





PERSONAL INFORMATION



Ioannis Karakikes

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Date of birth 30/09/1988 | Nationality Greek

Current position

PhD Scholar: State Scholarships Foundation (IKY)
Research Associate: Traffic, Transportation and Logistics Laboratory - TTLLog, Civil Engineering Department, University of Thessaly

EDUCATION

(11/2016 – today)

PhD Candidate

University of Thessaly, Civil Engineering Department, Volos, Greece

- Title: Simulation and impact assessment of innovative systems for urban freight distribution

(10/2013 – 12/2015)

Master Program (M.Sc.) in Transportation Systems (in English)

Technical University of Munich (TUM), Munich, Germany

- Field of Study: Intelligent Transportation Systems (ITS)

(09/2006 – 11/2012)

Diploma in Civil Engineering

University of Thessaly, Civil Engineering Department, Volos, Greece

- Field of Study: Transportation

LIFE LONG EDUCATION

(09/2020 – 01/2021)

Training Certificate

National and Kapodistrian University of Athens, Athens, Greece

- Adult Instructor Training: Integrated Training and Exercise Program

(12/2020 – 01/2021)

Training Certificate

National and Kapodistrian University of Athens, Athens, Greece

- HTML 5 and JavaScript: The First Steps in Web Development

HONOURS AND AWARDS –
GRANTS – SCHOLARSHIPS

Honours and awards

3rd place, **Karakikes Ioannis** – Rozis Nikolaos, CenSensus team, Central Hackathon, May 11-13, 2018. Organized by: Prefecture of Central Greece. Prize: 1,000 €

Grants - Scholarships

Scholarship for Dissertation entitled “Simulation and impact assessment of innovative systems for urban freight distribution”, Scholarship provider: State Scholarships Foundation (IKY), NSRF (2014-2020). Contract agreement: 2018-050-0502-12585
University of Thessaly, Volos, Greece, 24.04.2018-24.04.2021

Scholarship for participating in the “ALLIANCE: Enhancing excellence and innovation capacity in sustainable transport interchanges” project founded by the European Union (Twinning Spreading Excellence, Widening Participation, Science with and for Society, Scholarship provider: Research Committee of the University of Thessaly
University of Thessaly, Volos, Greece, 01.07.2020-31.08.2020

Grant for Young Researchers Session, COST TU1305, European Commission, HORIZON 2020
University Milano Bicocca, Milan, Italy, 14-16.02.2018

Grant for Short Term Scientific Mission (STSM), "How travelers' behavior affects urban freight distribution", COST TU1305, European Commission, HORIZON 2020
Transport and Telecommunication Institute (TTI), Riga, Latvia, 17-23.09.2017

WORK EXPERIENCE

(04/2016 – today)

Research Associate

Traffic, Transportation and Logistics Laboratory - TTLog, Civil Engineering Department, University of Thessaly, Pedion Areos, 38334, Volos, Greece

- Participation in the European research program "Enhancing excellence and innovation capacity in sustainable transport interchanges - ALLIANCE" (grant agreement 692426), European Commission, HORIZON 2020 TWINN-2015, 2016-2018.
- Participation in the European research program "New Cooperative Business models and guidance for sustainable city logistics - NOVELOG" (grant agreement 636626), European Commission, HORIZON 2020 Mobility for Growth, 2015-2018.

(11/2019 – today)
(02/2011 – 04/2011)

External Partner / Researcher

Hellenic Statistical Authority, Peiraeus and Eponiton 185 10, Peiraeus, Greece

- Population-Housing Census 2011
- Surveys:
2019: i) Road Freight Transport, ii) Livestock, iii) Innovation
2020: i) Structure and Payroll, ii) Road Freight Transport, iii) Collective Accommodation for Short Stays, iv) Structure of Service Companies

(02/2015 – 03/2016)

Transportation Engineer

PSLV Planungsgesellschaft Stadt – Land – Verkehr GmbH, Josephspitalstrasse 7, 80331 Munich, Germany

- Design of traffic models (Vissim Software)
- Transportation project studies

(07/2015 – 01/2016)
(04/2014 – 04/2015)

Graduate Research Assistant

Chair of Traffic Engineering and Control, Technical University of Munich, Arcistrasse 21, 80333 Munich, Germany

- Modeling German Highway Networks (Autobahnen) (Vissim Software)
- Processing and correcting trajectory data extracted from Video (T-Analyst & Traffic Intelligent Software)

ACADEMIC EXPERIENCE

Assistant supervisor in Bachelor
Theses

- Tsianou Georgiana (2020): Investigating the operation of an autonomous truck platooning system in the east side of Thessaloniki.
- Mavrogenidou Panagiota (2019): A simulation of ITS impact on traffic.
- Zerzis Dimitris, Terzakis Thomas (2018): Simulation of the establishment and operation of an urban consolidation center in Volos city.
- Chatzistamatis Nikolaos (2018): Night deliveries in the central business district of Volos city.

