

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Savas Geivanidis**
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Nationality Greek
Date of birth 21.08.1976
Gender Male

Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>December 2019 – Present</p> <p>Associate Professor</p> <p>Lectures on Internal Combustion Engines, Physical Processes Techniques, Hydrogen Technology and Applications, Solar systems, Renewable Energy Sources, Heating, ventilation and air conditioning</p> <p>Lab. of Internal Combustion Engines, Department of Mechanical Engineering, School of Engineering, International Hellenic University (IHU), Terma Magnesias, 62124 Serres, Greece</p> <p>Academia</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>February 2014 – December 2019</p> <p>Assistant Professor</p> <p>Lectures on Internal Combustion Engines, Physical Processes Techniques, Hydrogen Technology and Applications, Renewable Energy Sources, Heating, ventilation and air conditioning</p> <p>Lab. of Internal Combustion Engines, Department of Mechanical Engineering, School of Engineering, International Hellenic University (IHU), Terma Magnesias, 62124 Serres, Greece</p> <p>Academia</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>July 1999 – Present</p> <p>Senior researcher</p> <p>Vehicle emission measurement, simulation and inventorying of exhaust emissions from road transport, evaluation of alternative fuels and lubricants, support in lectures: Mechanical Engineering Laboratory, Experimental Methods of Energy Systems, Exercises on Internal Combustion Engines, Internal Combustion Engines</p> <p>Lab. of Applied Thermodynamics, Aristotle University, PO Box 458, 541 24, Thessaloniki, Greece</p> <p>Academia</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p>	<p>2002 – 2004</p> <p>Teaching associate</p> <p>Lectures on Internal Combustion Engines and Renewable Energy Sources</p> <p>Technical Educational Institute, Serres, Greece</p>

Type of business or sector | Academia

Dates | June 1998 - September 1998

Occupation or position held | Trainee

Main activities and responsibilities | Design and construction of a testing structure for the evaluation of layer creation parameters for 3d printing applications, programming and use of laser for cutting quartz and thin metal plates

Name and address of employer | Technical University of Munich, Lehrstuhl für Feingerätebau und Mikrotechnik, Boltzmannstr. 15, 85747 Garching, Munich, Germany

Type of business or sector | Academia

Dates | June 1997 – September 1997

Occupation or position held | Trainee

Main activities and responsibilities | Plant monitoring and maintenance, development of part and equipment supplier database

Name and address of employer | Steam Electric Plant of Amynteon, Public Power Corporation of Greece, Filotas, Greece

Type of business or sector | Electrical Power Industry

Education and training

Dates | 2000 to 2007

Title of qualification awarded | PhD Degree

Principal subjects/occupational skills covered | Vehicle exhaust emissions measurement
Title of the Thesis: Development of a Methodology for the Determination of Vehicle Emissions by Real Time Measurement

Name and type of organisation providing education and training | Mechanical Engineering Department, Aristotle University of Thessaloniki

Level in national or international classification | ISCED 6

Dates | 1994 - 1999

Title of qualification awarded | Diploma in Mechanical Engineering

Name and type of organisation providing education and training | Mechanical Engineering Department, Aristotle University of Thessaloniki

Level in national or international classification | ISCED 5

Personal skills and competences

Mother tongue(s) | **Greek**

Other language(s)

Self-assessment

European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user

(*) Common European Framework of Reference for Languages

Social skills and competences | - Team working in research projects with industrial partners, research institutions or the academia from EU member states.
- Working experience in different working environment and in different positions.
- Responsible for university lectures to engineering students.

Organisational skills and competences | Responsible for the quality assurance system in my current position

