

# Europass curriculum vitae



## Personal information

Surname(s) / First name(s) **Karakitsios Spyridon**  
Address(es) **Thessaloniki, Greece**  
Telephone(s) **Mobile: 0030 6947803592**  
E-mail(s) **spyros@eng.auth.gr**  
Nationality(-ies) **Greek**  
Date of birth **12/05/1975**  
Gender **Male**

## Desired employment / Occupational field **Biochemical and environmental engineering**

### Work experience

Dates	<b>1/4/2011- to date</b>
Occupation or position held	<b>Post-Doctoral researcher</b>
Main activities and responsibilities	<b>Research activities- Contribution to scientific projects (see Annex 2)</b>
Name and address of employer	<b>CERTH/CPERI and Chemical Engineering department of AUTH, Thessaloniki, Greece</b>
Type of business or sector	<b>Research Institute - University</b>
Dates	<b>3/12/2007- 31/3/2011</b>
Occupation or position held	<b>Post-Doctoral researcher</b>
Main activities and responsibilities	<b>Research activities- Contribution to scientific projects (see Annex 2)</b>
Name and address of employer	<b>JRC, ISPRA (VA), ITALY IHCP, CAT unit</b>
Type of business or sector	<b>Research Institute</b>
Dates	<b>1/09/2002 -30/11/2007</b>
Occupation or position held	<b>Contract agent – MSc (2002-2004) and PhD (2004-2008) student</b>
Main activities and responsibilities	<b>Research activities-Contribution to scientific projects (see Annex 2)</b>
Name and address of employer	<b>Pilidis George, Associate Professor, University of Ioannina, Ioannina, Greece</b>
Type of business or sector	<b>University</b>

## **Education and training**

Dates	<b>2004-2008 (22/5/2008)</b>
Title of qualification awarded	<b>PhD</b>
Principal subjects/Occupational skills covered	<b>Assessment of population exposure to benzene/ Analytical techniques of environmental samples, air pollution modelling, PBPK modelling.</b>
Name and type of organisation providing education and training	<b>Department of Biological Applications and Technologies, University of Ioannina, Greece</b>
Level in national or international classification	<b>Level 6</b>
Dates	<b>2002-2004</b>
Title of qualification awarded	<b>Master of Science (post-graduate specialization title)</b>
Principal subjects/Occupational skills covered	<b>Parameters controlling benzene in ambient air / Environmental analytical techniques, modelling techniques.</b>
Name and type of organisation providing education and training	<b>Department of Chemistry, University of Ioannina, Greece</b>
Level in national or international classification	<b>Level 6</b>
Dates	<b>1998-2002</b>
Title of qualification awarded	<b>Bachelor degree (8.5/10, excellent, 1<sup>st</sup> among 60 students)</b>
Principal subjects/Occupational skills covered	<b>Physics of atmosphere / air pollution modelling</b>
Name and type of organisation providing education and training	<b>Department of Physics, University of Ioannina, Greece</b>
Level in national or international classification	<b>Level 5</b>
Dates	<b>1994-1998</b>
Title of qualification awarded	<b>Bachelor degree</b>
Principal subjects/Occupational skills covered	<b>In Hospital cure-treatment / Human biology, anatomy and physiology</b>
Name and type of organisation providing education and training	<b>Department of Nursing, Technological Institution of Ioannina, Greece</b>
Level in national or international classification	<b>Level 5</b>

**Personal skills and competences**

Mother tongue(s)

**Greek**

Other language(s)

*Self-assessment*

*European level (\*)*

**English**

**Italian**

**Romanian**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
A2	A2	A1	A1	A1
A2	A2	A1	A1	A1

*(\*) Common European Framework of Reference (CEF) level*

Social skills and competences

**P.R in advertising company (G.P.M S.A.)**

Organisational skills and competences

**Administrative-Financial-Personnel manager in advertising company (G.P.M S.A.)**

Technical skills and competences

**PC hardware engineering**

Computer skills and competences

**Microsoft Office package and several other Windows Applications including Image processing, Neural Networks, Statistics, Environmental and Biology-Based Modelling, acsIX.**

