

Curriculum Vitae

Dr. Paraskevas Nikolaou

Nationality: Cypriot

Gender: Male

Date of Birth: 27/06/1990

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🔍 Research Gate:

1. Education

Aristotle University Thessaloniki, Greece
School of Rural and Surveying Engineering May 2022- January, 2024
Faculty of Engineering
Postdoc position
Title: “Urban Development and Transportation: Investigating Causes and Consequences of their Interrelation at a Spatio-Temporal Level”

University of Cyprus Nicosia, Cyprus
Department of Civil and Environmental Engineering Jan.2017- Dec. 2020
Ph.D. in Civil Engineering-Transportation Engineering
Thesis: “Regional Spatio-Temporal Explanatory Modelling of Macroscopic Transportation Information for Supporting Decision-Making Processes”

University of Cyprus Nicosia, Cyprus
Department of Civil and Environmental Engineering Sept.2015- Dec. 2016
M.Sc. in Civil Engineering- Construction and Transport Infrastructure Management
Grade: 8.5/10
Thesis: “Data-Driven Explanatory Investigation of Factors Effecting on Road Safety Levels on the Global and Regional Scale; Static and Intra-Period Approaches. Case Study, Cyprus”

Aristotle University Thessaloniki, Greece
School of Rural and Surveying Engineering Oct.2010 - Jul. 2015
Faculty of Engineering
B.Sc. (M.Eng. equivalent) in Rural and Surveying Engineering-Construction
Scientific Area: Transportation Planning
Grade: 7.4/10
Thesis: “Research Stated Preference for the Implementation of the Cycling Networks in Larnaca”

2. Teaching & Supervising

2.1. Teaching

Frederick University Nicosia, Cyprus
School of Engineering - Department of Civil Engineering
➤ *Undergraduate Course “Transportation Engineering”* Feb. 2023 - June 2023
Feb. 2024 - June 2024
➤ *Undergraduate Course “Highway Engineering”* Feb. 2024 - June 2024

University of Cyprus

Department of Civil and Environmental Engineering

Nicosia, Cyprus

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- Undergraduate Course “**Highway Engineering and Construction**” Jan. 2021 - May 2021
 - Undergraduate Course “**Transportation Engineering**” Sept. 2020 - Dec. 2020
Sept. 2018 - Dec. 2018
 - Undergraduate Course “**Transportation Engineering**” Jan. 2020 - May 2020

2.2. Academic Supervising

University of Cyprus

Supervisor in Master of Engineering Thesis at UCY

Nicosia, Cyprus

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- Master of Engineering Student, Title: “*Urban Sprawl Identification utilizing Land Values: Application in the city of Larnaca, Cyprus*” January 2023- May 2023

