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.

Professional experience

Utrecht University, Human Geography and Spatial Planning 2023 – To date
Assistant Professor in Transportation Analysis and Data Science
Duties: Research on car dependency and public transport. Teaching and supervision at the bachelor and master level. Supervision of PhD candidates.

TU Delft, Smart Public Transport Lab 2022
Postdoctoral researcher
Duties: Research the concept of car independent lifestyles. Teaching in the joint TU Delft – Beijing Jiaotong University program. MSc students' supervision.

UC Davis, 3 Revolutions Future Mobility Program 2021
Postdoctoral researcher
Duties: Write project grants and reports. Present results to industry sponsors and develop research lines of mutual interest.

CEDEUS, Proyecto CALLES 2020
Postdoctoral researcher
Duties: Conduct interdisciplinary research with other members of the research centre. Write public policy documents

Education

Pontificia Universidad Católica de Chile 2016 – 2020
Doctor in Engineering Sciences, Industrial and Transport Engineering Area

Pontificia Universidad Católica de Chile 2014 – 2015
Civil Engineer, Diploma on Transport Engineering

Pontificia Universidad Católica de Chile 2010 – 2013
Bachelor's in Engineering Science

Additional education

DeepLearning.AI 2020
Coursera: Neural Networks and Deep Learning

Stanford University 2020
Coursera: Machine Learning

Pontificia Universidad Católica de Chile 2019
Diplomado en Big Data y Ciencia de Datos para Negocios

Massachusetts Institute of Technology 2016
Modeling and Simulation of Transportation Networks

Teaching experience

Utrecht University 2023 – To date
Quantitative Methods – Course Coordinator and Lecturer

Utrecht University 2023 – To date
Mobilities, Networks, and Travel – Lecturer
Transport Geography – Lecturer
Discrete Choice Modelling Specialization – Lecturer

TU Delft - Beijing Jiaotong University 2022
Urban Public Transportation – Lecturer

Pontificia Universidad Católica de Chile 2019
Demand Modelling – Lecturer

Pontificia Universidad Católica de Chile 2018
Network Flows – Lecturer

Pontificia Universidad Católica de Chile 2018 – 2021
Coursera: Demand Modelling, Transport Systems Analysis, Traffic Engineering – Teaching assistant and lecturer

Universidad Autónoma de Baja California 2017
Introduction to Demand Modelling – Lecturer

Research projects

Urban Mobility Observatory 2023 – To date
Utrecht University, Consortium
Role: Researcher and Survey Coordinator

Smart Urban Mobility: 'Low Car City' 2022
Amsterdam Institute for Advances Metropolitan Solutions
Role: Research fellow

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
Role: Principal investigator

Travel Demand Modeling Methodology Recommendations for the Link21 Program. 2021
Transit and Intercity Rail Capital Program Research Grant
Role: Researcher

Behavioural modelling of public transport systems. 2017 – 2020
Fondo Nacional de Desarrollo Científico y Tecnológico – Fondecyt Iniciación, 11170127
Role: Graduate student

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
Role: Graduate student

Research projects (continuation)

Bringing reliability to bus operation: overcoming real life hurdles. 2015 – 2019
Fondo Nacional de Desarrollo Científico y Tecnológico – Fondecyt Regular, 1150657
Role: Graduate student

WOS Publications

The shareability potential of ride-pooling under alternative spatial demand patterns.
Soza-Parra, J., Kucharski, R., & Cats, O.
Transportmetrica A: Transport Science, 20(2), 2140022, 2024

Aerial cable cars as a transit mode: a review of technological advances, service area characteristics, and societal impacts in Latin America and the Caribbean.
Cardona-Urrea, S., Soza-Parra, J., & Ettema, D.
Transport Reviews, 1-25, 2023

The role of personal motives in determining car ownership and use: a literature review
Soza-Parra, J., & Cats, O.
Transport Reviews, 1-21, 2023

A discrete-event public transportation simulation model to evaluate travel demand management impacts on waiting times and crowding conditions.
Soza-Parra, J., Tiznado-Aitken, I., & Muñoz, J. C.
Journal of Public Transportation, 25, 100075, 2023.

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.
Transport Reviews, 42 (3), 337-361, 2022.

Public transport reliability across preferences, modes, and space.
Soza-Parra, J., Raveau, S., & Muñoz, J. C.
Transportation, 49(2), 621-640, 2022.

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.
Regional Science Policy & Practice, 1– 17, 2022.

Travel preferences of public transport users under uneven headways.
Soza-Parra, J., Raveau, S., & Muñoz, J. C.
Transportation Research Part A: Policy and Practice, 147, 61-75, 2021.

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.

WOS Publications (continuation)

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 Nº14. 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
International Association for Travel Behaviour Research
The International Choice Modelling Conference
World Society for Transport and Land Use Research

Conferences and meetings

The role of personal motives in determining car ownership and use: a literature review
Reinventing the City, Amsterdam, the Netherlands, April 2024.

An In-depth Analysis of Train User Behaviour and Choice Set Definition through a Latent Class Choice Model
ICMC, Puerto Varas, Chile, April 2024.

Conferences and meetings (continuation)

Who is ready to live a car-independent lifestyle? A latent class cluster analysis of attitudes towards car ownership and usage.
hEART, Zurich, Switzerland, July 2023.

Who is ready to live a car-independent lifestyle? A latent class cluster analysis of attitudes towards car ownership and usage.
IATBR, Santiago de Chile, December 2022.

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.

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)