DIMITRIS NIORAS MS, ME
Public Transportation Planner, Spatial Analyst

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Chicago Transit Authority (CTA)

Service Planner, Bus *Jun 2019 - present*
- Evaluating bus ridership and performance, in order to make service changes that improve service quality and reduce overcrowding, according to CTA's service standards.
- Communicating service changes with the public at outreach opportunities.
- Redesigning system-wide service standards tools and procedures using Python and Pandas.

Chicago Metropolitan Agency for Planning (CMAP)

Intern, Policy and Programming *Jun 2018 - May 2019*
Assisted in performance-driven decision making projects, such as:
- Evaluation of the transportation sections of the "ON TO 2050" regional plan.
- Transit Asset Management and Safety analysis, focusing on Vehicle Useful Life
- Expressway traffic and incident analyses, including manipulation of large datasets.

Illinois Institute of Technology, Department of Civil, Architectural and Environmental Engineering

Graduate Research Assistant *Aug 2017 - May 2018*
Provided assistance in a variety of research projects, including the *Chicago Streetcar Renaissance* project, which included research on Transit Signal Priority and Simulation systems.

Eratosthenes, S.A.

Field Data Collector, Supervisor *Oct - Dec 2013*
Transit passenger counts data collector and small team supervisor.

ACADEMIC BACKGROUND

Illinois Institute of Technology

Master of Engineering, Transportation Engineering *Aug 2017 - May 2019*
Coursework in Transportation Engineering and Management, Public Transportation, Economics, GIS.

National Technical University of Athens

Integrated Master of Science (Diploma), Rural and Surveying Engineering *Oct 2011 - Jul 2016*
Concentration in Transportation, Urban and Regional Planning and Development
Thesis: "Optimal Urban Transit Network Design Model Development Using Distinct Passenger Groups"
Coursework in Transportation and Traffic Engineering, Urban Planning, Geography, GIS.

CONFERENCE PRESENTATIONS

- Nioras, D., Iliopoulou, C., Kepaptsoglou, K., Li, Z. (2019). *Urban Transit Network Design with Distinct Passenger Groups: Model and Application.* Poster presented at the TRB Annual Meeting, January 15, 2020, Washington, D.C.
- "Effects of Bus Stop Spacing in Public Transportation Performance: An Analysis of Parallel Corridors in Chicago." Presented at the Transport Chicago Conference, June 14, 2019, Chicago, IL.
- "Feasibility of the Transition to a Battery Electric Fleet in Public Transit." Presented at the Transport Chicago Conference, June 14, 2019, Chicago, IL.

VOLUNTEER EXPERIENCE

Young Professionals in Transportation, Chicago Chapter

Vice Chair of Student Relations *Nov 2019 - present*
Administering relations between students and transportation professionals.
Establishing new ways of communications and easing the transition of students to the transportation industry.

Transport Chicago Annual Conference

Steering Committee Member *Nov 2018 - present*
Assisting the communications team with web design and preparations for the annual conference.

PERSONAL PROJECTS

Public Transportation Network Analyses and Redesign Recommendations

- "Bus Network Modification Proposal for the Municipality of Peristeri, GR, after the Construction of the new Metro Stations "Peristeri" and "Anthoupoli" (2009, upd. 2013)
- "Athens Public Transportation Bus Network Redesign based on the Athens Metro Master Plan (2011)
- "Bus Network Modification Proposal for the Municipality of Athens, GR, after the pedestrianization of "Panepistimiou" Street" (2013, upd. 2015)
- "Bus Network Service Level Analysis and Modification Proposal, Part A: Papagou, Cholargos, Chalandri, GR" (2018)

SKILLS - INTERESTS

Public Transportation Skills

Transit ridership and performance analysis using APC, AFC, AVL and GTFS data.
Use of data to make informed service decisions, in order to improve efficiency and optimize service.
Use of GIS (ArcGIS 10 - Pro, QGIS) and vector graphics software (Adobe Illustrator, Inkscape) in public engagement related to transit service.
Basic Scheduling knowledge using Giro HASTUS.

Software Skills

Use of advanced programming tools (Python, Pandas, Altair, HTML/CSS) to analyze and visualize transportation data.
 Working knowledge of database systems, including PostgreSQL, SQLite, Oracle, AWS Redshift.
Use of basic MS Office Applications, including Word, Excel, PowerPoint, Access.

Organizations

Young Professionals in Transportation Chicago: Vice Chair of Student Relations
Transport Chicago Steering Committee Member, Institute of Transportation Engineers (ITE), Young Professionals in Transportation (YPT), American Planning Association (APA)

Music

Piano (Teaching Degree), Guitar, Brass Instruments. Former member of the Rock Band "Midnight Notes"

Languages

Greek (native), English, German (basic)