

CURRICULUM VITAE

Name: **PSYCHOGIOU Maria**

Nationality: Greek

Place of Birth: Lefkada

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Current Position

Assistant Professor

Agricultural University of Athens. Department of Natural Resources Management and Agricultural Engineering. Water Resources Division.

Education

- Ph.D. in Agricultural Sciences. Agricultural University of Athens, Department of Natural Resources Management and Agricultural Engineering, (2003).
- Diploma in Agricultural Sciences, Specialization: Agricultural Engineering and Land Reclamation. Agricultural University of Athens, (1983).

Others

- Degree in Pedagogical Studies. Pedagogical Technical School (PATES)/SELETE, (1997).

Languages

English (fluent), French (Diplôme des Etudes Supérieures).

Member: Geotechnical Chamber of Greece (GEOTEE)

Work Experience

- Research assistant, Lab. of Agricultural Hydraulics. Agricultural University of Athens (1984-2000)
- Laboratory Teaching Staff, Agricultural University of Athens (2000-2005)
- Lecturer, Agricultural University of Athens, (2006-2013)
- Assistant Professor, Agricultural University of Athens (2013-today)

Training and Courses

- Training course on “Atomic Absorption Spectroscopy”. January 1989. Varian’s Application Laboratory. Zug, Switzerland.
- Course on “Multipurpose Unsteady Flows Simulation and Control System MUFSYS”. December 1989. Czech Hydrometeorological Institute, Prague, Czechoslovakia.
- Seminar of the European Association “Environmental Management Education”. June 1992. National & Kapodistrian University of Athens.
- Specialized course on “Soil and water conservation in arid regions”. June 1994. IAM Chania, IAM Bari, Ministry of Agriculture and Agrarian Reform of Syria, Damascus, Syria.
- Course on “Introductory Groundwater Flow and Contaminant Transport Modeling, MODFLOW model”. November 2000. Environmental Simulation International. Athens.

Teaching experience

- Seminars: Teaching at Greek Productivity Center (Pollution of surface and groundwater, inorganic pollutants, Heavy metals in surface and underground waters, Laboratory assays, 1988-1994).
- Undergraduate courses: Teaching courses on: Soil Physics, Environmental Soil Physics, Agricultural Hydraulics, Environmental Hydrology and Water quality, Irrigation, Irrigation systems, Drainage. (Theory&Labs)
- Postgraduate courses: Specific issues on: Analytical Methods for Soil, Water and Plant tissues, Environmental Hydraulics, Environmental Soil Physics, Water Quality (2007-today).

Research interests

Soil water movement and solute transport in the unsaturated zone. Irrigation and crop production, Water quality for irrigation, Surface water pollution, Groundwater quality, Sea-water intrusion, Nitrate pollution. Environmental impacts of agriculture.

Reviewer in International Scientific Journal

Plant and Soil, Environmental Monitoring and Assessment, Water Resources Management.

Other activities

Expert in WFD CIS WG Data & Information Sharing (DIS) and WG Chemicals representing the Special Secretariat for Water of the Greek Ministry of Environment, Energy and Climatic Change (2012-today).

Participation in research projects

- *Ecological impact of air pollution in the Attica region and study of possible solutions for rehabilitation*, Financed by PERPA, (1983 – 1985), Sc. Responsible: Prof. A. Poulouvasilis.
- *Monitoring of the sea water intrusion in the groundwater aquifers of Argolis Plain*. Financed by E.E.C. and Ministry of Agriculture of Greece, (1984-1996), Sc. Responsible: Prof. A. Poulouvasilis.
- *Rational water application for irrigation and drainage purposes under Greek conditions*. Financed by EEC & Ministry of Agriculture of Greece (1985- 1996). Sc. Responsible: Prof. A. Poulouvasilis.
- *Validity limits and possible trends of coastal south Mediterranean traditional groundwater irrigated agriculture*. CHEAM Bari, Italy, Agricultural University of Athens, Bonifica S.p.A. Consulting Engineers, Italy, Exarchou, Nicolopoulos Ltd Consulting Engineers, Greece. Financed by E.C. (1994-1998)
- *Understanding the natural and anthropogenic causes of land degradation and desertification in the Mediterranean Basin*. Financed by E.C (1994-1998), Sc. Responsible of Agricultural University of Athens: A. Poulouvasilis.
- *Effects of irrigation with saline water on yield and crop production*. PENED (1996-1998). Sc. Responsible: Kerkides P.
- *Rational exploitation of water resources and environment of hydrological basin of the Vathi Kalymnos with an emphasis on the holistic geo-economic management of these resources*. Interreg II-Drought (1998-2001). Sc. Responsible: Mimides Th.
- *Contamination sources and proposals for the environmental upgrading of Koumoundourou Lake, Attica Greece*”, Financed by LIFE and Prefecture of West Attica. Scientific responsible: Poulouvasilis A., Mimides Th.
- *Growth and photosynthetic activity of roses grown on substrates under various irrigation and drainage regimes*. AUA and Agricultural Research Institute of Cyprus. Financed by General Secretariat for Research and Technology. (2002-2004). Sc. Responsible: Prof. Kerkides P.

