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Modeling alpine geomorphology using laser altimetry data

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About the author

Niels Anders was born on September 24th 1983 in Hoorn, The Netherlands. After his 18th birthday he left to Australia for 9 months to work and travel mostly in the desert. It was there where he was struck by the natural landscapes which set the basis to his decision to study Physical Geography in Amsterdam in 2002.

During his M.Sc. ‘Computational Bio- and Physical Geography’ he specialized in using computational techniques, such as remote sensing, GIS, and scripting, for analyzing earth scientific questions. In 2007 he went to Mérida, Venezuela to visit the Instituto de Ciencias Ambientales y Ecológicas (ICAE) for a four-month-internship to study soil hydrological dynamics at the transition zone of two tropical high-mountain ecosystems. His M. Sc. thesis concerned landscape evolution modeling in Austria that resulted in a publication in the journal *Geomorphology* (Chapter 6).

In 2008 he graduated with distinction (*cum laude*) and started his PhD research at IBED to semi-automate geomorphological mapping using object-based image analysis. During his PhD research he presented at several large national and international conferences, spent two months at the Kingston University in the United Kingdom, co-supervised geology practicums and field work on geomorphological mapping in Luxembourg, and co-supervised B. Sc. and M. Sc. theses.

Since 2012, he started as a post-doc researcher at Wageningen University where he elaborated on his digital landscape analysis experience. He currently uses a fixed-wing ‘unmanned aerial vehicle’ (UAV) for the detection of geomorphological activity and quantification of soil erosion, primarily in various regions in Spain.