Technical skills and competences	<ul style="list-style-type: none"> - Experience in energy assessment in the transportation sector accumulated in relevant competitive research projects funded mainly by the European Commission and the industry - Training in energy assessment of buildings (January – February 2011, Technical Chamber of Greece) - Good command of quality control processes due to the experience acquired from the application of the quality assurance system of my organization. - Experience in the installation and operation of electronic and mechanical measuring equipment.
Computer skills and competences	<p>Through personal studying and in-use training, I have developed the following computer skills:</p> <ul style="list-style-type: none"> - Programming: Matlab™ (good), Visual Basic for Applications™ (good), Fortran (fair) - Database management systems: Microsoft Access (good) - Operating Systems: Microsoft Windows 95 - 8 (good), Linux (fair), MS-DOS (good) - Office Automation: Microsoft Office™ tools (Word, Excel, PowerPoint, Project, Visio) (good) - General: Website development (Macromedia Dreamweaver (good), Microsoft FrontPage™ (good)), AutoCAD™ (good), Development and administration of wired or wireless computer networks (good)
Artistic skills and competences	Guitar (mostly self taught)
Driving licence	Category A and B
Additional information	<p>PUBLICATIONS</p> <p><u>Journals</u></p> <p>Geivanidis S, Pistikopoulos P, Samaras Z., Effect on exhaust emissions by the use of methylcyclopentadienyl manganese tricarbonyl (MMT) fuel additive and other lead replacement gasolines, <i>Science of the Total Environment</i>, 2003 Apr 15; 305 (1-3): 129-41</p> <p>Geivanidis S, Samaras Z, Development of a dynamic model for the reconstruction of tailpipe emissions from measurements on a constant volume sampling dilution system, <i>Measurement Science and Technology</i>, 19, 2008, 015404, 11pp</p> <p>Joumard R, Laurikko J, Le Han T, Geivanidis S, Samaras Z, Oláh Z, Devaux P, André J M, Cornelis E, Rouveiolles P, Lacour S, Prati M V, Vermeulen R, Zallinger M, Accuracy of exhaust emissions measurements on chassis dynamometer, <i>Journal of Air and Waste Management Association</i>, 59:6, 695-703, 2009</p> <p>Bouilly J., Mohammadi A., Iida Y., Hashimoto H., Geivanidis S., Samaras Z., Biodiesel Stability and its Effects on Diesel Fuel Injection Equipment, <i>SAE Technical Paper 2012-01-0860</i>, 2012, doi:10.4271/2012-01-0860</p> <p>Rose, K., Hamje, H., Jansen, L., Fittavolini, C., Clark, R., Cardenas Almena, M. D., Katsaounis, D., Samaras, C., Geivanidis, S., Samaras, Z., "Impact of FAME Content on the Regeneration Frequency of Diesel Particulate Filters (DPFs)," <i>SAE Int. J. Fuels Lubr.</i> 7(2), 2014, doi:10.4271/2014-01-1605.</p> <p>Vouitsis, I., Geivanidis, S., Samaras, Z., Liquid biofuels in Greece—Current status in production and research, <i>Journal of Renewable and Sustainable Energy</i>, 6, 022703 (2014), http://dx.doi.org/10.1063/1.4873126</p> <p>Geivanidis S., Saltas E., Samaras Z., A novel versatile methodology for the assessment of the effects of alternative fuels on engine durability, <i>Transportation Research Procedia</i>, Volume 14, 2016, Pages 1097–1103</p> <p>Saltas E., Bouilly J., Geivanidis S., Samaras Z., Mohammadi A., Iida Y., Investigation of the effects of biodiesel aging on the degradation of common rail fuel injection systems, <i>Fuel</i>, Volume 200, 15 July 2017, Pages 357-370</p> <p>Fragkiadoulakis P., Geivanidis S., Samaras Z, Modeling a resistive soot sensor by particle deposition mechanisms, <i>Journal of Aerosol Science</i>, Volume 123, 2018, Pages 76-90, https://doi.org/10.1016/j.jaerosci.2018.06.005</p> <p><u>Papers in conferences with reviewers</u></p> <p>Geivanidis S., Samaras Z., Investigation of the emission degradation of Euro III and Euro IV gasoline vehicles, <i>Proceedings of the 14th International Transport and Air Pollution Symposium (TAP 2005)</i>, Graz, Austria, 2005</p>

Joumard R., J. Laurikko, S. Geivanidis, Z. Samaras, Z. Oláh, M. Weilenman, JM. André, E. Cornelis, M. Gribe, S. Lacour, MV. Prati, R. Vermeulen & M. Zallinger (2006): Accuracy of exhaust emissions measurements on vehicle bench. 2nd conf. Environment & Transport, incl. 15th conf. Transport and Air Pollution, 12-14 June 2006, Reims, France. Proceedings, actes Inrets, n°107, vol. 1, Arcueil, France, p. 119-126

Fontaras G., Geivanidis S., Samaras Z., Development and evaluation of hybrid vehicle emission and fuel consumption factors based on measurements over real world cycles, Proceedings of the 15th International Transport and Air Pollution Symposium (TAP 2006), Reims, France, 2006

