

# CURRICULUM VITAE



## 1. Personal details

- Name: Paraskevi A. LONDRA
- Year of birth: 1971
- Place of birth: Korinthos, Greece
- Nationality: Greek
- Marital status: Married with one child
- Home address: 32 Achillea, 15344 Gerakas, Greece
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## 2. Work address: Agricultural University of Athens,

Dept. of Natural Resources Management and Agricultural Engineering,

Laboratory of Agricultural Hydraulics,

75 Iera Odos, 11855 Athens, Greece

## 3. Education

1989- 1994: First Degree in Agricultural Engineering from the Department of Natural Resources Management and Agricultural Engineering, Agricultural University of Athens, equivalent to a M.Sc. Degree.

(Dissertation titled: “Investigation of gypsum blocks electrical resistance changes under different moisture and temperature conditions”)

1996- 2001: Ph.D. degree in Agricultural Sciences, Agricultural University of Athens (Thesis titled: “Moisture-aeration balance of substrates as developed under different irrigation treatments”)

2012-2014: M.Sc. degree in “Hydrology and Water Resources Environmental Management”, National Technical University of Athens, Inter-

Departmental Postgraduate Course “Water Resources Science and Technology”.

(Thesis titled: “Sizing of rainwater harvesting tanks for domestic use in Greece”)

#### **4. Scholarships**

1989-1994: Scholarship awarded by the National State Scholarships Foundation for achieving the greatest grade in the Department of Natural Resources Management and Agricultural Engineering of the Agricultural University of Athens at each academic year of study.

1996-2000: Scholarship awarded by the National State Scholarships Foundation for succeeding in the exams for postgraduate studies.

#### **5. Present Duties - Work Experience**

04/2002-05/2014: Research Staff at the Laboratory of Agricultural Hydraulics of the Agriculture University of Athens

06/2014-present: Laboratory Teaching Staff at the Laboratory of Agricultural Hydraulics of the Agriculture University of Athens

#### **6. Teaching Experience on Postgraduate Course**

*Acad. years 2001-02, 2002-03, 2003-04 and 2004-05*

Postgraduate course in “Special Issues of Soil and Substrates” at the Department of Natural Resources Management & Agricultural Engineering of Agricultural University of Athens.

*Acad. year 2006-07*

Postgraduate course in “Soil and Substrates Management in Green Works” at the Department of Natural Resources Management & Agricultural Engineering of Agricultural University of Athens.

*Acad. year 2015-16*

Postgraduate course in “Special Issues of Soil Physics” at the Department of Natural Resources Management & Agricultural Engineering of Agricultural University of Athens.

## **7. Areas of Research Interest**

- Physical-Hydraulic Properties of Soil and Substrates
- Vadose Zone Hydrology
- Irrigation Management
- Effect of Soil Water Pressure on Crop Growth and Yield
- Water Resources Management

## **8. Languages**

Greek, English

## **9. Research Projects**

*Participated as a research assistant in the following E.U. research projects:*

1. “Determination of Irrigation Needs of Greece-EURO-APAS RENA” (1995).
2. “Mediterranean Desertification Following Land Use Changes- MEDALUS III” (1996-1997).
3. “Effect of Subsoil Compaction in the Plant Growth and in the Environment” (1998-2000).
4. “Water Saving in Mediterranean Agriculture-WASAMED” (2003-2007, ICA3-CT2002-10013, INCO-MED).
5. “Deficit Irrigation for Mediterranean Agricultural Systems (DIMAS)” (2005-2008, INCO-CT-2004-509087).

*Scientific Responsible of the following research project financed by the Agricultural University of Athens:*

1. “Investigation of Water-Aeration Optimum Balance of Substrates used in Horticulture” (2001-2003).

## **10. Professional Affiliations - Member of:**

- Geotechnical Chamber of Greece
- Hellenic Soil Science Society
- Hellenic Association of University Women
- Soil Science Society of America

## **11. Reviewer – Editorial Board**

Reviewer for the following referred international journal and conference

- Geoderma
- HortScience
- Irrigation and Drainage
- Plant and Soil
- Water

Member of the Editorial Board of the journal “Agriculture and Forestry”

## 12. Publications

### I. Ph.D. Thesis

Londra, P.A. 2001. “Moisture-Aeration Balance of Substrates as Developed under Different Irrigation Treatments”, *Agricultural University of Athens, Dept. of Natural Resources Management & Agricultural Engineering*, Athens, 2001. (in Greek)