Assistant supervisor in Master
Theses

- Magginas Vissarion (2020): Estimating the impacts of 3D printing in freight transportation.
- Mpogkas Konstantinos (2020): Location of small distribution centers in urban areas.
- Kiouisis Vassilis (2018): Assessing traffic and environmental impacts of smart lockers logistics measure in a medium-sized municipality of Athens using traffic microsimulation.

PERSONAL SKILLS

Mother tongue Greek

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken Production	
English	C2	C2	C2	C2	C2
Proficiency of Michigan ECPE					
German	B2	B2	B2	B2	B2
Goethe – Zertifikat B2					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user

- Computer skills**
 - Transportation related: PTV Vissim, PTV Visum, Anadelta Software, SUMO, Sitraffic Office, Anylogic
 - Programming language: MATLAB, Python
 - General: AutoCAD (Certification by ECDL CAD), ArcGIS, Microsoft Office, CorelDraw, SPSS
- Other skills**
 - 08/2006 – 08/2011 Volunteer, YMCA Summer Camps, Agios Ioannis, Pelion – Manager of Sea Activities
 - 06/2002 Second place in Swimming National Championship
- Driving license** Category B
- Military service** 02/2012 – 02/2013

ADDITIONAL INFORMATION

- Participation in Scientific and Professional Associations**
 - Member of the Technical Chamber of Greece
 - Member of the Association of Civil Engineers of Magnesia, Greece
 - Member of the Hellenic Institute of Transportation Engineers
- Organizing and Scientific Committees**
 - Member of the Organizing Committee for the 5th Conference of Sustainable Urban Mobility (Virtual CSUM2020), Greece, 17-19 June 2020
 - Member of the Organizing Committee for the 4th Conference of Sustainable Urban Mobility (CSUM2018), Skiathos Island, Greece, 24-25 May 2018
 - Member of the Organizing Committee for the 3rd Conference of Sustainable Urban Mobility (3rd CSUM), Volos, Greece, 26-27 May 2016
- Reviewer in Journals and Conferences**
 - Journals**
 - Sustainability (Topic Editor)
 - Conferences**
 - WCTR Young Conference 2019
 - Conference on Sustainable Urban Mobility (from 4th to current)
- Editor in books**
 - Guest editor of the Volume “Advances in Mobility as a Service Systems - Proceedings of 5th Conference on Sustainable Urban Mobility, Virtual CSUM2020, 17-19 June, Greece” in the book series “Advances in Intelligent Systems and Computing”, Springer, ISSN: 2194-5357, DOI: 10.1007/978-3-030-61075-3
 - Guest editor of the Volume “Data analytics: Paving the way to sustainable urban mobility - Proceedings of 4th Conference on Sustainable Urban Mobility, CSUM2018, 24-25 May, Skiathos Island, Greece” in the book series “Advances in Intelligent Systems and Computing”, Springer, ISSN: 2194-5357, DOI: 10.1007/978-3-030-02305-8
- Summer Schools / Seminars / Training Programs**
 - PTV Academic exercises for Students Online course “PTV Visum – Macroscopic Modelling Basics”, PTV Group, 03-04.06.2020
 - Virtual Training Course “The use of ArcGIS platform as a set of tools for sustainable urban mobility planning”, Marathon Data Systems, 17.06.2020
 - Young Researchers Seminar, ALLIANCE Project, Riga, Latvia, 18-19.10.2018
 - Aimsun Next Training Course “Aimsun Next Combined Modelling Methodologies”, Aimsun, Athens, Greece, 04.09.2018
 - 6th Workshop on the Research Activities of the School of Engineering, University of Thessaly, Volos, Greece, 30.05.2018

