

► Nikolopoulou Varvara

Ph.D. Candidate at University of Athens

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Personal details

Date of Birth	04/07/1994
Place of Birth	Tripoli, Greece
Workplace Address	Laboratory of Analytical Chemistry, Department of Chemistry, University of Athens, Greece

Education

B.Sc. in Chemistry (2012-2016), University of Athens, Grade: 7.68/10.00

M.Sc. in Analytical Chemistry (2016-2018), University of Athens, Grade: 9.57/10.00

Ph.D. in Analytical Chemistry (2018-today), University of Athens

Research Topics

Undergraduate Thesis: "Determination of emerging pollutants in sewage sludge by Reversed Phase Liquid Chromatography tandem Quadrupole - Time of Flight Mass Spectroscopy detection (LC-QTOF-MS)", Laboratory of Analytical Chemistry, Department of Chemistry, University of Athens, Greece (2016).

Master Thesis: "Determination of emerging pollutants in sewage sludge with LC-QTOF-MS", Laboratory of Analytical Chemistry, Department of Chemistry, University of Athens, Greece (2016-2018).

Ph.D. Thesis: "Development of methods for the advanced monitoring of priority pollutants and emerging contaminants in environmental samples by LC/GC-QTOF-MS, through non-target screening approaches and chemometrics", Laboratory of Analytical Chemistry, Department of Chemistry, University of Athens, Greece (2018-today).

Research Interests

General research interests:

- Method Development
- Reversed Phase Liquid Chromatography (RP-LC) and Gas Chromatography (GC)
- High Resolution Mass Spectrometry (HRMS)
- Environmental Chemistry (monitoring of priority pollutants and emerging contaminants in environmental samples)
- Suspect and non-target (HRMS) screening of emerging pollutants

Projects:

- 2016-2017: **EMBLAS II**, EU/UNDP Project: Improving environmental monitoring in the Black Sea. Analysis of water framework priority substances and screening of black sea specific pollutants in water, biota and sediment samples obtained during the National Pilot Monitoring Studies and Joint Open Sea Surveys and risk assessment of identified pollutants.
- 2017-2018: **EMBLAS II**, EU/UNDP Project: Improving environmental monitoring in the Black Sea. Analysis of water framework priority substances and screening of black sea specific pollutants in water, biota and sediment samples obtained during the National Pilot Monitoring Studies and Joint Open Sea Surveys and risk assessment of identified pollutants.
- 04/2018 – today: Monitoring of Asopos river basin: Assessment of pollution/contamination and qualitative/ quantitative investigation of contamination levels and possible sources of pollution (Region of Attica)
- 06/2018 – today: Investigation of the occurrence of emerging contaminants in the Athenian Water Reservoirs (EYDAP S.A.)
- 09/2018 – today, **LIFE APEX**: Systematic use of contaminant data from apex predators and their prey in chemicals management, LIFE17 ENV/SK/000355 (European Union)

Scientific Knowledge

Knowledge of advanced analytical techniques:

- Sample preparation (LLE/SLE, SPE, QuEChERS, USE)
- Liquid (reversed phase) and gas chromatography
- High Resolution Mass Spectroscopy
- Qualitative and Quantitative analysis
- Target and non-target screening of emerging pollutants by HRMS
- International Standards (ISO 9001, 17025:2005, 14001, 15189)

Computer Skills

- Microsoft Office (Word, Excel, Powerpoint, Access): ECDL Expert Certificate
- ISIS/Draw, MarvinSketch: Chemical structure drawing programs
- Programming Language: C

Sophisticated Software:

- TASQ™, DataAnalysis™, TargetAnalysis™ (Bruker Daltonics Inc.)