### M.Sc. Thesis

Londra, P.A. 2014. “Sizing of rainwater harvesting tanks for domestic use in Greece”. *National Technical University of Athens, Inter-Departmental Postgraduate Course “Water Resources Science and Technology”*, Athens, 2014. (in Greek)

### II. Publications in peer reviewed journals

1. Aggelides, S., P. Londra, S. Theocharopoulos, and A. Statha. 1997. “Calibration of gypsum blocks in terms of temperature and its evaluation”. *Agricultural Research*, 21:83-93. (in Greek)
2. Aggelides, S., P. Londra, A. Liakatas, and S. Theocharopoulos. 1997. “Calibration of gypsum blocks in terms of matric potential and temperature and its evaluation”. *Agricoltura Mediterranea*, 127:1-6.
3. Aggelides, S., and P. Londra. 1998. “Comparison of empirical equations for temperature correction of gypsum sensors”. *Agronomy Journal*, 90:441-443.
4. Aggelides, S.M., and P.A. Londra. 2000. “Effects of compost produced from town wastes and sewage sludge on the physical properties of a loamy and a clay soil”. *Bioresource Technology*, 71(3):253-259.

5. Valiantzas, J.D., P. Londra, and A. Sassalou. 2007. "Explicit formulae for soil water diffusivity using the one-step outflow technique". *Soil Science Society of America Journal*, 71:1685-1693.
6. Valiantzas, J.D., and P. A. Londra. 2008. "Direct determination of the Brooks-Corey hydraulic functions by fitting an extended power function to the outflow method data". *Journal of Hydrology*, 362:128-133.
7. Soulis, K. X., J. D. Valiantzas, N. Dercas, and P. A. Londra. 2009. "Analysis of the runoff generation mechanism for the investigation of the SCS-CN method applicability to a partial area experimental watershed". *Hydrology and Earth System Sciences*, 13:605-615.
8. Valiantzas, J.D., V. Pollalis, K. Soulis, and P.A. Londra. 2009. "Modified form of the extended Kostikov equation including various initial and boundary conditions". *Journal of Irrigation and Drainage Engineering, ASCE*, 135(4):450-458.
9. Londra, P.A. 2010. "Simultaneous determination of water retention curve and unsaturated hydraulic conductivity of substrates using a steady-state laboratory method". *HortScience*, 45(7):1106-1112.
10. Valiantzas, J.D., V. Pollalis, K. Soulis, and P.A. Londra. 2011. "Rapid Graphical Detection of Weakness Problems in Numerical Simulation Infiltration Models Using a Linearized Form Equation". *Journal of Irrigation and Drainage Engineering, ASCE*, 137(8):524-529.
11. Babilis, D.J., and P.A. Londra. 2011. "Assessment of various methods for the determination of hydraulic conductivities of two green roof substrates by steady state infiltration experiments". *Irrigation and Drainage*, 60(2): 274-280.
12. Londra, P.A., and J.D. Valiantzas. 2011. "Soil water diffusivity determination using a new two-point outflow method". *Soil Science Society of America Journal*, 75(4):1343-1346.
13. Tzanakakis, V.A., N.V. Paranychianakis, P.A. Londra and A.N. Angelakis. 2011. "Effluent application to the land: Changes in soil properties and treatment potential". *Ecological Engineering*, 37:1757-1764.

14. Valiantzas, J.D. and P.A. Londra. 2012. "Simplified Equations for the Determination of the Hydraulic Properties of Horticultural Substrates by One-Step Outflow Experiments". *Journal of Plant Nutrition and Soil Science*, 175:49-52.
15. 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.
16. 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.
17. Paraskevopoulou, A., I. Mitsios, I. Fragkakis, P. Nektarios, N. Ntoulas, P. Londra and M. Papafotiou. 2014. "The growth of *Arthrocnemum macrostachyum* and *Halimione portulacoides* in an extensive green roof system under two watering regimes". *Agriculture and Agricultural Science Procedia*, 4:242 – 249.
18. Kargas, G. and P.A. Londra. 2015. "Effect of tillage practices on hydraulic properties of a loamy soil". *Desalination and Water Treatment*, 54(8):2138-2146.
19. Londra, P.A., A.T. Theocharis, E. Baltas and V.A. Tsihrintzis. 2015. "Optimal sizing of rainwater harvesting tanks for domestic use in Greece". *Water Resources Management*, 29:4357–4377.
20. Bourazanis, G., P. Londra, G. Kargas, I. Argyrokastritis and P. Kerkides. 2015. Evaluation of porous medium hydraulic properties using experimental methods and RETC code. DOI: 10.1080/03650340.2015.1124095 (in press)
21. Londra, P., G. Kargas and J. Valiantzas. 2016. Evaluation of hydrodynamic characteristics of porous media using RETC code. *Hydrotechnika* (in press) (in Greek)
22. Londra, P., A. Theocharis, E. Baltas and V. Tsihrintzis. 2016. Investigation of rainwater harvesting tank size for livestock use in Greece. *Hydrotechnika* (in press) (in Greek)