3. List of Publications

3.1. Peer-Review International Journals

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1. **Nikolaou, P.** and Dimitriou, L. (2024). “*Temporal integration of the spatial autoregressive model for analyzing European multimodal freight transport demand*”. Multimodal transportation, 3(3), pp.100149–100149. doi:<https://doi.org/10.1016/j.multra.2024.100149>.
 2. **Nikolaou, P.** and Dimitriou, L. (2024). “*Spillover effects in transit networks: A parameterized weight matrix spatial lagged approach*”. Journal of Urban Mobility, 6, pp.100081–100081. doi:<https://doi.org/10.1016/j.urbmob.2024.100081>.
 3. **Nikolaou, P.** and Basbas, S., 2023. “Urban Development and Transportation: Investigating Spatial Performance Indicators of 12 European Union Coastal Regions”, Land 12(9), <https://doi.org/10.3390/land12091757>
 4. Tzanni, O., **Nikolaou, P.**, Giannakopoulou, S., Arvanitis, A. and Basbas, S., 2022. “*Social Dimensions of Spatial Justice in the Use of the Public Transport System in Thessaloniki, Greece*”, Land, 11(11), <https://doi.org/10.3390/land11112032>.
 5. **Nikolaou, P.** and Dimitriou, L., 2021. “*Lessons to be Learned from Top-50 Global Container Port Terminals Efficiencies: A Multi-Period DEA-Tobit Approach*”, Maritime Transport Research, 2, p.100032.
 6. Maas, S., **Nikolaou, P.**, Attard, M. and Dimitriou, L., 2021. “*Spatial and temporal analysis of shared bicycle use in Limassol, Cyprus*”, Journal of Transport Geography, 93, p.103049.
 7. Maas, S., **Nikolaou, P.**, Attard, M. and Dimitriou, L., 2021. “*Heat, Hills and the High Season: A Model-Based Comparative Analysis of Spatio-Temporal Factors Affecting Shared Bicycle Use in Three Southern European Islands*”, Sustainability, 13(6), p.3274.
 8. Maas, S., **Nikolaou, P.**, Attard, M. and Dimitriou, L., 2021. “*Examining spatio-temporal trip patterns of bicycle sharing systems in Southern European island cities*”. Research in Transportation Economics, 86, p.100992.
 9. **Nikolaou, P.**, Basbas, S., Politis, I. and Borg, G., 2020. “*Trip and Personal Characteristics towards the Intention to Cycle in Larnaca, Cyprus: An EFA-SEM Approach*”, Sustainability, 12(10), p.4250.
 10. **Nikolaou, P.** and Dimitriou, L., 2020 “*Identification of critical airports for controlling global infectious disease outbreaks: Stress-tests focusing in Europe*”. Journal of Air Transport Management, 85, p.101819.
 11. Dimitriou, L., **Nikolaou, P.** and Antoniou, C., 2019. “*Exploring the temporal stability of global road safety statistics*”. Accident Analysis & Prevention, 130, pp. 38-53.
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12. **Nikolaou, P.** and Dimitriou, L., 2018. “*Evaluation of road safety policies performance across Europe: Results from benchmark analysis for a decade*”. Transportation Research Part A: Policy and Practice, 116, pp.232-246.
 13. Dimitriou, L. and **Nikolaou, P.**, 2018. “*Data envelopment analysis for investigating optimal road safety policies utilising global epidemiological, risk exposure and socio-economic statistics*”. International Journal of Decision Support Systems, 2(4), p.278.
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3.2. Peer-Review Conference Proceedings