Other skills and competences

**Business, financial and project management**

Driving licence(s)

**Driving licence since 1994**

**Additional information**

Include here any other information that may be relevant, for example contact persons, references, etc. (Remove heading if not relevant, see instructions)

**Annexes**

1. List of publications in peer-reviewed journals (24)
2. List of presentations to scientific conferences (14)
3. List of contribution to scientific projects (9)

Annexes:  
Annex 1

List of publications in peer-reviewed journals

1. Sarigiannis, D.A., Karakitsios, S.P., M.P. Antonakopoulou, Gotti, A. (2012) Exposure analysis of accidental release of mercury from compact fluorescent lamps (CFLs), *Science of the Total Environment*, in press.
2. Sarigiannis, D.A., Karakitsios, S.P., Gotti, A., Liakos, I.L. and Katsoyiannis, A. (2011) Exposure to major volatile organic compounds and carbonyls in European indoor environments and associated health risk, *Environment International*, 37, 743-765.
3. Sarigiannis, D. and Karakitsios, S. (2011) Perinatal Exposure to Bisphenol A: The Route of Administration Makes the Dose, *Epidemiology*, 22, S172.
4. Sarigiannis, D., Gotti, A. and Karakitsios, S. (2011) A Computational Framework for Aggregate and Cumulative Exposure Assessment, *Epidemiology*, 22, S96-S97.
5. Vlachogianni, A., Kassomenos, P., Karppinen, A., Karakitsios, S. and Kukkonen, J. (2011) Evaluation of a multiple regression model for the forecasting of the concentrations of NO<sub>x</sub> and PM<sub>10</sub> in Athens and Helsinki, *Science of the Total Environment*, 409, 1559-1571.
6. Paschalidou, A.K., Karakitsios, S., Kleanthous, S. and Kassomenos, P.A. (2011) Forecasting hourly PM<sub>10</sub> concentration in Cyprus through artificial neural networks and multiple regression models: Implications to local environmental management, *Environmental Science and Pollution Research*, 18, 316-327.
7. Kassomenos, P., Petrakis, M., Sarigiannis, D., Gotti, A. and Karakitsios, S. (2011) Identifying the contribution of physical and chemical stressors to the daily number of hospital admissions implementing an artificial neural network model, *Air Quality, Atmosphere and Health*, 1-10.
8. Kassomenos, P., Vardoulakis, S., Borge, R., Lumberras, J., Papaloukas, C. and Karakitsios, S. (2010) Comparison of statistical clustering techniques for the classification of modelled atmospheric trajectories, *Theoretical and Applied Climatology*, 102, 1-12.
9. Karakitsios, S.P., Kassomenos, P.A., Sarigiannis, D.A. and Pilidis, G.A. (2010) Exposure modeling of benzene exploiting passive-active sampling data, *Environmental Modeling and Assessment*, 15, 283-294.
10. Sarigiannis, D.A., Karakitsios, S.P., Gotti, A., Papaloukas, C.L., Kassomenos, P.A. and Pilidis, G.A. (2009) Bayesian algorithm implementation in a real time exposure assessment model on benzene with calculation of associated cancer risks, *Sensors*, 9, 731-755.
11. Sarigiannis, D., Karakitsios, S. and Gotti, A. (2009) Mechanistic Full Chain Approach for ETS Carcinogenicity Impact Assessment in the EU, *Epidemiology*, 20, S88.
12. Pilidis, G.A., Karakitsios, S.P., Kassomenos, P.A., Kazos, E.A. and Stalikas, C.D. (2009) Measurements of benzene and formaldehyde in a medium sized urban environment. Indoor/outdoor health risk implications on special population groups, *Environ Monit Assess*, 150, 285-294.
13. Kassomenos, P., Karakitsios, S. and Pilidis, G. (2009) Daily variation of traffic emissions in Athens, Greece, *International Journal of Environment and Pollution*, 36, 324-335.
14. Kassomenos, P., Papaloukas, C., Petrakis, M. and Karakitsios, S. (2008) Assessment and prediction of short term hospital admissions: the case of Athens, Greece, *Atmospheric Environment*, 42, 7078-7086.
15. Kassomenos, P., Karayannis, A., Panagopoulos, I., Karakitsios, S. and Petrakis, M. (2008) Modelling the dispersion of a toxic substance at a workplace, *Environmental Modelling and Software*, 23, 82-89.
16. Karakitsios, S., Sarigiannis, D., Gotti, A., Kassomenos, P. and Pilidis, G. (2008) An Integrated Exposure and Risk Model for Benzene in the Ambient Air, *Epidemiology*, 19, S356.

