

Dr. Matteo Rossi, PhD

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Biography

Dr. Matteo Rossi has a PhD in environmental engineering with a specialization in quantitative hydrogeology and environmental geology.

He is currently a postdoctoral researcher at DICEA - Sapienza where he gives lessons of applied hydrogeology, applied geology and hydrogeological risk.

His major fields of specialization are hydrogeological field campaigns, numerical and analytical hydrogeological modeling, GIS applications in applied geology and hydrogeology, hydrogeological balances referenced to agricultural sector and well test interpretation.

He has participated to the following main researches:

- PAFAGE Project for the Niger environmental resources management granted by Italian Ministry of Foreign Affairs (1 yr);
- Hydrogeological quantitative studies of Southern Latium carbonate and coastal aquifers preliminary for the Latium Regional Water Safeguard Plan granted by Latium Regional Watershed Authority (Italy) (3 yrs);
- Groundwater Withdrawals Regional Geographic Information Database architecture, granted by Latium Regional Administration (1 yr);
- Crop evapotranspiration temporal and spatial distribution on Latium coastal aquifers by integrated use of Landsat7 ETM+ images and GIS granted by Latium Regional Watershed Authority (Italy) (1 yr);
- Project for the rehabilitation of the Rjim Maatoug artificial date palm oases in the Tunisian artesian basin, granted by Italian-Tunisian bilateral cooperation funds (1 yr);
- Preliminary studies of the arsenic natural distribution on Central Italy volcanic aquifers, granted by Latium Regional Administration (1 yr).

Dr. Matteo Rossi main publications are:

- Sappa Giuseppe, ROSSI Matteo "Estimation of Groundwater Flow Discharge between aquifers with analytic elements" – Proceedings of XXXIII IAH Congress "Entendimiento del Flujo del Agua Subterránea", Zacatecas, Mexico, 2004
- Coviello M.T., ROSSI M., Sappa G. "The groundwater overexploitation of a coastal aquifer: a multidisciplinary approach" – 7th Ellenic Hydrogeology Conference, Athens 2005
- Sappa G., ROSSI M., "Data shared elaboration to irrigation water needs evaluation supported by GIS", Proceedings of "5th European Congress on Regional Geological Cartography and Information Systems", Barcellona 2006
- Casa R., ROSSI M., Sappa G., Trotta A., "Assessing Crop Water Demand by Remote Sensing and GIS for the Pontina Plain, Central Italy", *Wat. Res. Man.*, 23 (9), pp. 1685-1712 (2009)
- Aissa Agoun, Giuseppe Sappa, Matteo Rossi, "Analyse de l'efficacité hydraulique des forages artésiens exploitant l'aquifère du complexe terminal dans les oasis de Rjim Maatoug (Tunisie)", submitted to "Hydrological Sciences Journal", MS no: 3158
- Sappa G., Rossi M., "Numerical modeling applied to the North Western Sahara Aquifer System artesianism evolution", accepted for publication on *Italian Journal of Environmental Engineering*, 2010
- Sappa G., Rossi M., "Natural contamination with arsenic and other trace elements in Northern Latium aquifers: a serious problem for drinking water supply management". Proceedings of 4th IAHR Groundwater Symposium, Valencia, 2010

Besides, he has carried-out some international cooperation project in environmental and water sanitation sectors in many countries like Niger, Mexico, Kosovo, Tunisia, Tchad.

He is a member of IAH (International Association of Hydrogeologists).

Contacts

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