

Javier González Corripio

Education

PhD University of Edinburgh, 1999 - 2002.

Modelling the energy balance of high altitude glacierised basins in the Central Andes
Carnegie scholarship

BSc (Honours) in Geography, First Class. University of Edinburgh, 1995 - 1999.

Walton Memorial & Royal Geographical Society Prize for the best dissertation in Physical Geography submitted to a Scottish University, 1999. Plus 4 other prizes

Languages

Spanish: native. **English:** Cambridge Proficiency in English plus eight years residence and study in the UK. Good **French** oral communication and reading comprehension. One year residence in France. Basic **German** and **Italian**

Computer literate: Unix scripting, IDL, Fortran, html, Grads, Ferret, OS: mac, unix, linux, windows

Relevant professional experience

Currently researcher at the University of Innsbruck, Faculty of Geo- and Atmospheric Sciences Lise Meitner Grant, 2007 – present

Assessment of water resources in the Sierra Nevada National Park, Spain.

Teaching experience at Master level at the ETH and in cooperation with the EPFL Lausanne 2005, 2006, 2008. Remote sensing of snow, snow hydrology, mountain meteorology.

Institute of Environmental Engineering, Water Resources Management Group, Swiss Federal Institute of Technology. ETH, Zurich, 2003 - 2006.

One year scientific research visitor at the Centre for Snow Research, Météo France, working on modelling and monitoring snow redistribution by wind, remote sensing of the snow cover and improvements of radiative transfer within the snow model crocus-safran. 2002-2003.

Work in cooperation with the French IRD and Laboratoire de Glaciologie for glacier monitoring.

Work in cooperation with the Laboratorio de Glaciología and Centro de Estudios Científicos (CECS, Chile) on Ice volcano interactions in the Andes of Southern Chile, 2005-2007.

Guest editor HESS, Hydrological and Earth System Sciences, 8(6), 2004

Grants

Carnegie Scholarship, 1999 - 2002.

Swiss National Science Foundation Grant 2004 – 2006

Lise Meitner Grant, FWF 2007-2008

Other

[Free Lance photographer](#)

Founder and developer of <http://www.meteoexploration.com>

Peer Reviewed Publications

Book chapters & proceedings

Corripio, J. G. and Purves, R. S.: 2004, Surface Energy Balance of High Altitude Glaciers in the Central Andes: the Effect of Snow Penitentes, in C. de Jong, D. Collins, and R. Ranzi (eds), *Climate and Hydrology in Mountain Areas*, Wiley & Sons, London. chapter 3, pp. 15–27.

Corripio, J. G., Purves, R. S. and Rivera, A.: 2007, Modeling climate-change impacts on mountain glaciers and water resources in the Central Dry Andes, in B. Orlove, E. Wiegandt and B. Luckman (eds), *Darkening Peaks: Glacier Retreat, Science, and Society*, University of California Press, Berkeley, pp. 126–135.

Journal articles

Rivera, A., **Corripio, J. G.**, Brock, B., Clavero, J. and Wendt, J.: 2008, Monitoring ice capped active Volcán Villarrica in Southern Chile by means of terrestrial photography combined with automatic weather stations and GPS, *Journal of Glaciology*. 54(88), 920-930.

Dadic, R., **Corripio, J. G.** and Burlando, P.: 2008, Mass-balance estimates for Haut Glacier d’Arolla, Switzerland, from 2000 to 2006 using DEMs and distributed mass-balance modeling, *Annals of Glaciology* 49, 22–26.

Pellicciotti, F., Helbing, J., Rivera, A., Favier, V., **Corripio, J.**, Araos, J., Sicart, J.-E. and Carenzo, M.: 2008, A study of the energy balance and melt regime on juncal norte glacier, semi-arid andes of central Chile, using melt models of different complexity, *Hydrological Processes*. 22(19): 3980.

Durand, Y., Guyomarc’h, G., Méridol, L. **Corripio, J.G.** 2005 Improvement of a numerical snow drift model and field validation. *Cold Regions Science and Technology* 43 (2005) 93– 103

Corripio, J. G.: 2004, Snow surface albedo estimation using terrestrial photography, *International Journal of Remote Sensing* . 25(24), 5705–5729.

Corripio, J. G., Durand, Y., Guyomarc’h, G., Méridol, L., Lecorps, D. and Pugliése, P: 2004, Land-based remote sensing of snow for the validation of a snow transport model, *Cold Region Science and Technology*. 39(2-3), 93–104.

Durand, Y., Guyomarc’h, G., Méridol, L. and **Corripio, J. G.**: 2004, 2D numerical modelling of surface wind velocity and associated snowdrift effects over complex mountainous orography, *Annals of Glaciology*, 38, 59-70.

Corripio, J. G.: 2003, Vectorial algebra algorithms for calculating terrain parameters from DEMs and the position of the sun for solar radiation modelling in mountainous terrain, *International Journal of Geographical Information Science* 17(1), 1–23.

Strasser, U., **Corripio, J.**, Pellicciotti, F., Burlando, P., Brock, B. and Funk, M.: 2004, Spatial and temporal variability of meteorological variables at Haut Glacier d’Arolla (Switzerland) during the ablation season 2001: Measurements and simulations, *Journal of Geophysical Research-Atmospheres* 109(D3), D03103.

Other publications

Guyomarc’h, G. and Corripio, J.: 2003, Suivi des zones de neige déplacées par le vent en haute montagne, *Neige et avalanche* (102). June 2003. ANENA, Grenoble.

Corripio, J. G.: 2001, Montañas de Escocia, in K. Betelu (ed.), *Grandes Montañas de Europa*, Desnivel, Madrid, chapter 7. (Mountains of Scotland in Great Mountains of Europe)