Publications

Ph.D. thesis: “Effects of irrigation with saline water on soil and on vegetable crops and citrus trees”. Agricultural University of Athens. Department of Natural Resources Management and Agricultural Engineering (2003).

Publications in International Journals and Books

- Poulouvasilis A. and M. Psychoyou, (1985). “*Steady state evaporation from layered soils*”. Soil science vol. 140 (6), pp. 399-405.
- Poulouvasilis A., P. Kerkides, S. Aggelides, Th. Mimides, M. Psychoyou, S. Alexandris, G. Kargas and A. Sgoumbopoulou, (1996). “*Assessment of impacts of irrigated agriculture: A case study*”. NATO ASI Series. Series E: Applied Sciences, Kluwer Academic Publishers, vol. 312, pp. 601-613.
- Alexandris, S., P.M. Allen, I. Black, C. Blatsou, N. Calamaras, P. Giannouloupolos, M. Lemon, T. Mimides, A. Poulouvasilis, M. Psychoyou and R.A.F. Seaton, (1998). “*Agricultural production and water quality in the Argolid valley, Greece*”. In: The Archaeomedes project. Understanding the natural and anthropogenic causes of degradation and desertification in the Mediterranean basin. Research results”. Volume: Synthesis., van der Leeuw (ed), Office for Official Publications of the European Communities, Luxembourg, pp. 281-326.
- Kerkides P., I. Argyrokastritis and M. Psychoyou, (2006). “*Determination and sensitivity analysis of dispersion parameters for solute transport in soils*”. Irrigation and Drainage, 55(5), pp. 545-559.
- Psychoyou M., Th. Mimides, S. Rizos and A. Sgoumbopoulou, (2007). “*Groundwater hydrochemistry at Balkan coastal plains - the case of Marathon of Attica, Greece*”. Desalination 213(1-3), pp. 230–237.
- Poulouvasilis A., M. Psychoyou and P. Kerkides, (2007). “*Solute transport in soils: An algorithmic approach*”. Water Resources Management, 21(11), pp. 1941- 1954.
- Londra P.A., A.T. Paraskevopoulou and M. Psychoyou. (2012). “*Evaluation of water –air balance of various substrates on begonia growth*”. Hortscience 47(8):1153–1158.
- Londra P.A., M. Psychoyou and J.D. Valiantzas (2012). “*Evaluation of substrate hydraulic properties amended by urea formaldehyde resin foam*”. Hortscience 47(9): 1375-1381
- Sotiras, M.-I.N., Papadakis, I.E., Psychoyou, M. and Vemmos, S. (2016). “*Salinity-induced changes in leaf photosynthesis, chlorophyll, proline, hydrogen peroxide and malondialdehyde in loquat plants*”. Acta Hort. 1139, 387-392
- Karantzi, A.D., Papadakis, I.E., Psychoyou, M. and Ioannou, D. (2016). “*Nutrient status of the banana cultivar 'FHIA-01' as affected by boron excess*”. Acta Hort. 1139, 399-404.
- Markou, G. Inglezakis V.J., Mitrogiannis D., Efthimiopoulos I, Psychoyou, M., Koutsovitis, P., Muylaerte, K. and Baziotis I. «*Sorption mechanism(s) of orthophosphate onto Ca(OH)₂pretreated bentonite*» RSC Adv., 2016(6), pp. 22295–22305.
- Bourazanis G., Psychogiou M. and N. Nikolaou, (2017) “*Chloride Transport Parameters Prediction for a Clay-Loam Soil Column*’ Bull. Environ. Contam. Toxicol. 98, pp.378–384.
- Mitrogiannis D., Psychoyou M., Baziotis I., Inglezakis V.J., Koukouzas N., Tsoukalas N. , Palles D., Kamitsos E., Oikonomou G., Markou g. (2017), “*Removal of phosphate from aqueous solutions by adsorption onto Ca(OH)₂ treated natural clinoptilolite*”. Chemical Engineering Journal 320, pp. 510–522.