### III. Publications in International and National Conference proceedings

1. Aggelides, S., S. Theocharopoulos, and P. Londra. 1995. "Calibration of soil moisture gypsum blocks for temperature". *Proceedings of the 3<sup>rd</sup> International Meeting on Red Mediterranean Soils*, Chalkidiki-Greece, May 21-26, 1995. pp. 187-190.
2. Tsanis, K., P.A. Londra, and A.N. Angelakis. 1996. "Assesment of Water Needs for Irrigation in the Island of Crete". *Proceedings of the 2<sup>nd</sup> International Symposium on Irrigation of Horticulture Crops*, Crete-Greece, 8-13 September, 1996. pp. 41-48.
3. Aggelides, S., P. Londra, G. Chardas, I. Askoxilaki και T. Mimides. 1998. "Effects of composts produced from town wastes and sewage sludge on the physical properties of a loamy soil". *Proceedings of the 7<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Agrinio-Greece, 27-30 May, 1998. pp. 79-88. (in Greek)
4. Londra, P. 2000. "Determination of substrate hydraulic characteristics with simultaneous measurements of moisture curve and hydraulic conductivity". *Proceedings of the 8<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Kavala-Greece, 21-23 September, 2000. pp. 49-60. (in Greek)
5. Londra, P., I. Valiantzas, and S. Aggelides. 2000. "Calculation of substrate hydraulic conductivity with different methods and its comparison with experimental measurements". *Proceedings of the 8<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Kavala-Greece, 21-23 September, 2000. pp. 562-568. (in Greek)
6. Londra, P., A. Salsalou, Ch. Kallianou, and S. Aggelides. 2000. "Effects of irrigation on the growth of Begonia in different substrates". *Proceedings of the 8<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Kavala-Greece, 21-23 September, 2000. pp. 143-153. (in Greek)
7. Londra, P., and I. Argyrokastritis. 2002. "Physical properties of substrates and suggested evaluation methods". *Proceedings of the 9<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Athens-Greece, 2002. pp. 91-104. (in Greek)

8. Londra, P., and I. Valiantzas. 2002. "Simplified method for hydraulic conductivity determination of substrates with one-step outflow method". *Proceedings of the 9<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Athens-Greece, 2002. pp. 69-78. (in Greek)
9. Korres, K., I. Argyrokastritis, and P. Londra. 2002. "Effect of peat- vinasse mixture on some physical properties of a sandy-loam and a clay soil after experimental pot culture". *Proceedings of the 9<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Athens-Greece, 2002. pp. 79-90. (in Greek)
10. Valiantzas, J.D., P. Londra, and A. Sassalou. 2003. "Simplified equations for the determination of soil hydraulic properties from one-step outflow experiments". *Proceedings of the 9<sup>th</sup> National Conference of the Hellenic Hydrotechnical Association*, Thessaloniki-Greece, 2003. pp. 241-248. (in Greek)
11. Londra, P., J.D. Valiantzas, A. Sassalou and M. Gedeon. 2004. "Determination of substrate hydraulic properties used in Floriculture". *Proceedings of the 10<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Volos-Greece, 22-25 September, 2004. pp. 629-640. (in Greek)
12. Babilis, D.J., P. Londra, and S. Aggelides. 2004. "Hydraulic properties investigation of two substrates used in green roofs". *Proceedings of the 10<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Volos-Greece, 22-25 September, 2004. pp. 153-164. (in Greek)
13. Sassalou, A., J.D. Valiantzas, P. Londra, and T. Zerva. 2004. "Determination of soil retention curves based on the one-step outflow method with the simultaneous use of a tensiometer". *Proceedings of the 10<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Volos-Greece, 22-25 September, 2004. pp. 129-139. (in Greek)
14. Babilis, D.J., and P. Londra. 2005. "Flood control protection of urban areas through green roofs constructions". *Proceedings of the 4<sup>th</sup> National Conference of the Hellenic Society of Agricultural Engineers*, Athens-Greece, 6-7 October, 2005. pp. 388-393. (in Greek)
15. Valiantzas, J.D., V. Skouras, A. Sassalou, and P. Londra. 2006. "Determination of substrate mixtures hydraulic properties based on the one-step outflow method