17. Karakitsios, S.P., Papaloukas, C.L., Kassomenos, P.A. and Pilidis, G.A. (2007) Assessment and prediction of exposure to benzene of filling station employees, *Atmospheric Environment*, 41, 9555-9569.
18. Karakitsios, S.P., Delis, V.K., Kassomenos, P.A. and Pilidis, G.A. (2007) Contribution to ambient benzene concentrations in the vicinity of petrol stations: Estimation of the associated health risk, *Atmospheric Environment*, 41, 1889-1902.
19. Kassomenos, P., Karakitsios, S. and Pilidis, G. (2006) Assessment and prediction of benzene concentrations in a street canyon using a variety of models, in the means of environmental management purposes, *Global NEST Journal*, 8, 265-271.
20. Kassomenos, P., Karakitsios, S. and Papaloukas, C. (2006) Estimation of daily traffic emissions in a South-European urban agglomeration during a workday. Evaluation of several "what if" scenarios, *Sci Total Environ*, 370, 480-490.
21. Karakitsios, S.P., Papaloukas, C.L., Kassomenos, P.A. and Pilidis, G.A. (2006) Assessment and prediction of benzene concentrations in a street canyon using artificial neural networks and deterministic models: Their response to "what if" scenarios, *Ecological Modelling*, 193, 253-270.
22. Karakitsios, S.P., Hadjidakis, I., Kassomenos, P.A. and Pilidis, G.A. (2006) Development of an artificial neural network to predict benzene concentrations in a street canyon, *Fresenius Environmental Bulletin*, 15, 424-430.
23. Pilidis, G.A., Karakitsios, S.P. and Kassomenos, P.A. (2005) BTX measurements in a medium-sized European city, *Atmospheric Environment*, 39, 6051-6065.
24. Kassomenos, P.A., Karakitsios, S.P. and Pilidis, G.A. (2005) A methodology to estimate benzene concentrations in a town through a traffic model, *Sci Total Environ*, 347, 272-281.
25. Kassomenos, P.A., Karakitsios, S.P. and Pilidis, G.A. (2004) A simple semi-empirical approach to modeling benzene concentrations in a street canyon, *Atmospheric Environment*, 38, 6073-6078.

## Annex 2

### List of presentations to scientific conferences

#### 1. D. Sarigiannis, S. Karakitsios, Alberto Gotti

Biological Equivalent-based risk assessment - the case of BPA and HCHO  
 SOT's 51st Annual Meeting  
 San Francisco 11-15/3/2012, USA

#### 2. D. Sarigiannis, S. Karakitsios, Alberto Gotti

DEHP exposure assessment  
 SOT's 51st Annual Meeting  
 San Francisco 11-15/3/2012, USA

#### 3. D. Sarigiannis, S. Karakitsios, Alberto Gotti

The exposome approach for assessing the risks imposed by selected volatile contaminants of environmental tobacco smoke (ETS)  
 SOT's 51st Annual Meeting  
 San Francisco 11-15/3/2012, USA

#### 4. D. Sarigiannis, S. Karakitsios, Alberto Gotti

A full chain mechanistic approach for exposure assessment from multiple sources in indoor environments  
 2011 ISEE Conference  
 Baltimore 23-27/10/2011, USA

**5. D. Sarigiannis, S. Karakitsios, Alberto Gotti**

A tiered approach for aggregate exposure assessment  
2011 ISEE Conference  
Baltimore 23-27/10/2011, USA