- Young Researchers Seminar, ALLIANCE Project, Riga, Latvia, 18-21.10.2017
- 1st Summer School of ALLIANCE project in “Sustainable Transport Interchanges Program (STIP) – Part 1: Freight Transportation”, Riga, Latvia, 16-22.07.2017
- Young Researchers Session, COST TU1305, Krakow, Poland, 29-30.06.2017
- Young Researchers Seminar, ALLIANCE Project, Riga, Latvia, 19-21.10.2016
- Training Program “Urban and Transportation Planning”, ALLIANCE Project, Volos, Greece, 24-27.05.2016
- Exchange student, Jan Arentz Schule, Alkmaar, Netherlands, 2003

STUDIES

Transportation Studies

- Feasibility study through traffic microscopic simulation at the intersections of Münchner Strasse / Hofäckerallee and Münchner Strasse / Bahnhofstrasse in the Unterföhring area, Munich, Germany, 2020. Role: Model developer.

PUBLICATIONS

Theses - Dissertations

Karakikes Ioannis, “Simulation and impact assessment of innovative systems for urban freight distribution”, PhD Thesis, Department of Civil Engineering, University of Thessaly, Volos (ongoing).

Karakikes Ioannis, “Designing a Vissim-Model for a Motorway Network with Systematic Calibration on the Basis of Travel Time Measurements” Master Thesis, Chair of Traffic Engineering and Control, Technical University of Munich, December 2015.

Karakikes Ioannis, “Road projects Earthworks Calculation – Method Comparison”, Diploma Thesis, Department of Civil Engineering, University of Thessaly, January 2012.

Scientific Journals

1. Karakikes Ioannis, Nathanail Eftihia, 2020. “Assessing the impacts of crowdshipping using public transport: A case study in a middle sized Greek city”. *International Journal of Logistics Research and Applications* (under 1st review).
2. Nathanail Eftihia, Karakikes Ioannis (in press). “How accurately do experts perceive the effectiveness of urban freight transportation solutions in medium-sized cities?” *International Journal of Logistics Systems and Management*.
3. Nathanail Eftihia, Karakikes Ioannis, Mitropoulos Lambros, Adamos Giannis, 2020. “A sustainability cross-case assessment of city logistics solutions”. *Case Studies on Transport Policy*, ISSN 2213-624X. DOI: 10.1016/j.cstp.2020.12.005
4. Karakikes Ioannis, Nathanail Eftihia, 2020. “Using the Delphi method to evaluate the appropriateness of urban freight transport solutions”. *Smart Cities*. Volume 3, Issue 4, Pages 1428-1447. DOI: 10.3390/smartcities3040068
5. Nathanail Eftihia, Adamos Giannis, Mitropoulos Lambros, Karakikes Ioannis, Yatskiv (Jackiva) Irina, 2020. “How efficiently educational programs prepare professionals to meet current and future challenges of transport interchanges”. *European Transport \ Transporti Europei* 79(10):1-23. Giordano Editore.
6. Savrasovs Mihails, Pticina Irina, Zemlyanikin Valery, Karakikes Ioannis, 2018. “Demand data modelling for microscopic traffic simulation”, *Transport and Telecommunication Journal*, 2018, Volume 19, Issue 4, Pages 364–371. DOI: 10.2478/tj-2018-0031
7. Nathanail Eftihia, Mitropoulos Lambros, Karakikes Ioannis, Adamos Giannis, 2018. “Sustainability framework for assessing urban freight transportation measures”, *Logistics & Sustainable Transport*, 9.2 (2018): 16-36. doi:10.2478/lst-2018-0007
8. Karakikes Ioannis, Hofmann Wladimir, Mitropoulos, Lambros, Savrasovs Mihails, 2018. “Evaluation of freight measures by integrating simulation tools: the case of Volos port, Greece”. *Transport and Telecommunication Journal*, Volume 19, Issue 3, Pages 224-232. DOI:10.2478/tj-2018-0019
9. Karakikes Ioannis, Spangler Matthias, Margreiter Martin, 2016. “Motorway simulation using bluetooth data”, *Transport and Telecommunication Journal*, 2016, Volume 17, Issue 3, Pages