Joumard R., J. Laurikko, S. Geivanidis, Z. Samaras, Z. Oláh, M. Weilenman, JM. André, E. Cornelis, M. Gribe, S. Lacour, MV. Prati, R. Vermeulen & M. Zallinger (2006): Accuracy of exhaust emissions measurements on vehicle bench. Poster, FISITA 2006, 22-27 October, 2006, Yokohama, Japan

Joumard R, André JM., Rapone M., Zallinger M., Kljun N., André M., Samaras Z., Roujol S., Laurikko J., Weilenmann M., Markewitz K., Geivanidis S., Ajtay D., Paturel L.: Emission factor modelling for light duty vehicles within the European ARTEMIS model. Proceedings of the 16th International Conference Transport and Air Pollution (TAP2008), 16-17 June 2008, Graz, Austria

Kousoulidou M., Ntziachristos L., Gkeivanidis S., Franco V., Samaras Z., Dilara P., Use of Portable Emissions Measurement System (PEMS) for Validation and Development of Passenger Car Emission Factors, Proceedings of the 18th International Conference Transport and Air Pollution (TAP2008), May 18-19, 2010, Duebendorf, Switzerland

Kousoulidou M., Ntziachristos L., Gkeivanidis S., Samaras Z., Franco V., Dilara P., Validation of the COPERT road emission inventory model with real-use data, US EPA 19th Annual International Emission Inventory Conference "Emissions Inventories - Informing Emerging Issues", San Antonio (2010)

Σάλας Η., Σ. Γκεϊβανίδης Σ., Σαμαράς Ζ. (2014) Μελέτη της Επίδρασης Βιοντίζελ 1ης Γενιάς και Υβριδικού Βιοκαυσίμου 2ης Γενιάς στο Σύστημα Έγχυσης Σύγχρονου Πετρελαιοκινητήρα, 10ο Εθνικό Συνέδριο για τις Ήπιες Μορφές Ενέργειας, 26-28 Νοεμβρίου, Θεσσαλονίκη, Τόμος Β, σελ. 353-362

Fragkiadoulakis P., Mertzis D., Geivanidis S., Samaras Z., "Prediction of resistive soot sensor behavior in diesel exhaust via 3D simulation of soot deposition", 6th BETA CAE International Conference, June 10, 2015, Thessaloniki, Greece

Kontses D., Geivanidis S., Samaras Z., Frangkiadoulakis P., Challenges and error propagation of PM sensor-based DPF diagnostics, Transport Research Area Conference, 2018, Venna, Austria

Kontses D., Geivanidis S., Samaras Z., Review of Legislative Requirements and Methods for the Estimation of PN/PM Emissions for Advanced Light-duty OBD Applications, 23rd Transport and Air Pollution Conference, Thessaloniki, 2019 (accepted)

Presentations in conferences

Geivanidis S., Samaras Z., Bezergianni S., Bouilly J., Mohammadi A., Methodology for the Investigation of Biodiesel Effects on Critical Diesel Engine Components, International Conference on Biofuels for Sustainable Development of Southern Europe, 19-20 November 2012, Thessaloniki, Greece, www.bio4sud.gr

Geivanidis S., Steininger N., Update and technical challenges for European and global OBD requirements, 5th International Conference, Advanced Automotive Diagnostic Systems, 22 - 24 April 2013, Wiesbaden, Germany

Samaras Z., Geivanidis S., Vonk W., Testing of soot sensors for DPF failure monitoring. In 17th ETH Conference on Combustion generated nanoparticles, Zürich, Switzerland, 23–26 June 2013.

Samaras Z., Geivanidis S., Vonk W., Andersson J., Sindano H., Hausberger S., Stadlhofer W., Perujo A., Carriero M., Evaluation of soot sensors for DPF failure monitoring, F2014-CET-084, FISITA World Automotive Congress 2014, 2-6 June 2014, Maastricht, The Netherlands

Rose K., Hamje H., Katsaounis D., Samaras C, Geivanidis S. (presenting author), Samaras Z., Impact of FAME content on the regeneration of diesel particulate filters (DPF), F2014-CET-103, FISITA World Automotive Congress 2014, 2-6 June 2014, Maastricht, The Netherlands