1. Alodianakis, F., **Nikolaou, P.** and Dimitriou, L., 2024. “*Capturing Essential Differences in Transit Networks Redesign Incorporating Spatial Spillover Effects*”, Transportation Research Board Annual Meeting, Washington D.C., U.S.A.
 2. Gkartzonikas, C., **Nikolaou, P.** and Dimitriou, L., 2024. “*Evaluation of Spillover Effects for Public Transportation Network Change using a Spatial Difference-in-Differences Approach*”, Transportation Research Board Annual Meeting, Washington D.C., U.S.A.
 3. Ballis, H., Alogdianakis, F., **Nikolaou, P.**, Stylianou, K., Dimitriou, L., 2021. “*Fusion of General Transit Feed Specification (GTFS) and passenger count data: A case study on Cyprus Transit System*”, IEEE Crete.
 4. Maas, S., **Nikolaou, P.**, Attard, M. and Dimitriou, L., 2021. “*Classifying bicycle sharing system use in Southern European island cities: cycling for transport or leisure?*”. Transportation Research Procedia, 52, pp.565-572.
 5. **Nikolaou, P.**, Folla, K., Dimitriou, L. and Yannis, G., 2021. “*European Countries’ Road Safety Evaluation by Taking Into Account Multiple Classes of Fatalities*”, Transportation Research Procedia, 52, pp.284-291.
 6. **Nikolaou, P.** and Dimitriou, L., 2021. “*Investigating and Identifying Critical Airports for Controlling Infectious Diseases Outbreaks*”, Transportation Research Procedia, 52, pp.437-444.
 7. Folla, K., **Nikolaou, P.**, Dimitriou, L., Yannis, G., 2020. “*Benchmarking Analysis of Road Safety Levels for an Extensive and Representative Dataset of European Cities*”. 5th Conference on Sustainable Urban Mobility Virtual CSUM2020, Athens.
 8. **Nikolaou, P.**, Dimitriou, L., 2020. “*Investigation of the European Airport System Robustness against Infectious Diseases Spreading through the Airline Network: Results from Extensive Stress-tests*”, 99th Transportation Research Board Annual Meeting, Washington D.C., U.S.A.
 9. **Nikolaou, P.**, Dimitriou, L., 2020. “*A European Multimodal Freight Model accounting for Under-Performing Countries*”, 99th Transportation Research Board Annual Meeting, Washington D.C., U.S.A.
 10. **Nikolaou, P.**, Dimitriou, L., 2019. “*Comparative Evaluation of European Container Port Terminals Productivity Based on Their Operational Characteristics*”, 98th Transportation Research Board Annual Meeting, Washington D.C., U.S.A.
 11. **Nikolaou, P.**, Dimitriou, L., Antoniou, C., 2019. “*Global Road Traffic Fatalities: Explanatory Analysis Based on Alternative Structural Equations Modeling Approaches*”. 98th Transportation Research Board Annual Meeting, Washington D.C., U.S.A.
 12. Dimitriou, L., **Nikolaou, P.**, 2017. “*Dynamic Partitioning of Urban Road Networks Based on their Topological and Operational Characteristics*”. 5th IEEE International Conference on Models and Technologies for Intelligent Transportation.
 13. Dimitriou, L., **Nikolaou, P.** and Antoniou, C., 2017. “*Policy-Driven Investigation of Sectoral Latent Information Regarding Global Road Fatalities*”. Transportation Research Procedia, 22, pp. 685-694.
 14. Dimitriou, L., Kousta, O. and **Nikolaou, P.**, 2016. “*A Discrete-Time Nonlinear Optimal Control Mechanism for Monitoring Dynamic Signalized Urban Traffic Networks*”. IFAC-PapersOnLine, 49(3), pp.19-24.
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4. Research and Projects Experience

4.1. Projects with MOBYX (<https://mobyx.co>)

MethOds and tools for comprehensive impact Assessment of the CCAM solutions for passengers and goods – H2020

Description: The EU-funded Move2CCAM project will examine the impact of CCAM passenger and freight solutions and define use cases, business models and key performance indicators by engaging in co-creation actions with a network of actors across the entire CCAM ecosystem. It will also create an impact assessment tool to evaluate the effect of CCAM interventions on mobility, society, the economy, public health and the environment.

Period: 2022-2025

EU contribution: 2 577 344 €

SEAMLESS SHARED URBAN MOBILITY – H2020

Description: The EU-funded SUM project has set an ambitious goal: the integration of innovative shared mobility systems with public transport in over 15 European cities by 2026, with plans to expand to 30 cities by 2030. This is centred around key principles such as intermodality, interconnectivity, sustainability, safety, and resilience.

Period: 2023-2026

EU contribution: 9 872 097,75 €

4.2. Projects with MaaS Lab (<https://www.maaslab.org/>)

InclusiveSpaces – Horizon Europe

Description: InclusiveSpaces aims to design, monitor, and evaluate urban spaces to ensure they are inclusive, accessible, and climate adaptive. By introducing co-design accessibility concepts, we engage people with disabilities and older adults to enhance inclusiveness, social cohesion, and climate change mitigation and adaptation. InclusiveSpaces is an initiative to standardise and digitise design frameworks towards a transition to an inclusive and climate-friendly built environment.

Period: 2024-2027

4.3. Projects with University of Cyprus – Lab for Transport Engineering

Technical Support to the Municipality of Yermasogeia for the Design of a Linear Stream Park using Yermasogeia’s River.

