

## CURRICULUM VITAE

### Sevasti – Kiriaki Zervou

**Date and place of Birth:** August 3th, 1986, Rhodes - Greece

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### Education

#### *Dec. 2011 – Today*

##### **Ph. D. Student of Chemistry**

Department of Chemistry, National and Kapodistrian University of Athens

*Ph.D. Dissertation:*

*“Study and determination of Cyanotoxins in water samples”*

in collaboration with NCSR Demokritos, Institute of Nanoscience and Nanotechnology, Laboratory of Nanomaterial-Based Catalytic-Photocatalytic Processes and Environmental Analysis  
Supervised by Dr. A. Hiskia and Professor Dr. A. Calokerinos.

#### **Oct. 2009 – Nov. 2011**

##### **M.Sc. in Analytical Chemistry – Quality Control**

Department of Chemistry, National and Kapodistrian University of Athens *Grade 9.3 in a scale of 10*

*M.Sc Dissertation:*

*“Determination of Pesticides and Cyanotoxins in water with solid phase extraction and liquid chromatography – tandem mass spectrometry techniques (SPE, LC-MS/MS)”*

in collaboration with NCSR Demokritos, Laboratory of Catalytic and Photocatalytic Processes (Solar Energy-Environment), Supervised by Professor Dr. A. Calokerinos and Dr. A. Hiskia.

#### **Sep. 2004 - Mar. 2009**

##### **B.Sc. in Chemistry**

Department of Chemistry, National and Kapodistrian University of Athens *Grade 6.7 in a scale of 10*

*B.Sc Dissertation:*

*“Method development and validation for determination of pesticides in water with SPE, HPLC-UV and comparison with ELISA technique”*

in collaboration with NCSR Demokritos, Laboratory of Catalytic and Photocatalytic Processes (Solar Energy-Environment), Supervised by Dr. A. Hiskia and Dr. N. Thomaidis.

## Experience

### Sep. 2012 – Today

NCSR Demokritos, Institute of Physical Chemistry, Laboratory of Environmental Analysis

Analyst at the accredited according to ISO 17025, Laboratory of Environmental Analysis of NCSR “Demokritos”

### May 2008 – Today

NCSR Demokritos, Institute of Physical Chemistry, Laboratory of Catalytic and Photocatalytic Processes (Solar Energy-Environment) *renamed as* Institute of Nanoscience and Nanotechnology, Laboratory of Nanomaterial-Based Catalytic-Photocatalytic Processes and Environmental Analysis, Institute of Nanoscience and Nanotechnology

#### Method Development and Sample Analysis for Determinations such as:

- ♦ Cyanotoxins in scum (cyanobacterial cells), surface and drinking water with SPE, LC-ESI-MS/MS
- ♦ Pesticides and other organic micropollutants in surface and drinking water with SPE, HPLC-UV and LC-APCI-MS/MS
- ♦ Polycyclic Aromatic Hydrocarbons (PAHs) in surface and drinking water with SPE, HPLC-FL & LC-APPI-MS/MS
- ♦ Hydroquinone in air - filters with HPLC-UV
- ♦ Polychlorinated biphenyls (PCBs) in water, soil and wood with SPME, GC-ECD and in transformer oils with SPE, GC-ECD
- ♦ Pentachlorophenol (PCP) in soil with GC-ECD
- ♦ 2-Methylisoborneol (MIB) and Geosmin in water with SPME, GC-MS
- ♦ Odors in water, soil, wood and plaster with SPME, GC-MS

### Dec. 2007 – Apr. 2008

**Practical Training – Internship** (Program ΕΠΕΑΕΚ II of National and Kapodistrian University of Athens)

NCSR Demokritos, Institute of Physical Chemistry, Laboratory of Catalytic and Photocatalytic Processes (Solar Energy-Environment)

#### Occupation with Analytical Techniques such as:

- ♦ Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS)
- ♦ Gas Chromatography – Mass Spectrometry (GC-MS)
- ♦ Liquid Chromatography – Ultra Violet detector (HPLC-UV)
- ♦ Gas Chromatography – Electron Capture Detector (GC-ECD)
- ♦ Enzyme-Linked Immune-Sorbent Assay (ELISA)
- ♦ Solid Phase Extraction (SPE)
- ♦ Solid Phase Micro-extraction (SPME)