242–251. DOI: 10.1515/tj-2016-0022

Conference presentations and
publications in proceedings

10. Karakikes Ioannis, Nathanail Eftihia, 2021. "Assessing the Impacts of Crowdshipping: A Simulation based Study in the City of Volos, Greece", Paper 21-02544, 100th Annual Meeting of TRB, Washington, D.C.
11. Karakikes Ioannis, Nathanail Eftihia, Karatsoli Maria, 2021. "Validating urban freight deliveries through traffic microsimulation: An experimental study". In: Nathanail E.G., Adamos G., Karakikes I. (eds) *Advances in Mobility-as-a-Service Systems. CSUM 2020. Advances in Intelligent Systems and Computing*, vol 1278. Springer, Cham. https://doi.org/10.1007/978-3-030-61075-3_77
12. Karakikes Ioannis, Nathanail Eftihia, 2021. "Validating the simulated impacts of urban freight transport". In: Nathanail E.G., Adamos G., Karakikes I. (eds) *Advances in Mobility-as-a-Service Systems. CSUM 2020. Advances in Intelligent Systems and Computing*, vol 1278. Springer, Cham. https://doi.org/10.1007/978-3-030-61075-3_80
13. Manginas Vissarion, Nathanail Eftihia, Karakikes Ioannis, 2021. "Investigating the impact of additive manufacturing on supply chains". In: Nathanail E.G., Adamos G., Karakikes I. (eds) *Advances in Mobility-as-a-Service Systems. CSUM 2020. Advances in Intelligent Systems and Computing*, vol 1278. Springer, Cham. https://doi.org/10.1007/978-3-030-61075-3_19
14. Mpogas Konstantinos, Nathanail Eftihia, Karakikes Ioannis, 2021. "Location planning of small consolidation centers in the city of Volos". In: Nathanail E.G., Adamos G., Karakikes I. (eds) *Advances in Mobility-as-a-Service Systems. CSUM 2020. Advances in Intelligent Systems and Computing*, vol 1278. Springer, Cham. https://doi.org/10.1007/978-3-030-61075-3_83
15. Karakikes Ioannis, Nathanail Eftihia, 2020. "Stakeholder Selection of the most Appropriate Urban Freight Transport Solution using a Real Time Delphi Platform", Paper 20-00389, 99th Annual Meeting of TRB, Washington, D.C.
16. Savrasovs Mihails, Karakikes Ioannis, Pticina Irina, 2019. "Shopping Mall Environmental Impact Evaluation Based on Microscopic Traffic Flow Simulation". In: Endrjukaite, T., Dudko, A., Jaakkola, H., Thalheim, B., Kiyoki, Y., Yoshida, N. (eds) *28th International Conference on Information Modelling and Knowledge Bases. EJC2018. Information Modelling and Knowledge Bases XXX*, vol 312. page 125. ISBN: 978-1-61499-933-1
17. Karakikes Ioannis, Nathanail Eftihia, Savrasovs Mihails, 2019. "Techniques for Smart Urban Logistics Solutions' Simulation: A Systematic Review". In: Kabashkin I., Yatskiv (Jackiva) I., Prentkovskis O. (eds) *Reliability and Statistics in Transportation and Communication. RelStat 2018. Lecture Notes in Networks and Systems*, vol 68. Springer, Cham, https://doi.org/10.1007/978-3-030-12450-2_53
18. Kiousis Vasilis, Nathanail Eftihia, Karakikes Ioannis, 2019. "Assessing Traffic and Environmental Impacts of Smart Lockers Logistics Measure in a Medium-Sized Municipality of Athens". In: Nathanail E., Karakikes I. (eds) *Data Analytics: Paving the Way to Sustainable Urban Mobility. CSUM 2018. Advances in Intelligent Systems and Computing*, vol 879. Springer, Cham, https://doi.org/10.1007/978-3-030-02305-8_74
19. Nathanail Eftihia, Adamos Giannis, Karakikes Ioannis, Mitropoulos Lambros, 2019. "Does the Implementation of Urban Freight Transport Policies and Measures Affect Stakeholders' Behavior?". In: Nathanail E., Karakikes I. (eds) *Data Analytics: Paving the Way to Sustainable Urban Mobility. CSUM 2018. Advances in Intelligent Systems and Computing*, vol 879. Springer, Cham, https://doi.org/10.1007/978-3-030-02305-8_76
20. Karatsoli Maria, Karakikes Ioannis, Nathanail Eftihia, 2019. "Urban Traffic Management Utilizing Soft Measures: A Case Study of Volos City". In: Nathanail E., Karakikes I. (eds) *Data Analytics: Paving the Way to Sustainable Urban Mobility. CSUM 2018. Advances in Intelligent Systems and Computing*, vol 879. Springer, Cham, https://doi.org/10.1007/978-3-030-02305-8_79
21. Karakikes Ioannis, Hofmann Wladimir, Mitropoulos Lambros, Savrasovs Mihails, 2019. "Integrating Logistics and Transportation Simulation Tools for Long-Term Planning". In: Nathanail E., Karakikes I. (eds) *Data Analytics: Paving the Way to Sustainable Urban Mobility. CSUM 2018. Advances in Intelligent Systems and Computing*, vol 879. Springer, Cham, https://doi.org/10.1007/978-3-030-02305-8_97
22. Nathanail Eftihia, Karakikes Ioannis, Mitropoulos Lambros, Adamos Giannis, 2018. "A cross-case

assessment of city logistics measures". 7th Transport Research Arena TRA 2018, Vienna, Austria, 16-19 April 2018.