Foreign Languages

- English: Certificate of Proficiency in English (C2), University of Michigan
- Italian: Certificato Statale di Conoscenza delle Lingue (C1), Ministry of National Education and Religious Affairs, Hellenic Republic

Professional Experience

- Analyst (2016-present), Laboratory of Analytical Chemistry, Department of Chemistry,

University of Athens, Greece

Teaching Experience

- Supervisor of Instrumental Analysis II (laboratory, 4th semester, undergraduate students, 2018), Laboratory of Analytical Chemistry, Department of Chemistry, University of Athens, Greece
- Supervisor of Instrumental Analysis II (laboratory, 4th semester, undergraduate students, 2019), Laboratory of Analytical Chemistry, Department of Chemistry, University of Athens, Greece

Publications in journals

- Paola Movalli, Guy Duke, Gloria Ramello, René Dekker, Al Vrezec, Richard F. Shore, Antonio García-Fernández, Chris Wernham, Oliver Krone, Nikiforos Alygizakis, Alexander Badry, Fausto Barbagli, Koos Biesmeijer, Giovanni Boano, Alexander L. Bond, Yael Chosh, Jan Bolding Christensen, Alessandra Cincinelli, Sara Danielsson, Andreia Dias, Rune Dietz, Marcel Eens, Silvia Espín, Igor Eulaers, Sylke Frahnert, Tibor I. Fuiz, Georgios Gkotsis, Natalia Glowacka, Pilar Gómez-Ramírez, Marco Grotti, Michel Guiraud, Peter Hosner, Ulf Johansson, Veerle L.B. Jaspers, Pepijn Kamminga, Jan Koschorreck, Burkhard Knopf, Eero Kubin, Sabrina LoBrutto, Rui Lourenco, Tania Martellini, Emma Martínez-López, Rafael Mateo, Maria-Christina Nika, Varvara Nikolopoulou, Dan Osborn, Olivier Pauwels, Marco Pavia, M. Glória Pereira, Heinz Rüdell, Pablo Sanchez-Virosta, Jaroslav Slobodnik, Christian Sonne, Nikolaos Thomaidis, Till Töpfer, Gabriele Treu, Risto Väinölä, Jari Valkama, Steven van der Mije, Didier Vangeluwe, Ben H. Warren and Friederike Woog, Progress on bringing together raptor collections in Europe for contamination research and monitoring in relation to chemicals regulation, *Environment Science and Pollution Research*, 2019, Volume 26, Issue 20, pp 20132–20136.
- V. Nikolopoulou, A. Ajibola, N. Thomaidis “Determination of Emerging Contaminants in Sewage Sludge Samples from Nigerian WWTPs by LC-QTOF-MS” *Science of the Total Environment* (submitted)

Conferences Presentations

1. Varvara I. Nikolopoulou, Akinranti Ajibola, Nikolaos S. Thomaidis “Determination of Emerging Pollutants in Sewage Sludge Samples from three Nigerian WWTPs with LC-QTOF-MS”, 11th Aegean Analytical Chemistry Days (AACD 2018), 25-29 September 2018, Chania, Crete, Greece (Oral presentation)
2. N. Alygizakis, A. Cincinelli, R. Dekker, G. Gkotsis, G. Duke, N. Glowacka, B. Knopf, J. Koschorreck, T. Martellini, P. Movalli, M.C. Nika, V. Nikolopoulou, H. Rüdell, R. Shore, N. Thomaidis, G. Treu, J. Slobodnik “Determination of emerging substances in top predators and their prey using state-of-the-art chemical monitoring methods” ESB Conference 2019, 5 June 2019, Stockholm, Sweden (Oral presentation)
3. V.I. Nikolopoulou, M.-C. Nika, R. Aalizadeh, N.S. Thomaidis, Development of methods for the advanced monitoring of emerging contaminants in environmental samples from the Asopos river basin by UPLC-QToF-MS, 17th International Conference on Chemistry and the Environment, 16-20 June 2019, Thessaloniki, Greece (Oral presentation)
4. Gkotsis G., Alygizakis N., Cincinelli A., Dekker R., Duke G., Glowacka N., Knopf B., Koschorreck J., Martellini T., Movalli P., Nika M.C., Nikolopoulou V., Ruedel H., Shore R., Thomaidis N.S., Treu G. and Slobodnik J., Determination of emerging contaminants in apex predators and their prey from European specimen banks and natural history museums by high resolution mass spectrometry techniques, 17th International Conference on Chemistry and the Environment, 16-