Publications in International Conference proceedings

- Poulouvasilis A., T. Mimides, A. Nikolopoulos, M. Psychoyou, A. Sgoumbopoulou, G. Kargas, P. Kerkides, S. Alexandris, S. Aggelides, and P. Gianouloupolos.(1994). “*Validity limits and possible trends of coastal South Mediterranean traditional groundwater*

- irrigated agriculture*". Intern. Conf. on "Land and Water Resources Management in the Mediterranean Region", BARI, Sept. 1994, Vol. IV, pp.73-99.
- Poulouvasilis A., S. Aggelides, P. Kerkides, Th. Mimides, M. Psychoyou, S. Alexandris, G. Kargas and A. Sgoubopoulou, (1993). "*Sea-water intrusion in the coastal aquifers of Iria-Peloponnese due to overpumping*", First International Congress on the Environment. Abstracts. Geotechnical Chamber of Greece, Athens. Poulouvasilis A., M. Psychoyou, S. Alexandris, (1993). "*Rainwater quality in the Botanikos area of Attica*", Abstracts. First International Congress on the Environment. Geotechnical Chamber of Greece, Athens.
 - Poulouvasilis A., S. Aggelides, P. Kerkides, Th. Mimides, M. Psychoyou, S. Alexandris, G. Kargas and A. Sgoubopoulou, (1993). "*Nitrate concentration in groundwater of Iria and Argolis*", First International Congress on the Environment. Abstracts. Geotechnical Chamber of Greece, Athens.
 - Poulouvasilis A., S. Aggelides, P. Kerkides, Th. Mimides, M. Psychoyou, S. Alexandris, G. Kargas and A. Sgoubopoulou, (1993). "*Soil salt accumulation in Iria-Peloponnese valley due to irrigation with brackish groundwater*", First International Congress on the Environment. Abstracts. Geotechnical Chamber of Greece, Athens.
 - Poulouvasilis A., S. Aggelides, P. Kerkides, Th. Mimides, M. Psychoyou, S. Alexandris, G. Kargas and A. Sgoubopoulou, (1993). "*Cadmium concentration in groundwater in the valley of Iria-Peloponnese*", First International Congress on the Environment. Abstracts. Geotechnical Chamber of Greece, Athens.
 - Kerkides P., C. Olympios, M. Psychoyou and A. Lagoudaki, (1997). "*The effect of saline irrigation water on crop growth and yield*". International Conference on "Water management, salinity and pollution control towards sustainable irrigation in the Mediterranean region". Bari Italy, vol.VI, pp. 1-17
 - Psychoyou M., Th. Mimides, S. Rizos, A. Sgoubopoulou, (2005). "*Groundwater hydrochemistry at Balkan coastal plains. The case of Marathon of Attica, Greece*", Aqua 2005, International conference on new water culture of southeast European Countries, Association of Greek Chemists, Federation of Chemical Societies South-East European Countries. Athens, 21-23/10/2005.
 - Psychoyou M., S. Rizos and A. Sgoubopoulou, (2012). "Groundwater Quality of Assini and Iria valleys in Peloponnese Region. Greece". 80 International Soil Science Congress on "Land Degradation and Challenges in Sustainable Soil Management" Cesme-Ismir, Turkey, 15-17 May 2012, pp. 233-238.
 - Psychoyou M., S. Rizos, A. Sgoubopoulou and I. Argyrokastritis, (2012). "Nitrate movement in irrigated fields. The case of Kopais plain. Greece" 80 International Soil Science Congress on "Land Degradation and Challenges in Sustainable Soil Management" Cesme Ismir, Turkey, 15-17 May 2012, pp. 548-553.
 - Psychogiou M., Sgoubopoulou A., Rizos S., Giannoussa G., and P. Kerkides (2012) "*Groundwater quality and nitrate pollution in the Argolis region. Peloponnese*" Protection and Restoration of the Environment XI. International conference organized by Stevens Center for Environmental Engineering of the Stevens Institute of Technology, USA and the Division of Hydraulics and Environmental Engineering of the Aristotle University of Thessaloniki, Thessaloniki Greece. 3-6 Ιουλίου 2012