- with the simultaneous use of a tensiometer”. *Proceedings of the 11<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Arta-Greece, 4-7 October, 2006. pp. 143-153. (in Greek)
16. Valiantzas, J.D., V. Skouras, A. Sassalou, and P. Londra. 2006. “One-step outflow with simultaneous use of tensiometers for the determination porous media hydraulic properties”. *Proceedings of the 10<sup>th</sup> National Conference of the Hellenic Hydrotechnical Association*, Xanthi-Greece, 12-15 December, 2006. pp. 829-836. (in Greek)
  17. Karamanos, A., N. Dercas, P. Londra, and S. Aggelides. 2007. “Agricultural water saving in Greece”. *Proceedings of the 6<sup>th</sup> International Conference on Water Saving in Mediterranean Agriculture and Future Research Needs*, Valenzano-Italy, February 14-17, 2007. Number 56 – Vol. III pp. 225-234.
  18. Dercas, N., P. Londra, and A. Karamanos. 2007. “Proposals for improved irrigation water management according to WFD 2000/60”. *Proceedings of the 5<sup>th</sup> National Conference of the Hellenic Society of Agricultural Engineers*, Larisa-Greece, 18-20 October, 2007. pp. 328-336. (in Greek)
  19. Londra, P., J.D. Valiantzas, A. Sassalou and Ch. Papamanthos. 2009. “Simplified experimental procedure for determination of soil water diffusivity using a new two-point outflow method”. *Proceedings of the 11<sup>th</sup> National Conference of the Hellenic Hydrotechnical Association – 7<sup>th</sup> National Conference of the Hellenic Committee of Water Recourses Management*, Volos-Greece, 27-30 May, 2009. pp. 337-344. (in Greek)
  20. Pollalis, E., K. Soulis, E. Diamantopoulos, P. Londra, G. Kargas, and J.D. Valiantzas. 2009. “Evaluation of a low cost soil moisture sensor”. *Proceedings of the 11<sup>th</sup> National Conference of the Hellenic Hydrotechnical Association – 7<sup>th</sup> National Conference of the Hellenic Committee of Water Recourses Management*, Volos-Greece, 27-30 May, 2009. pp. 677-684. (in Greek)
  21. Soulis, K., P. Londra, D. Alonistioti, E. Pollalis, and J.D. Valiantzas. 2009. “Investigation of wildfires effect on flood runoff”. *Proceedings of the 6<sup>th</sup> National Conference of the Hellenic Society of Agricultural Engineers*, Thessaloniki-Greece, 8-10 October, 2009. pp. 163-170. (in Greek)

