



EXECUTIVE PORTFOLIO RESUME

Golan Ben-Dor, PhD

Urban Mobility Scientist & Transport Simulation Consultant

I help transport agencies evaluate major projects under uncertainty using agent-based models, real-world data and clear methodologies. My work combines technical depth with budget planning, coordination and decision-focused delivery.

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EXPERIENCE

Urban Mobility & Transport Simulation Consultant

2023 - Present

Ministry of Transport, Netivei Ayalon

- Lead methodologies, work plans, multi-million-NIS budgets and cross-agency coordination for national and metropolitan transport projects.
- Convert simulation and mobility data into clear evidence for infrastructure and policy decisions.

AI Workflow Consultant & Lecturer

2025 - Present

Corporate training and consulting

- Design and teach practical AI-enabled workflows for analysis, research, spatial SQL and technical delivery.

Transport Simulation Scientist

2016 - 2023

Geosimulation Lab, Tel Aviv University

- Built and validated MATSim models for Jerusalem and Tel Aviv; evaluated public transport, pricing and shared mobility.
- Published peer-reviewed research and presented findings internationally.

SELECTED WORK

Google Maps Continuous Analytics

Continuous mobility-data recording with automated validation, map production and planning-ready outputs.

National Cordon & Screenline Survey

National methodology and cross-agency coordination across five strategic models.

Pink Line BRT Multi-Agent Simulation

Multi-agent simulation of BRT demand, modal shift and operations with Netivei Ayalon and Replan.

Beer Sheva Validation

Independent blind reconstruction of transport-model results.

CORE EXPERTISE

MATSim / Java

Python / Pandas

Spatial SQL

ArcGIS Pro

QGIS

Agent-based modeling

AI workflows

Git

LEADERSHIP IMPACT

Multi-million NIS projects

Methodology, coordination, budgets and delivery responsibility.

Cross-agency leadership

Align public bodies, consultants, data providers and technical teams.

Decision-ready evidence

Translate models and data into clear policy and infrastructure recommendations.

FEATURED PAPER

Robust Policy Evaluation (2024)

Transportation Research Part A: congestion pricing and parking policy in Jerusalem.

SCAN THE PORTFOLIO
drbendor.com



STRATEGIC VALUE



National → Metropolitan
Methods across planning scales.



Model → Decision
Evidence translated into choices.



Transport + Data + AI
One practice from analysis to delivery.



EDUCATION

PhD - Robust Transportation Policy Evaluation

2019 - 2023

Tel Aviv University

M.Sc. Geo-informatics, Cum Laude

2014 - 2018

Agent-based evaluation of dedicated bus lanes - Tel Aviv University

B.A. Geography & Multidisciplinary Studies

2011 - 2014

Tel Aviv University

SELECTED PUBLICATIONS

2024

Simulation-based policy evaluation of monetary car driving disincentives in Jerusalem

Transportation Research Part A [DOI: 10.1016/j.tra.2024.104061](https://doi.org/10.1016/j.tra.2024.104061)

2023

PATRIC: A high performance parallel urban transport simulation framework based on traffic clustering

Simulation Modelling Practice and Theory [DOI: 10.1016/j.simpat.2023.102775](https://doi.org/10.1016/j.simpat.2023.102775)

2019

Determining an Optimal Fleet Size for a Reliable Shared Automated Vehicle Ride-Sharing Service

Procedia Computer Science [DOI: 10.1016/j.procs.2019.04.121](https://doi.org/10.1016/j.procs.2019.04.121)

2021

Population downscaling in multi-agent transportation simulations: A review and case study

Simulation Modelling Practice and Theory [DOI: 10.1016/j.simpat.2020.102233](https://doi.org/10.1016/j.simpat.2020.102233)

TEACHING & ENGAGEMENT

- Academic Lecturer in GIS at Tel Aviv University; curriculum design and technical instruction.
- Conference speaker and media contributor on transport simulation, policy and urban mobility.
- AI workflow lecturer for organizations and technical teams.

RECOGNITION

Research excellence

TAU Research Center for Cities and Urbanism.

Smart Mobility

Scholarship and innovation recognition.

13+ awards

Academic and professional excellence.

LANGUAGES

Hebrew

Native

English

Professional

WORKING STYLE

Rigorous

Transparent assumptions and reproducible methods.

Collaborative

Technical depth translated for diverse stakeholders.

Decision-focused

Analysis designed around practical next steps.