23. Karakikes Ioannis, Nathanail Eftihia, Rozis Nikolaos, 2018. "Urban freight transport: development of a Delphi platform for achieving consensus". Proceedings of 5th Panhellenic Planning and Regional Development Conference, Volos, Greece.
24. Eliou Nikolaos, Gkoutzini Andromachi, Karakikes Ioannis, Gizas Ioannis, Galanis Athanasios, Kaliampetsos George, 2018. "Calculation of road projects earthwork: A comparison of methods", 5th International Conference on Road and Rail Infrastructure, Road and Rail Infrastructure V, Proceedings of the Conference CETRA 2018, ISBN: 978-953-8168-25-3, Pages 1051-1056, 5th International Conference on Road and Rail Infrastructure, 17-19 May 2018, Zadar, Croatia, <https://doi.org/10.5592/CO/CETRA.2018.783>
25. Karakikes Ioannis, Mitropoulos Lambros, Savrasovs Mihails, 2018. "Evaluating smart urban freight solutions using microsimulation". In: Kabashkin I., Yatskiv I., Prentkovskis O. (eds) Reliability and Statistics in Transportation and Communication. RelStat 2017. Lecture Notes in Networks and Systems, vol 36. Springer, Cham https://doi.org/10.1007/978-3-319-74454-4_53
26. Karakikes Ioannis, Eftihia Nathanail, 2017. "Simulation techniques for evaluating smart logistics solutions for sustainable urban distribution". Procedia Engineering, Volume 178, 2017, Pages 569-578, Elsevier. 16th International Conference "Reliability and Statistics in Transportation and Communication" (RelStat'16), Riga, Latvia. <http://dx.doi.org/10.1016/j.proeng.2017.01.110>
27. Karakikes Ioannis, Spangler Matthias, Margreiter Martin, 2017. "Designing a VISSIM-model for a motorway network with systematic calibration on the basis of travel time measurements", Transportation Research Procedia, Volume 24, 2017, Pages 171-179, Elsevier. 3rd Conference on Sustainable Urban Mobility, Volos, Greece, 26-27 May 2016. <https://doi.org/10.1016/j.trpro.2017.05.086>
28. Hatzistamatis Nikolaos, Nathanail Eftihia, Karakikes Ioannis, 2019. "Can night deliveries actually work in a medium size Greek city?", 9th International Congress on Transportation Research, Athens, Greece, October 24-25, 2019.
29. Karakikes Ioannis, Nathanail Eftihia, Adamos Giannis, Karatsoli Maria, 2018. "Social media users as carriers into the last mile delivery", hEART 2018: 7th Symposium of the European Association for Research in Transportation, Athens, Greece, September 5-7, 2018.
30. Nathanail Eftihia, Karakikes Ioannis, Mitropoulos Lambros, Adamos Giannis, 2018. "City logistics measures cross-case assessment", 6th PhD Research Workshop of Polytechnic School of University of Thessaly, Volos, May 30, 2018, pp. 13-14.
31. Karakikes Ioannis, Nathanail Eftihia, 2018. "Evaluation of social delivery as key-measure to last mile distribution", COST TU1305 Final Conference, Milan, Italy, 14-16 February, 2018.
32. Karakikes Ioannis, 2017. "Simulation and impact assessment of innovative systems for urban freight distribution", COST TU1305 Young Researchers' Session, Krakow, Poland, 29-30 June, 2017.
33. Karakikes Ioannis, Savrasovs Mihails, Hoffman Wladimir, Mitropoulos Lambros, Lang Sebastian, 2018. "Integrating logistics and transportation simulation tools for evaluating smart urban freight solutions". ALLIANCE Final Conference, Riga, Latvia, 17 October, 2018.

Conference proceedings /
presentations with abstract review

Other presentations

Volos, Greece, 07.01.2021