**6. D. Sarigiannis, S. Karakitsios, Alberto Gotti**

A bottom-up approach for assessing exposure to Environmental Tobacco Smoke (ETS)  
2011 ISEE Conference  
Baltimore 23-27/10/2011, USA

**7. D. Sarigiannis, S. Karakitsios, Alberto Gotti**

Assessment of BPA exposure during pregnancy and multiple exposure routes  
2010 Joint Conference of International Society of Exposure Science & International Society for Environmental Epidemiology (ISEE-ISES)  
Seoul, 28/8-1/9/2010, Korea

**8. D. Sarigiannis, S. Karakitsios, Alberto Gotti**

A mechanistic approach for assessing Bisphenol A internal doses for infants implementing a breast feeding PBTK model  
2009 ISES Annual Conference  
Minneapolis 1-5/11/2009, USA

**9. S. Karakitsios, D. Sarigiannis, A. Gotti, P. Kassomenos, G. Pilidis.**

An integrated exposure model for benzene. Application in a medium sized Southeastern European city  
2008 Joint ISEE-ISEA Conference,  
Pasadena (California), 12-16/10/2008, USA

**10. Pilidis G., Karakitsios S., Kassomenos P.**

Benzene risk assessment evaluation due to an urban filling station operation  
*Protection and Restoration of the Environment*,  
Kefalonia, 30/6-3/7/08, Greece

**11. G. Pilidis, S. Karakitsios, Margarita A. Papatheodorou**

Benzene exposure of several population groups in a medium sized Southeastern European city  
14<sup>th</sup> international Symposium on Environmental Pollution and its impact on life in the Mediterranean Region, Seville, 10-14/10/2007, Greece

**12. S. Karakitsios, C. Papaloukas, G. Pilidis, P. Kassomenos**

Development of an ANN to estimate traffic emissions in Athens, Greece  
10<sup>th</sup> International Conference on harmonization within Atmospheric Dispersion Modelling for Regulatory Purposes,  
Crete, 17-20/10/2005, Greece

**13. G. Pilidis, S. Karakitsios, P. Kassomenos**

Description of the specific conditions that lead to high levels of BTX compounds in a medium sized city of North-Western Greece  
13<sup>th</sup> international Symposium on Environmental Pollution and its impact on life in the Mediterranean Region,  
Thessaloniki, 8-12/10/2005, Greece

**14. S. Karakitsios, G. Pilidis, P. Kassomenos**

Assessment and prediction of benzene concentrations in a street canyon using an artificial neural network and a deterministic model. Their response to 'what if' scenarios  
9<sup>th</sup> International conference on Environmental Science and Technology,  
Rhodes Island, 1-3/8/2005, Greece

### Annex 3

#### List of contribution to scientific projects

1. TAGS - Tiered Aggregate Exposure assessment of Chemical Substances) (CEFIC-LRI, 2010). Budget: 400.000 €
2. INTERA - Integrated Exposure for Risk Assessment in Indoor Environments – (CEFIC-LRI, 2010). Budget: 400.000 €
3. TRANSPHORM- Transport Related Air Pollution and Health Impact (FP7 – Large Scale Project, 2010). Budget: 7.000.000 €
4. HEREPLUS- Health Risk of Environmental Pollution Levels in Urban Systems (FP 7, 2008). Budget: 2.000.000 €
5. CAIR4HEALTH – Clean Air for Health (FP 6, 2007). Budget: 1.000.000 €
6. HEIMTSA - Health and Environment Integrated Methodology and Toolbox for Scenario Assessment (FP6, Integrative Project). Budget: 5.000.000 €
7. SMAQ - Satellite-assisted Management of Air Quality (LIFE-Environment, 2005). Budget: 2.000.000 €
8. Human exposure to air pollution (Greek Ministry of Education – Pythagoras frame, 2004) Budget: 50.000,00 €
9. Air pollution control in corporation to traffic regulation measures in the city of ioannina (Municipality of ioannina, 2001) Budget: 13.200 €