Geivanidis S., PM detection technologies for Euro VI heavy duty diesel PM OBD, 6th International Conference Advanced Automotive Diagnostic Systems, IQPC, 28 – 29 April 2014 | Dormero Hotel, Stuttgart, Germany

Geivanidis S., Samaras Z., Sindano H., Anderson J., Vonk W., PM OBD monitoring requirements in EU and US, Different challenges due to type-approval testing requirements and vehicle fleet characteristics, Diesel Powertrains 3.0, International Conference, October 28th-29th, 2014, Montabaur, Germany

Gkantonas S., Fragkiadoulakis P., Geivanidis S., Samaras Z., "Analysis of the exhaust flow inside a resistive soot sensor tip and simulation model", 2016 ANSYS Convergence Conference, June 30, 2016, Athens, Greece

Γκειβανίδης Σ., Σύγχρονα συστήματα έγχυσης καυσίμου, επίδραση βιοκαυσίμων, τεχνολογίες βελτίωσης καυσίμων, 4ο ετήσιο συνέδριο αγοτεχνολογίας – Η Ελληνική Γεωργία με το Βλέμμα στο Μέλλον, Αμερικανική Γεωργική Σχολή, 20 Νοεμβρίου 2015, Θεσσαλονίκη, Ελλάδα

Geivanidis S., Correction of transient emission signal dynamics for in-lab and RDE measurements, 4th International Conference, Real Driving Emissions, IQPC, 25 - 28 October 2016, Berlin, Germany

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Kontses D., Geivanidis S., Samaras Z., Challenges of resistive PM sensor-based DPF diagnostics, SAE 2017 OBD Symposium, Europe, Torino, 27-02-2017

Γκειβανίδης Σ., Οδικές Μεταφορές: επιπτώσεις στο περιβάλλον, σκάνδαλα, προβληματισμοί και λύσεις, 7ο Eco Festival Serres, 5 Ιουνίου 2018, Σέρρες

Kontses D., Geivanidis S., Samaras Z., Review of Legislative Requirements and Methods for the Estimation of PN/PM Emissions for Advanced Light-duty OBD Applications, 23rd Transport and Air Pollution Conference, Thessaloniki, 2019 (accepted)

Chapters in books

Samaras Z., Vouitsis I., Geivanidis S., Trends – Compression Ignition, invited in Encyclopedia of Automotive Engineering, David Crolla, David Foster and Toshio Kobayashi (eds), John Wiley & Sons, Ltd and FISITA, 13 January 2013

Chariton Kouridis, Christos Samaras, Dieter Hassel, Giorgos Mellios, Ian McCrae, John Hickman, Karl-Heinz Zierock, Leonidas Ntziachristos, Mario Keller, Martin Rexeis, Michel Andre, Morten Winther, Nikolaos Pastramas, Norbert Gorissen, Paul Boulter, Petros Katsis, Robert Joumard, Rudolf Rijkeboer, Savas Geivanidis, Stefan Hausberger, EMEP/EEA air pollutant emission inventory guidebook 2016 – Update Jul. 2018, European Environmental Agency, Copenhagen, Denmark

Projects for the European Commission

Ntziachristos L., Turlou P. M., Samaras Z., Geivanidis S., Andrias A.: National and central estimates for air emissions from road transport, Technical report No 74, European Environmental Agency, Copenhagen, Denmark, 60 p., May 2002

Geivanidis S., Samaras Z. (2004b): Investigation of the emission degradation of gasoline vehicles. LAT Report n° 0415, Thessaloniki, Greece, 34 p.

Geivanidis S., Samaras Z. (2004b): Effect of sampling parameters on emission measurements LAT Report n° 0416, Thessaloniki, Greece, 52 p.

Geivanidis S., Samaras Z. (2005): Speed dependent emission factors for Euro I and onwards petrol and diesel passenger cars. LAT report n° 0417, Univ. Thessaloniki, Greece, 41 p.

Samaras Z., N. Kyriakis, S. Geivanidis, G. Mellios, M. Zallinger & S. Hausberger (2005): Influence of the Technical Characteristics of the Vehicles on their Real World Emission Behavior. TUG report, Graz, Austria, 17 p.)

D.A.M.M. Elst, N.L.J. Gense, P. Hendriksen, I. Pollak, J. Kis, S. Geivanidis, H. Steven, Artemis WP500 – Final report, ARTEMIS project deliverable D5, February 2005, 37 p.