22. Babilis, D.J., P. Londra, and S. Aggelides. 2010. "Estimation of green roof effect on the temperature regime of the building interior". *Proceedings of the 13<sup>th</sup> National Conference of the Hellenic Soil Science Society*, Larisa-Greece, 20-22 October, 2010. pp. 523-533. (in Greek)
23. Kargas, G. and P.A. Londra. 2013. "Effect of tillage and no-tillage practices on hydraulic properties of a loam soil". *1<sup>st</sup> EWaS-MED International Conference: "Improving Efficiency of Water Systems in a changing natural and financial environment"*, Thessaloniki-Greece, 11–13 April 2013
24. Kargas, G., A. Altinalmazis, D. Mitrosilis and P. Londra. 2013. "Soil moisture retention curve as an index to assess the aggregates stability". *Proceedings of the 8<sup>th</sup> National Conference of the Hellenic Society of Agricultural Engineers*, Volos-Greece, 25-26 September, 2013. pp. 160-164. (in Greek)
25. Paraskevopoulou, A., I. Mitsios, I. Fragkakis, P. Nektarios, N. Ntoulas, P. Londra and M. Papafotiou. 2014. "The growth of *Arthrocnemum macrostachyum* and *Halimione portulacoides* in an extensive green roof system under two watering regimes". *IRLA 2014 International Symposium*, Patra-Greece, 26-28 November 2014.
26. Londra, P.A., A.T. Theocharis, E. Baltas and V.A. Tsihrintzis. 2015. "Effect of dry period on sizing of domestic rainwater harvesting tank". *14<sup>th</sup> International Conference on Environmental Science and Technology*, Rhodes-Greece, 3-5 September 2015.
27. Bourazanis, G., P. Londra and P. Kerkides. 2016. "Crop irrigation needs – Proposal for proper irrigation water pricing". *27<sup>o</sup> National Conference of the Hellenic Society of Horticultural Science*, Volos-Greece, 27-29 September, 2015. (in Greek)
28. Londra, P., G. Kargas and J. Valiantzas. 2015. "Comparison of measured and estimated hydraulic conductivity of two porous media". *Proceedings of the 9<sup>th</sup> National Conference of the Hellenic Society of Agricultural Engineers*, Thessaloniki-Greece, 8-9 October, 2015. (in Greek)
29. Londra, P., A. Theocharis, E. Baltas and V. Tsihrintzis. 2015. "Sizing of rainwater harvesting tank for livestock use". *Proceedings of the 9<sup>th</sup> National*

*Conference of the Hellenic Society of Agricultural Engineers*, Thessaloniki-Greece, 8-9 October, 2015. (in Greek)

30. Londra, P., A. Theocharis, E. Baltas and V. Tsihrintzis. 2015. "Reliability analysis of rainwater harvesting tanks for domestic use". *Proceedings of the 13<sup>th</sup> National Conference of the Hellenic Hydrotechnical Association - 9<sup>th</sup> National Conference of the Hellenic Committee of Water Recourses Management - 1<sup>st</sup> National Conference of the Hellenic Water Association*, Athens-Greece, 10-12 December, 2015. (in Greek)
31. Kargas, G., P. Londra and J. Valiantzas. 2015. "Evaluation of hydraulic conductivity values near saturation using a mini disc infiltrometer". *Proceedings of the 13<sup>th</sup> National Conference of the Hellenic Hydrotechnical Association - 9<sup>th</sup> National Conference of the Hellenic Committee of Water Recourses Management - 1<sup>st</sup> National Conference of the Hellenic Water Association*, Athens-Greece, 10-12 December, 2015. (in Greek)
32. Papagianni, E., P. Londra, A. Theocharis and E. Baltas. 2016. "Rainwater tanks reliability analysis in Cyclades islands". *13<sup>th</sup> International Conference on Protection and Restoration of the Environment*, Mykonos-Greece, 3-8 July, 2016. (submitted for announcement)
33. Paraskevopoulou, A., A. Spentzas, K. Lahaniotis, I. Karapanos, D. Perdikis and P. Londra. 2016. "The establishment of a wildflower meadow "designed" for people to harvest". *6<sup>th</sup> International Conference on Landscape and Urban Horticulture*, Athens-Greece, 20-25 June, 2016. (submitted for announcement)
34. Alevizos, I., A. Paraskevopoulou, A. Kamoutsis, M. Psychoyou and P. Londra. 2016. "The impact of design on the environmental contribution of street trees in Kallithea, Athens". *6<sup>th</sup> International Conference on Landscape and Urban Horticulture*, Athens-Greece, 20-25 June, 2016. (submitted for announcement)

#### **IV. Other publications**

1. Aggelides, S., and P. Londra. 1995. "Crops". *Hellenic Educational Encyclopedia*. Ekdotiki Athinon SA. Vol. 19, pp. 197-199. (in greek)
2. Karamanos, A., S. Aggelides, and P. Londra. 2004. "Irrigation systems performance in Greece". *Options Mediterraneennes*. Ser. B, 52:99-110.

3. Karamanos, A., S. Aggelides and P. Londra. 2004. "Non-conventional water use in Greece". *Options Mediterraneennes*. Ser. B, 53:265-269.
4. Karamanos, A., S. Aggelides, and P. Londra. 2005. "Water use efficiency and water productivity in Greece". *Options Mediterraneennes*. Ser. B, 57:92-100.
5. Karamanos, A., S. Aggelides, and P. Londra. 2006. "Harmonization and integration of water saving options. Convention and promotion of water saving policies and guidelines". *Options Mediterraneennes*. Ser. B, 59:91-96.