20 June 2019, Thessaloniki, Greece (Poster presentation, poster award)

5. A. Cincinelli, N. Alygizakis, R. Dekker, G. Duke, G. Gkotsis, N. Glowacka, B. Knopf, J. Koschorreck, T. Martellini, P. Movalli, M.C. Nika, V. Nikolopoulou, M. Oswaldova, H. Rüdél, S. Santini, R. Shore, N. Thomaidis, G. Treu, Jaroslav Slobodnik “Determination of legacy and emerging organic contaminants in top predators and their prey to improve chemical management” Euroanalysis 2019, 1-5 Sept 2019, Istanbul, Turkey (Poster presentation)
6. Nikolopoulou V.I., Nika M.-C., Aalizadeh R., Alygizakis N. and Thomaidis N.S., Screening thousands of emerging contaminants in Asopos river basin by UPLC-QToF-MS, 16th International Conference on Environmental Science and Technology, 4-7 Sept 2019, Rhodes, Greece (Oral presentation)
7. Nikolopoulou V.I., Nika M.C., Aalizadeh R., Miskaki F., Kaloudis T., Deutereos N., Avagianos C. and Thomaidis N.S., Determination of Emerging Contaminants in Surface Water Resources of EYDAP following wide-scope Target and Suspect Screening, 16th International Conference on Environmental Science and Technology, 4-7 Sept 2019, Rhodes, Greece (Poster presentation)
8. G. Gkotsis, N. Alygizakis, A. Cincinelli, R. Dekker, G. Duke, N. Glowacka, B. Knopf, J. Koschorreck, T. Martellini, P. Movalli, M.C. Nika, V. Nikolopoulou, H. Ruedel, R. Shore, N.S. Thomaidis, G. Treu, J. Slobodnik “Determination of more than 2,400 emerging contaminants in apex predators and their prey from European Specimen Banks and Natural History Museums by novel and complementary High Resolution Mass Spectrometry Techniques”, 16th International Conference on Environmental Science and Technology, 4-7 Sept 2019, Rhodes, Greece (Oral presentation)
9. A. Androulakakis, N. Alygizakis, G. Gkotsis, V. Nikolopoulou, M.C. Nika, A. Cincinelli, R. Dekker, G. Duke, N. Glowacka, B. Knopf, J. Koschorreck, T. Martellini, P. Movalli, H. Ruedel, R. Shore, G. Treu, Jaroslav Slobodnik and N.S. Thomaidis “In-depth investigation of the occurrence of per- and polyfluorinated substances in top predators and their prey employing high-resolution mass spectrometry” IMA 2019 22-25 Sept 2019, Ioannina, Greece (Poster presentation)
10. P. Movalli, G. Duke, G. Ramello, J. Sbokos, R. Dekker, A. Vrezec, R. Shore, A. García-Fernández, C. Wernham, O.Krone, N. Alygizakis, A. Badry, F. Barbagli, K. Biesmeijer, G. Boano, A.L. Bond, Y. Choresh, J. Bolding Christensen, A.Cincinelli, S. Danielsson, A. Dias, R. Dietz, M. Eens, S. Espín, I. Eulaers, S. Frahnert, T. Fuiz, G. Gkotsis, N. Glowacka, P. Gómez-Ramírez, M. Grotti, M. Guiraud, P. Hosner, U. Johansson, V. L.B. Jaspers, P. Kamminga, J. Koschorreck, B. Knopf, E.Kubin, S. LoBrutto, R. Lourenco, T. Martellini, E. Martínez-López, R.Mateo, M.C. Nika, V. Nikolopoulou, D. Osborn, O. Pauwels, M. Pavia, M. Glória Pereira, H. Rüdél, P. Sánchez-Virosta, J. Slobodnik, C. Sonne, N.Thomaidis, T. Töpfer, G. Treu, R. Väinölä, J.Valkama, S. Van der Mije, D. Vangeluwe, Ben H. Warren and F. Woog “Towards a European raptor specimen bank in support of contaminant research and monitoring for better chemicals management” 11th Biennial European Bird Curator Meeting, 22-26 Sept 2019, Tel Aviv, Israel (Poster presentation)

Awards and Honors

- Scholarship from the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT) for doctoral candidates, 2019

Professional Affiliations

- Association of Greek Chemists, 2016-Present

Contact Information

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