Joumard R., André M., Laurikko J., Le Anh T., Geivanidis S., Samaras Z., Oláh Z., Devaux P., André J. M., Cornelis E., Rouveïrolles P., Lacour S., Prati M. V., Vermeulen R., Zallinger M., Accuracy of exhaust emissions measurements on vehicle bench - Artemis 310 report - Deliverable 2, Bron, France, Report n° LTE 0522, March 2006

Joumard R., André M., Ajtay D., André J.M., Boulanger L., Cornelis E., Devaux P., Geivanidis S., Lacour S., Laurikko J., Le Anh T., Olah Z., Prati M.V., Samaras Z., Vermeulen R., Emission factor

modelling and database for light vehicles - Artemis deliverable 3, Bron, France, Report n° LTE 0523, 2005

Sam van Goethem, Coen Obdeijn, Arjan Stuiver, Maarten Dam, Robin Vermeulen, Savas Geivanidis, Zissis Samaras, Dimitris Tsokolis, Pavlos Fragkiadoulakis, Fuel consumption meter requirements for light-duty vehicles, Final report. Lot 4, Eco-innovation techniques in the field of the automotive industry – Study, EU Publication, Catalogue number: NB-01-13-853-EN-N, 27/2/2014

Geivanidis, Savas; Sindano, Hector; Vermeulen, Robin; Vonk, Willar; Samaras, Zissis; Andersson, Jon; Noble, Andy, Technical feasibility of different regulatory OBD threshold limits (OTL) for Euro 6 (LD) vehicles , EU Publications, ISBN 978-92-79-39336-5, DOI: 10.2769/32688 , 8/4/2015

Hausberger, Stefan; Stadhofer, Werner; Geivanidis, Savas; Vermeulen, Robin; Vonk, Willar; Samaras, Zissis, MAC performance test procedure: Co-ordination of the pilot test phase and follow up towards the drafting of the regulatory text : final report – Study, EU Publications, ISBN: 978-92-79-46356-3, DOI: 10.2873/820839, 16/7/2015

Leonidas Ntziachristos, Willar Vonk, Giorgos Papadopoulos, Pim van Mensch, Savas Geivanidis, Giorgos Mellios, Giannis Papadimitriou, Heinz Steven, Mitch Elstgeest, Norbert Ligterink, Anastasios Kontses, Effect study of the environmental step Euro 5 for L-category vehicles, EU Publications, ISBN: 978-92-79-70203-7, DOI: 10.2873/397876, 6/9/2017

Projects for the industry

Samaras Z., Geivanidis S., Pistikopoulos P. (2000b), Measurement of emissions from conventional and catalyst equipped vehicles with the use of gasoline with and without MMT, , LAT Report n° 2011, Thessaloniki, Greece, 23 p.

Samaras Z., Geivanidis S. (2002b), Measurement of emissions and engine performance by the use of the BP "additivated" diesel, LAT Report n° 0217, Thessaloniki, Greece, 99 p.

Γκειβανίδης Σ., Σαμαράς Ζ., (2000β), Μέτρηση των εκπομπών ενός επιβατικού οχήματος Diesel με και χωρίς Biodiesel, Έκθεση προς την εταιρία εμπορίας πετρελαιοειδών ΕΛΙΝΟΙΛ, Έκθεση Εργαστηρίου Εφαρμοσμένης Θερμοδυναμικής αρ. 2012, Οκτώβριος 2000

Γκειβανίδης Σ., Πιστικόπουλος Π., Σαμαράς Ζ. (2004β), Διερεύνηση της Αποτελεσματικότητας Βελτιωτικών Προσθέτων Βενζίνης, Έκθεση Εργαστηρίου Εφαρμοσμένης Θερμοδυναμικής αρ. 0411, Θεσσαλονίκη, 99 σελίδες

Geivanidis S. Samaras Z., Evaluation and Assessment of Proposed EOBD Light-Duty Vehicle Emission Thresholds (for ACEA), Report No: 11.RE.0042.V2, Thessaloniki, June 2011

Reviewer in scientific journals

- Journal of the Air & Waste Management Association
- Journal of Cleaner Production
- Science of the Total Environment
- Society of Automotive Engineers
- Transport Research Arena Conference

Thessaloniki, 08/02/2021

Savas Geivanidis