit users?

CASPT, Brisbane, Australia, July 2018.

The underlying effect of public transport reliability over users' satisfaction.

IATBR, Santa Barbara, U.S.A., July 2018.

- Conferences and meetings (continuation)
- The underlying effect of public transport reliability over users' satisfaction.**
INSTR, Sydney, Australia, January 2018.
- Closing the gap between perceived and objective accessibility measures: A new approach to measuring public transport accessibility considering comfort, transfers and reliability perception.**
INSTR, Sydney, Australia, January 2018.
- The underlying effect of public transport reliability over users' satisfaction**
BRT General Assembly, Washington D.C., U.S.A, January 2018.
- Public transport travel time reliability across modes and space.**
TRB, Washington D.C., U.S.A, January 2018.
- Characterizing the differences on public transport travel time reliability between travellers and operators.**
CCHIT, La Serena, Chile, October 2017.
- What factors determine the variability of the level of service experienced by transit users?**
hEART, Haifa, Israel, September 2017.
- Characterizing the differences on public transport travel time reliability between travellers and operators.**
EWGT, Budapest, Hungary, September 2017.
- Characterizing the differences on public transport travel time reliability between travellers and operators.**
TransitData, Santiago, Chile, April 2017.
- Explore whether the use of a visualization tool can encourage improvements in the urban transportation planning process in Santiago, Chile.**
BRT General Assembly, Washington D.C., U.S.A, January 2017.
- Awards
- Winner: Lee Schipper Memorial Scholarship** 2018
World Resources Institute
- Winner: Best teaching assistant** 2017
Department of Transport Engineering and Logistics,
Pontificia Universidad Católica de Chile
- Honourable mention: Abertis Award in Infrastructure Management** 2021
Abertis Chair Chile
- Additional information
- Programming skills:** R (proficient), Python (competent), GIS (competent)
- Languages:** Spanish (native), English (C1), Dutch (A1, learning since May 2022)