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# Christian Gonzalo DOMINGUEZ GONZALEZ

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## **Education**

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2012-2016: PhD in Geosciences, natural resources and environment (Hydrogeology), UPMC-Sorbonne Université Paris VI, France (graduated with honours)

2005-2011: Civil Engineer, Escuela Politécnica Nacional, Quito-Ecuador

## **Professional and field Experiences**

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2014-2016: Research and field work in the frame of the Galapagos Island Integrated Water Studies (GIIWS) project. *Integrated hydrogeological study of San Cristobal Island (Galapagos)*. UPMC - UMR 8538-Laboratoire de Géologie (Ecole Normale Supérieure), France.

2012-2014: Research and field work in the frame of the Galapagos Island Integrated Water Studies (GIIWS) project. *Integrated hydrogeological study of San Cristobal Island (Galapagos)*. UPMC - UMR.7619-METIS, France.

2011-2012: Research Engineer in the frame of the project: Impacto del cambio climático y de la variabilidad climática en el régimen hidrológico de cuencas hidrográficas con cobertura parcialmente glaciar. *Caso de estudio: volcán Antisana. Development of the Crespos watershed hydro-glaciological model*, Escuela Politécnica Nacional.

2010-2011: Internship in the frame of the GIIWS project, Galapagos Island, Ecuador, 6 months. *Study of the spatial and temporal variability of the throughfall, Santa Cruz Island, Galapagos*. Co-supervised: A. Pryet et S. Violette, UPMC-Sorbonne Universités and M. Villacis, EPN-Quito.

2009: Internship in the Department of Infrastructure Design. *Construcción del Nuevo Aeropuerto Internacional de Quito*. Aecon AG Constructores S.A.

2007: Assistant Topographical Survey in Dominguez & Dominguez. *Estudio de Protección de Crecientes y Aluviones en Quito*.

## **Expertise**

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**Languages** English, French, Spanish: spoken, written and read

**OS** Windows, Mac OS, Linux

**Softs** Microsoft Office, Adobe Suite, Latex, Visual, Matlab, R, C++, SciLab, Python, PEST, XHTML, Java, HECRAS, WaterCad, MasterFlow, ModFlow, Hydrus, METIS, SAP2000, ETABS, AutoCAD, ArcGIS, QGIS

**Scientific** Hydrology, hydrogeology, climate, atmosphere-plant-soil interaction, water transfers in vadose zone, surface-groundwater interactions, water resource management, geophysics and numerical modelling

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## **Publications**

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### **ACL**

PRYET A., DOMINGUEZ C., FUENTE-TOMAI P., CHAUMONT C., OZOUVILLE D' N., VILLACIS M., VIOLETTE S., (2012). Quantification of cloud water interception along a windward slope of Santa Cruz Island. Agricultural and Forest Meteorology, 161 (2012) 94– 106, doi:10.1016/j.agrformet.2012.03.018

DOMINGUEZ C., PRYET A., GARCIA VERA M., GONZALEZ A., CHAUMONT C., TOURNEBIZE J., VILLACIS M., D'OZOUVILLE N., VIOLETTE S. Comparison of deep percolation rates below contrasting land covers with a joint canopy and soil model. Journal of Hydrology. 532 (2016) 65-79, <http://dx.doi.org/10.1016/j.jhydrol.2015.11.022>

DOMINGUEZ C., CHAUMONT C., TOURNEBIZE J., VILLACIS M., VIOLETTE S. Quantification of cloud water interception in the windward highlands of San Cristobal Island (Galapagos). Hydrological Processes. Subm.

### **COMMUNICATIONS & POSTERS**

FUENTE TOMAI P., PRYET A., DOMINGUEZ C., CHAUMONT C., VIOLETTE S., D'OZOUVILLE N., (2011). Water budget of vegetation in montane cloud forests: a case-study in Santa Cruz Island, Galápagos. EGU – Wien (Austria), April 3-8, *comm*

DOMINGUEZ C., PRYET A., FUENTE-TOMAI P., VIOLETTE S., VILLACÍS M., AND D'OZOUVILLE N. (2011). Fog interception and redistribution of rainfall by vegetation as controlling factors of recharge rates: a case-study in Galápagos Islands. EGU – Viennes (Austria), April 3-8, *poster*

GONZÁLEZ A., PRYET A., DOMINGUEZ C., FUENTE-TOMAI P., VILLACIS M., CHAUMONT C., D'OZOUVILLE N., VIOLETTE S. (2011). A hydro-ecological cross-section of Santa Cruz Island, Galapagos Archipelago. AGU Chapman Conference, Galapagos, July 2011, *poster*.

D'OZOUVILLE N., PRYET A., TOURNEBIZE J., CHAUMONT C., GONZÁLEZ A., DOMINGUEZ C., FUENTE-TOMAI P., FERNANDEZ J, VIOLETTE S., (2011). A comparative analysis of infiltration rates below a pasture and a secondary forest on Santa Cruz Island, Galapagos. AGU, San Francisco 13-17 December 2010, *poster*.

DOMINGUEZ C., GONZALEZ A., PRYET A., FUENTE-TOMAI P., D'OZOUVILLE N., VILLACIS M., VIOLETTE S., (2012). Spatial and temporal variability of throughfall along the windward side of Santa Cruz Island, Galápagos. GeoENV, Valencia, September 19-21 2012, *poster*.

DOMINGUEZ C., GONZALEZ A., VILLACIS M., D'OZOUVILLE N., VIOLETTE S., (2014). Study of the water balance components during the garua season on the windward side of the Santa Cruz Island, Galápagos. IPWE, Quito, January 8-10 2014, *oral*.

DOMINGUEZ C., PRYET, A., GONZALEZ, A., TOURNEBIZE, J., CHAUMONT, C., VILLACIS, M., OZOUVILLE, D' N., VIOLETTE, S., 2014. Joint modeling of canopy interception and soil water flow to compare infiltration rates below two land covers (Galápagos Islands). 22<sup>nd</sup> annual Hubbert Quorum on Crustal Fluids, USGS Menlo Park, 14 December 2014, *poster*.

DOMINGUEZ C., PRYET, A., GONZALEZ, A., TOURNEBIZE, J., CHAUMONT, C., VILLACIS, M., OZOUVILLE, D' N., VIOLETTE, S., 2014. Joint modeling of canopy interception and soil water flow to compare infiltration rates below two land covers (Galápagos Islands). AGU, San Francisco 15-19 December 2014, *poster*.

IZQUIERDO T., DOMINGUEZ C., VIOLETTE S., VILLACIS, M., 2015. Volcanic island evolution and their implications for the groundwater conceptual model development in San Cristóbal (Galápagos). AQUA 42 IHS Congress, Rome 13-19 September 2015, *oral*.

DOMINGUEZ C., CHAUMONT C., TOURNEBIZE J., VILLACIS M., VIOLETTE S. Quantification of cloud water interception in the windward highlands of San Cristobal Island (Galapagos). AGU Chapman Conference on Emerging Issues in Tropical Ecohydrology, Cuenca 05-09 June 2016, *poster*.

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## **References**

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### **Prof. Sampurno L.A. Bruijnzeel**

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