*Nicosia, Cyprus
Dec. 2022-Sept. 2023*

Fund: Municipality of Yermasogeia

Period: 2023-2025

Total Budget: 340.000,00 €

Technical Support for the development of Transit Systems in Cyprus.

*Nicosia, Cyprus
June. 2022-Current*

Fund: Ministry of Transport, Communications, and Works

Period: 2022- 2025.

Total Budget: 300.000,00 €

Technical Support for the development of Transit Systems in Cyprus.

*Nicosia, Cyprus
Sept. 2020- Dec. 2020*

Fund: Ministry of Transport, Communications, and Works

Period: 2020- 2021.

Total Budget: 60.000,00 €

Step2Smart Collaboration among Islands’ urban areas for Promoting Environmental Conditions through the Implementation of Intelligent Transport Systems.

*Nicosia, Cyprus
Jan. 2021- Jun. 2021
May. 2020- Aug. 2020
May. 2018- Jan. 2020
Nov. 2017- Dec. 2017*

Fund: Interreg Greece-Cyprus Research Grand

Period: October 2017-August 2020.

Total Budget: 1.805.632,50 €.

CAMP-sUmp. CAMPus sustainable University mobility plans in MED areas.

*Nicosia, Cyprus
Jul. 2017- Jul. 2017*

Fund: Interreg-MED.

Period: November 2016-April 2018.

Total Budget: 545.150,00 €

5. Service to the Research Community

5.1. Special Issues Guest Editor

Invited to serve as a Guest Editor in the Special Issue "From Concept to Reality: Micromobility's Role in Enabling the 15-Minute City Vision". Sustainability (Impact Factor: 3.9), 2024, (First Approval stage)

5.2. Reviewer

International Journals

Note: Parenthesis denotes the number of reviews for each corresponding year

1. Transport Policy, **Elsevier**, 2020(1); 2021(2); 2022(2).
 2. Environmental Pollution, **Elsevier**, 2020(1).
 3. Case Studies on Transport Policy, **Elsevier**, 2019(1); 2021(1); 2022(2).
 4. Journal of Advanced Transportation, **Hindawi**, 2021(2); 2022(5); 2023(1).
 5. Inventions, **MDPI**, 2021(1).
 6. Transportation Research Record: Journal of Transportation Research Board, **SAGE**, 2019(1); 2020(1); 2022(1).
 7. Environmental Science and Pollution Research, **Aries Systems Corporation**, 2022(1).
 8. Sustainability, **MDPI**, 2022(6); 2023(4).
 9. Heliyon, **Aries Systems Corporation**, 2022(1); 2023(1).
 10. Journal of Marine Science and Technology, **NATL TAIWAN OCEAN UNIV**, 2023(1).
 11. Processes, **MDPI**, 2023(1).
 12. Transportation Research Part C, **Elsevier**, 2023(1).
 13. Journal Land, **MDPI**, 2023(2)
 14. TRB Annual Meeting: 2023(1)
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6. Awards

1. Best Paper Award Winner - TRA VISION Young Researcher Competition (2020)

Title: "Controlling the possible spread of infectious diseases through the air transportation network: a dynamic network approach"

Cross Modality Award Winner

Link:

https://www.travisions.eu/TRAVisions/young_researcher_results_2020/?jsessionid=e43e5fc6a8d7709d03baf63f687c

2. Co-Author of the Best Paper Award at the 1st International Conference on Intermodal Transports, held in Alexandroupolis, Greece 15-16 October 2015.

Title: "Data Envelopment Analysis for Investigating Optimal Road Safety Policies utilizing Global Epidemiological, Risk Exposure, and Socio-Economic Statistics"

7. Languages

Mother tongue(s): Greek

Other language(s):

- English
LISTENING C1 - READING C1 - WRITING C1
SPOKEN PRODUCTION C1 - SPOKEN INTERACTION C1
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