

## PERSONAL INFORMATION

## Maria Karatsoli



📍 Volos, 38334, GREECE  
☎ 0030 2421 0 74176 📠 0030 697 9838126  
✉ [makarats@uth.gr](mailto:makarats@uth.gr) | [maria.karatsoli@gmail.com](mailto:maria.karatsoli@gmail.com)

📅 Date of birth 27/10/1988 | 🇬🇷 Nationality Greek

Current position

🎓 **PhD Scholar:** State Scholarships Foundation (IKY)

## WORK EXPERIENCE

24/4/2018 – today

**PhD Scholar of State Scholarships Foundation (IKY)**

State Scholarships Foundation (IKY), Ethnikis Antistaseos Ave. 41, 14234 Nea Ionia, Athens, Greece

- Dissertation title: Intelligent transport systems with usage of “big data” for management of sustainable mobility

02/2016 – 03/2016

**Graduate Research Assistant**

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

- Design of traffic models (Vissim Software)
- Processing and evaluation of data

04/2015 – 04/2016

**Transportation Engineer**

GEVAS HUMBERG & PARTNER, Grillparzerstraße 12a, 81675, Munich, Germany

- Transportation project studies
- AutoCAD Design
- Processing and evaluation of data

03/2015

**Intern**

SSP Consult- Beratende Ingenieure GmbH, Spiegelstrasse 9, 81241, Munich, Germany

- Cost analysis of transportation projects (ARRIBA software)
- Transportation construction studies
- Implementation of Intelligent Transportation Systems (ITS) on Highways

## EDUCATION AND TRAINING

11/2016 – today

**PhD Candidate**

University of Thessaly, Civil Engineering Department, Volos, Greece

- Title: Intelligent transport systems with usage of “big data” for management of sustainable mobility

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)

9/2006 – 11/2012

**Diploma in Civil Engineering**

University of Thessaly, Civil Engineering Department, Volos, Greece

- Field of Study: Transportation

## PERSONAL SKILLS

Mother tongue

Greek

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken Production	
English	C2	C2	C2	C2	C2
Postgraduate studies in English					
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
  - Programming language: MATLAB, Python, Fortran
  - General: AutoCAD, ArcGIS, ARRIBA, Adobe Photoshop, Microsoft Office (ECDL Certificate), CorelDraw, SPSS
- Other skills**
- 12/2016 – 02/2017 External Partner - Researcher, Continuing Vocational Training in Businesses, Hellenic Statistical Authority
  - 02/2011 – 04/2011 External Partner - Researcher, Population-Housing Census 2011, Hellenic Statistical Authority
- Driving license** Category B

ADDITIONAL INFORMATION

- Grants - Scholarships**
- Scholarship for Dissertation entitled “Simulation and impact assessment of innovative systems for urban freight distribution”, State Scholarships Foundation (IKY), NSRF (2014-2020). University of Thessaly, Volos, 24.04.2018-24.04.2021
  - Grant for Young Researchers Session, COST TU1305, European Commission, HORIZON 2020 University Milano Bicocca, Milan, Italy, 14-16.02.2018
  - Grant for Young Researchers Session, COST TU1305, European Commission, HORIZON 2020 Krakow University of Technology, Poland, 29-30.06.2017

- Participation in Scientific and Professional Associations**
- Member of the Technical Chamber of Greece

- Reviewer in Journals and Conferences**
- Conferences**
- CSUM2018

- Summer Schools / Seminars / Training Programs**
- 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
  - 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
  - Training Program “Urban and Transportation Planning”, ALLIANCE Project, Volos, Greece, 24-27.05.2016

PUBLICATIONS

## Theses - Dissertations

Karatsoli Maria, "Intelligent transport systems with usage of "big data" for management of sustainable mobility", PhD Thesis, Department of Civil Engineering, University of Thessaly (ongoing).

Karatsoli Maria, "Bluetooth-based travel times for automatic incident detection – A systematic description of the characteristics for traffic management purposes" Master Thesis, Chair of Traffic Engineering and Control, Technical University of Munich, December 2015.

Karatsoli Maria, "Road Safety- Implementation of legal-speed limits adjustment framework on existing road network", Diploma Thesis, Department of Civil Engineering, University of Thessaly, January 2012.

## Scientific Journals

1. Karatsoli Maria, Margreiter Martin, Spangler Matthias, 2016. "Simulation based Performance Test of Incident Detection Algorithms Using Bluetooth Measurements", *Transport and Telecommunication Journal*, 2016, Volume 17, Issue 4, Pages 267–273. DOI: 10.1515/tjt-2016-0023

## Conference presentations and publications in proceedings

2. Pavlyuk Dmitry, Karatsoli Maria, Nathanail Eftihia, 2019. "Exploring the Potential of Social Media Content for Detecting Transport-Related Activities". 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\\_13](https://doi.org/10.1007/978-3-030-12450-2_13)

3. 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](https://doi.org/10.1007/978-3-030-02305-8_79)

4. Karatsoli Maria, Nathanail Eftihia, 2019. "Investigating the Role and Potential Impact of Social Media on Mobility 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\\_31](https://doi.org/10.1007/978-3-030-02305-8_31)

5. Magginas Vissarion, Karatsoli Maria, Adamos Giannis, Nathanail Eftihia, 2019. "Campaigns and Awareness-Raising Strategies on Sustainable Urban Mobility". 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\\_32](https://doi.org/10.1007/978-3-030-02305-8_32)

6. Karatsoli Maria, Nathanail Eftihia, Adamos Giannis, 2018. "Studying the influence of social media on activity-travel behavior". *Proceedings of 5th Panhellenic Planning and Regional Development Conference*.

7. Karatsoli Maria, Nathanail Eftihia, 2018. "A Thorough Review of Big Data Sources and Sets Used in Transportation Research." 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\\_52](https://doi.org/10.1007/978-3-319-74454-4_52)

8. Karatsoli Maria, Margreiter Martin, Spangler Matthias, 2017. "Bluetooth-based travel times for automatic incident detection – A systematic description of the characteristics for traffic management purposes", *Transportation Research Procedia*, Volume 24, 2017, Pages 204-211, Elsevier. 3rd Conference on Sustainable Urban Mobility, Volos, Greece, 26-27 May 2016. <https://doi.org/10.1016/j.trpro.2017.05.109>

## Conference proceedings / presentations with abstract review

9. 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.

10. Karatsoli Maria, 2018. "Intelligent transport systems with usage of "big data" for management of sustainable mobility: Investigating the role of social media", *COST TU1305 Final Conference*, Milan, Italy, 14-16 February, 2018.

11. Karatsoli Maria, 2017. "Intelligent transport systems with usage of "big data" for management of sustainable mobility", *COST TU1305 Young Researchers Session*, Krakow, Poland, 29-30 June, 2017.

## Other presentations

12. Pavlyuk Dmitry, Karatsoli Maria, Nathanail Eftihia, 2018. "Exploring the Potential of Social Media

Content for Detecting Transport-Related Activities". ALLIANCE Final Conference, Riga, Latvia, 17 October, 2018.