Selected Publications in National Conference proceedings

- Mimides Th., Aggelides S., Koutsomitros S., Psychoyou M., Kargas G. and Sgoubopoulou A. (1997). "*Study of the aquifer of Iria plain with emphasis on hydrochemical processes and sea water intrusion*. 4th National Hydrogeological Conference. Thessalonica, 14-16 November 1997, pp. 292-308. (in Greek).
- Kerkides P., Olympios Ch., Psychoyou M. (1998). "*Effect of brackish water irrigation on horticultural crops*". 7th Panhellenic Soil Conference, Agrinio, 27-30 May 1998, pp. 120-131. (in Greek).

- Giannouloupoulos, P., Alexandris S., Psychoyou M. And Poulouvassilis, A. (2002). “Salinization and quality characteristics of groundwater in Argolis Plain”. 6th Panhellenic Hydrogeological Conference –Salinization of ground water. Xanthi, 8-10 November 2002, pp. 1-12. (in Greek).
- Chemonidou D., Bolla A., Vassiliou L, Kerkides P., Psychoyou M. and Karabourniotis G. (2005). “*Growing of Roses on substrates for two irrigation regimes*”. 22th Conference of Hellenic Society for Fruit and Vegetable Science. Patra, 19-21 October 2005, pp. 153-156. (in Greek).
- Rizos S., Aggelides S., Oikonomou P., Psychoyou M., Roubos I. and Karamanos A., (2006). “*Water balance of the hydrological basins of Zagora, Pelion, Magnesia*”. 10th Panhellenic Conference of Hellenic Hydrotechnical Union. Xanthi, 13-16 December 2006, pp. 273-280. (in Greek).
- Psychoyou M., Sgoubopoulou S., Kargas G. (2006). “*Groundwater quality in Iria Valley Peloponnese*”. 10th Panhellenic Conference of Hellenic Hydrotechnical Union. Xanthi, 13-16 December 2006, pp. 491-498. (in Greek).
- Argyrokastritis, J., Tetradaou M., Psychoyou M. and Kerkides P., (2006). “*A sensitivity analysis of agrochemical movement parameters in soils*”. 11th Panhellenic Soil Conference. Arta, 4-8 October 2006, pp. 117-127. (in Greek).
- Olympios Ch., Psychoyou, M., Vilanakis K., Kerkides, P. (2007). “*Effect of salinity and rootstock on yield and quality of cucumber*”. 23th Scientific Conference of Hellenic Society of Fruit and Vegetable Science. Xania, 23-26 October 2007, pp. 843- 846. (in Greek).
- Argyrokastritis I.G., A. Topis, D. Stamatakos, S. Alexandris, M. Psychogiou, P. Papastilianou και P.Kerkides (2008). “*Changes of Water stress index in two cotton varieties under deficit irrigation conditions*”. 12th Panhellenic Conference of Hellenic Soil Science Society, Pirgos, Sept. 2008, pp.191-203 (in Greek).
- Anastassopoulos V., Katsileros A., Psychoyou M., Symillidis G. “*Response of selected common wheat varieties to abiotic stresses*”. 12th Conference of the Hellenic Scientific Society for Plant Genetics and Institute of Deciduous Trees NAGREG, Veroia, 8-10 October 2008, pp. 219-222.
- Psychoyou M., Rizos S., Zografou S. and Kerkides P., (2011). “*Water quality characteristics of surface water in Kopais Plain*”. 7th Panhellenic Conference of Hellenic Society of Agricultural Engineers, Athens.