## Additional Skills – Qualifications

### ♦ LANGUAGES

English: Fluently – (ECPE) Proficiency of the University of Michigan

### ♦ COMPUTING

CertiLab Core - Primary (Windows XP, Word XP, Excel XP, Access XP, Power Point XP, Internet-Outlook Exp. 6.0)

## Seminars

- ♦ «Analytical Technics High Performance Liquid Chromatography (HPLC)» of the company Rigas Labs S.A., 12 October, 2010, Athens, Greece
- ♦ «Laboratory Information Management Systems (LIMS)» of the company Rigas Labs in corporation with Thermo Fisher Scientific, 12 May 2011, Athens, Greece
- ♦ «Special Issues ISO/IEC 17025: Validation-Verification, Uncertainty, Calibration, Internal quality control» of the company Priority, 8 – 9 November, 2012, Athens, Greece

## Publications

- ♦ Triantafyllos Kaloudis , Sevasti-Kiriaki Zervou , KaterinaTsimeli, Theodoros Triantis, Theodora Fotiou, Phani Miskaki, Anastasia Hiskia «Determination of Microcystins (cyanobacterial toxins) in water by LC-MS/MS. Monitoring of lake Marathonas, a water reservoir of Athens, Greece», Journal of Hazardous Materials (2013) Vol. 263P, p.p.105-115

## Conferences

- ♦ S.-K. Zervou, C. Christophoridis, T. Kaloudis, T. Triantis, A. Hiskia, «Development and optimization of an *spe*, *lc-ms/ms* method for the simultaneous determination of 24 pesticides in water using experimental design», 8<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment and 14<sup>th</sup> Symposium on Chemistry and Fate of Modern Pesticides, 18-21 September, 2014, Ioannina, Greece (Oral presentation)
- ♦ C. Christophoridis, A. Droungou, S.-K. Zervou, T.Triantis, T. Kaloudis, A. Hiskia, «Simultaneous determination of cyanotoxins *Cylindrospermopsis* and *Anatoxin-a* in water using LC-MS/MS. Optimization of extraction with experimental design», 5th EUCHEMS Chemistry Congress, 31 August-4 September, 2014, Istanbul, Turkey
- ♦ S.-K. Zervou «Method development for the analysis of cyanotoxins in water», Workshop Cyanotoxins in Fresh Waters, Advances in Analysis, Occurrence, Treatment, 5 May, 2014, Athens, Greece, (Oral presentation)
- ♦ S.-K. Zervou, T. Triantis, T. Kaloudis, A. Hiskia, «Optimization of Solid Phase Extraction (SPE) and LC-ESI-MS/MS for the Determination of Cyclic Peptide Cyanotoxins (CPCs) in Water», 8th International Conference of Instrumental Methods of Analysis - Modern Trends and Applications (IMA 2013), 15 - 19 September, 2013, Thessaloniki, Greece (Oral presentation)
- ♦ T. Kaloudis, A. Hiskia, S.-K. Zervou, K.Tsimeli and T. Triantis, «Monitoring of Microcystins in Lake Marathonas, a Water Reservoir of Athens, Greece», 14th EuCheMS International Conference on Chemistry and the Environment (ICCE 2013) 25 – 28 June, 2013 Barcelona, Spain

- ♦ S.-K. Zervou, K. Tsimeli, T. Triantis, T. Kaloudis and A. Hiskia, «*Monitoring of Microcystins in Lake Marathonas, a Water Reservoir of Athens, Greece*», CYANOCOST meeting, 24-26 April, 2013, Gdansk, Poland
- ♦ S.K. Zervou, T. Kaloudis, T. Triantis, P. Miskaki, A. Hiskia «*Trace-level determination of 8 priority pesticides in water using solid phase extraction, liquid chromatography - tandem mass spectrometry (LC-MS/MS)*», AACD 8th Aegean Analytical Chemistry Days, 16 – 20 September, 2012, Izmir, Turkey (Oral presentation)
- ♦ T. Kaloudis, T. Triantis, J. Dimitrakopoulos, T. Fotiou, S.-K. Zervou, M. Grammenou, E. Lytras, F. Miskaki, A. Hiskia «*Metrology problems and proposed solution on the determination of Cyanotoxins in environmental samples*», 4th Bi-annual Metrology National Conference, 3 & 4 February, 2012, Athens, Greece