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Civil and Environmental Engineering Division
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EXPERIENCE

Research Assistant at Center for Experimental Study of Subsurface Environmental Processes (CESEP), Civil and Environmental Engineering Department, Colorado School of Mines, Golden, Colorado (USA)

September 2010 – Present

Groundwater Modeler and Consultant at *Amphos21 Consulting S.L.* (formerly *Enviros Spain S.L.*), Barcelona (Spain)

January 2008 – April 2010

Hydrogeologist at *Ferrer S.L.*, Barcelona (Spain)

December 2007 – March 2008

Consultant at *NOVATERRA MEDIOAMBIENTAL S.A.*, Barcelona (Spain)

November 2007 – January 2008

Volunteer within the Pilot Project to improve drainage infrastructures and sanitation system through “*Engineers without Borders*” NGO, Maputo (Mozambique)

July 2007 – October 2007

EDUCATION

Ph.D. in Environmental Science and Engineering at Colorado School of Mines, Golden, Colorado (USA)

August 2010 – Present

M.S. in Environmental Science and Engineering at Colorado School of Mines, Golden, Colorado (USA)

August 2010 – December 2012

M.S. in Groundwater Hydrology at the Technical University of Catalonia, Barcelona (Spain)

Thesis: *Modeling solute transport and mass-transfer processes at the MADE site aquifer, Mississippi*

January 2006 – July 2007

“Erasmus” scholarship at the Department of Geodynamics and Geophysics of the University of Barcelona (Spain)

September 2003 – March 2004

B.S. in Geology at the University of Padua (Italy)

September 2001 – March 2005

COMPLEMENTARY COURSES

Subsurface CO₂ Modeling Course, GSC Consultants, Minneapolis, MN, USA

June 20 – 23, 2011

FEFLOW Training Courses: Density – Dependent Modeling and Unsaturated Modeling, DHI-WASY GmbH, Berlin (Germany)

September 17th – 18th, 2009

Workshop: Model Calibration and Quantification of Predictive Uncertainty Using PEST, University of Neuchâtel (Switzerland)

September 15th – 19th, 2008

International Course: Environmental Isotopes applied to groundwater pollution studies,

CONFERENCE PROCEEDINGS

Illangasekare, T.H., Plampin, M., **Trevisan, L.**, Agartan, E, Mori, H., Sakaki, T., Cihan, A., Birkholzer, J., Zhou, Q., Pawar, R., Zyvoloski, G. Multiple scale physical and numerical modeling for improved understanding of mechanisms of trapping and leakage of CO₂ in deep geologic formations. *General Assembly of the European Geophysical Union*, Vienna, Austria, April 2012.

Trevisan, L., Illangasekare, T.H., Rodriguez, D., Sakaki, T., Cihan, A., Birkholzer, J., Zhou, Q. Experimental methods for the simulation of supercritical CO₂ injection at laboratory scale aimed to investigate capillary trapping. *Fall Meeting of the American Geophysical Union*, San Francisco, CA, December 2011.

Cihan, A., Birkholzer, J.T., Zhou, Q., **Trevisan, L.**, Illangasekare, T.H., Rodriguez, D. Sakaki, T. A Numerical Modeling Study of Effect of Heterogeneity on Capillary Trapping of Geologically Sequestered CO₂. *Fall Meeting of the American Geophysical Union*, San Francisco, CA, December 2011.

Trevisan, L., Illangasekare, T.H., Rodriguez, D., Cihan, A., Birkholzer, J., Zhou, Q., Improved understanding of migration and entrapment of supercritical CO₂ in deep geologic formations: intermediate scale testing and modeling. *Proceeding of Modflow and More 2011 Conference*, Golden, June 2011

Illangasekare, T.H., **Trevisan, L.**, Rodriguez, D., Cihan, A., Birkholzer, J., Zhou, Q., A fundamental study of migration and entrapment of supercritical CO₂ in heterogeneous deep geologic formations: intermediate scale testing and modeling. *Proceeding of EGU General Assembly 2011*, Vienna, April 2011

Trevisan, L., Illangasekare, T.H., Rodriguez, D., Cihan, A., Birkholzer, J., Zhou, Q., Experimental study of the capillary trapping during supercritical CO₂ sequestration through analogue test fluid injection at small to intermediate laboratory scales. *Proceeding of AGU Hydrology Days 2011*, Fort Collins, March 2011

Luna, M., Salas, J., Molinero, J., Queralt, E., Rull, M., Colomer, V., **Trevisan, L.**, Ruiz, E., Guimerà, J., Niñerola, J.M., Conceptual and numerical modeling of the infiltration capacity of artificial recharge basins at the Llobregat aquifer (Barcelona, Spain). Proceeding of 1st International Congress on Underground Environment, São Paulo, September 2009

Gonzalez-Nicolás, A., **Trevisan L.**, Ruiz, E., Pérez-Paricio, A., An in situ thermal injection experiment: Some key aspects of the numerical interpretation in the design of groundwater heat pumps. Proceeding of 2nd International FEFLOW User Conference, Berlin, September 2009

Ruiz, E., Mañé, R., Luna, M., **Trevisan, L.**, Cot, A., Ros, X., Vilar, C., Design of a drainage solution for the excavation of the subway station accessing the new T1 terminal at the Barcelona airport. Proceeding of Symposium on water and infrastructure in the subsurface, Barcelona, November 2008