Arsenii Afinogenov

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Portfolio: arseniimx.github.io/portfolio

Professional Summary

Transport economist and mobility analyst with 10+ years of experience improving urban transport systems across public and private sectors. Proven track record in optimizing transit networks, building financial models, and analyzing fare systems. Proficient in Python, QGIS, Excel, and spatial data tools for mobility analysis and research.

Core Skills

- **Transport Consulting & Advisory:** network and service assessment, operational diagnostics, evidence-based recommendations
- **Applied geospatial analytics:** performance and accessibility analysis of transit networks using public mobility data; public-facing analytical projects (links in portfolio)
- **Financial modeling:** operating cost structures, fare systems, subsidy modeling, capital investment planning
- **Data-Driven Analysis:** multi-source data analysis, performance reporting, decision support analytics
- **Spatial and Network Analysis**: QGIS, GTFS, route analysis, accessibility and coverage studies, spatial visualization
- **Project Management:** end-to-end delivery, team formation, budgeting, expert coordination, workflow management, quality control
- **Analytical Tools:** Python (Pandas, Folium), Excel (advanced financial modeling), SQL, SAP BI
- **Languages:** English (fluent), Spanish (professional working proficiency), Russian (native)
- **Domain Expertise:** public transport operations, urban mobility systems, multimodal networks

Work Experience

OTS Lab, LLC — February 2022 – Present
Transport Analyst & Consultant

- Designed multimodal financial transport models for cities including Yakutsk and Nizhny Novgorod
- Analyzed fare systems, contracts, and city budgets to support equitable transit funding
- Developed multi-year financial projections and service scenarios
- Proposed targeted outreach campaigns to improve service awareness
- Supported route optimization and timetable redesigns with spatial data analysis

St. Petersburg City Legislature — October 2016 – February 2022
Policy & Community Analyst

- Wrote 1,000+ legislative proposals and constituent responses
- Focused on urban mobility, accessibility, and transport legislation Led social campaigns and conducted data-driven analysis of city infrastructure

Ulmart CJSC — November 2013 – October 2016
Lead Analyst

- Created forecasting models and performance dashboards across departments
- Conducted data analysis to support logistics and inventory efficiency

Zhivoy Ofis Group — July 2012 – October 2013
Head of Product Line

- Managed procurement, pricing strategy, and product analytics for key lines

Maksidom LLC
Marketing Analyst Assistant

March 2012 – July 2012

- Monitored pricing, helped plan marketing campaigns, managed merchandising in different stores, andperformed operational activity analysis

Education

B.A. in Corporate Economics & Management
St.-Petersburg State University, Faculty of Economics

Sep 2007 – Jun 2012

Certifications and Projects

- PennX – Urban Transit for Livable Cities (TRANSIT01x)
- Public Mobility Projects (City Projects, St. Petersburg):
  - – Optimized ticketing systems for public transport
  - – Designed night bus and tram network improvements using open data
- Currently expanding Python skills (data wrangling, CSV, filtering, maps) and SQL

Selected Public Data Analysis Projects

How balanced are bike stations in Mexico City?

Analyzed public bike-share usage to identify imbalances between arrivals and departures at each station. The analysis allows to propose redistribution strategies to reduce operational costs and improve system efficiency.
Tools: Public GTFS data, Python (Pandas, Folium), interactive map
https://arseniimx.github.io/Ecobici- balance- 2025/

Speed, Frequency and Time Travel Index Analysis of the Mexico City metrobus Network

Mapped and analyzed average bus speeds, frequencies and time travel indeces across the city to identify bottlenecks and recommend priority lanes or other interventions.
Tools: Python (Pandas, Folium))
https://arseniimx.github.io/CDMX- metrobus- speeds/

Frequency Analysis of the St.-Petersburg transit Network

Mapped and analyzed cumulative frequencies and across the city combining up to tens of different routes per each street segment. Gives an indication of cumulative intervals of the system.
Tools: Python (Pandas, Folium))
https://arseniimx.github.io/IntervalsSPb/