

<b>CURRICULUM VITAE VERSIÓN RESUMIDA</b>			
<b>ANTECEDENTES PERSONALES</b>			
Nombre Jasper Moernaut		Rut 24.590.987-k	
Fecha de Nacimiento 09-02-1983	Sexo (M o F)	Nacionalidad Belga	
Profesión Geólogo	Grados Académicos Bsc, Msc, PhD		
Cargo actual Profesor auxiliar			
Instituto/ Facultad Instituto Ciencias Ambientales y Evolutivas / Facultad de Ciencias			
Teléfono 632293526		Correo electrónico <a href="mailto:jasper.moernaut@uach.cl">jasper.moernaut@uach.cl</a>	
<b>Identificador único ORCID</b>		<b>0000-0003-3164-4274</b>	
<b>FORMACIÓN ACADÉMICA</b>			
Institución	Grado Académico	Periodo	Disciplina o área del conocimiento
Ghent University, Belgium	PhD	2010	Geología /Paleosismología
Ghent University, Belgium	MSc	2005	Geología
Ghent University, Belgium	BSc	2003	Geología
<b>ANTECEDENTES ACADEMICOS Y LABORALES</b> , indicando al principio su propia formación Doctoral y Postdoctoral, incluyendo experiencia en formación de estudiantes e investigadores postdoctorales.			
<p><b>a. Cargos y Empleos Anteriores.</b></p> <p>Oct 2011 – Dec 2013: Postdoctoral researcher / Lecturer at ETH Zürich, Switzerland            Oct 2010 – Sep 2011: Postdoctoral researcher at Ghent University, Belgium            Jan 2006 – Sep 2010: Ph.D. student at Ghent University, Belgium</p>			
<p><b>b. Estadías de Perfeccionamiento en otras Instituciones.</b></p> <p>2 weeks in GFZ Potsdam: sediment microfacies;            ECORD Summer School on "Submarine Landslides, Earthquakes and Tsunamis", Sept. 2012, Bremen, Germany</p>			
<p><b>c. Membresías Profesionales.</b></p> <p>International Association of Sedimentologists</p>			

#### **d. Distinciones.**

Premio al Mejor Póster: International symposium of submarine mass movements and their consequences (ISSMMTC) in Kiel (Germany), 09-2013.

#### **e. Número de Tesis dirigidas (separar por: Pregrado, Magíster y Doctorado)**

BSc: 3

MSc: 2

#### **PUBLICACIONES EN MEDIOS CON COMITÉ EDITORIAL.**

##### **In press**

Van Daele, M., **Moernaut, J.**, Doom, L., Boes, E., Fontijn, K., Heirman, K., Vandoorne, W., Hebbeln, D., Pino, M., Urrutia, R., Brümmer, R., De Batist, M., in press. A comparison of the sedimentary records of the 1960 and 2010 great Chilean earthquakes in 17 lakes: implications for quantitative lacustrine paleoseismology. *Sedimentology*, doi:10.1111/sed.12193

Wiemer, G., **Moernaut, J.**, Stark, N., Kempf, P., De Batist, M., Pino, M., Urrutia, R., Ladrón de Guevara, B., Strasser, M., Kopf, A., in press. The role of sediment composition and behavior under dynamic loading conditions on slope failure initiation: a study of a subaqueous landslide in earthquake-prone South-Central Chile. *International Journal of Earth Sciences*, doi:10.1007/s00531-015-1144-8

##### **2014**

Goldfinger, C., Patton, J.R., Van Daele, M., **Moernaut, J.**, Nelson, C.H., De Batist, M., Morey, A.E., 2014. Comment to: "Can turbidites be used to reconstruct a paleoearthquake record for the central Sumatran margin", *Geology*, doi:10.1130/G35558C.1

**Moernaut, J.**, Van Daele, M., Heirman, K., Fontijn, K., Strasser, M., Pino, M., Urrutia, R., De Batist, M., 2014. Lacustrine turbidites as a tool for quantitative earthquake reconstruction: New evidence for a variable rupture mode in south central Chile, *Journal of Geophysical Research - Solid Earth*, 119, 1607–1633, doi:10.1002/2013JB010738.

Van Daele, M., **Moernaut, J.**, Silversmit, G., Schmidt, S., Fontijn, K., Heirman, K., Vandoorne, W., De Clercq, M., Van Acker, J., Wolff, C., Pino, M., Urrutia, R., Roberts, S.J., Vincze, L., De Batist, M., 2014b. The 600 yr eruptive history of Villarrica Volcano [Chile] revealed by annually laminated lake sediments. *Geological Society of America Bulletin*, doi: 10.1130/B30798.1

##### **2011**

Heirman, K., De Batist, M., Charlet, F., **Moernaut, J.**, Chapron, E., Brümmer, R., Pino, M., Urrutia, R., 2011. Detailed seismic stratigraphy of Lago Puyehue: implications for mode and timing of glacier retreat in the Chilean Lake District. *Journal of Quaternary Science* 26(7), 665- 674.

**Moernaut, J.**, De Batist, M., 2011. Frontal emplacement and mobility of sublacustrine landslides: results from morphometric and seismostratigraphic analysis. *Marine Geology* 285(1), 29-45.

Van Daele, M., Van Welden, A., **Moernaut, J.**, Beck, C., De Batist, M., Audemard, F., Sanchez, J., Jouanne, F., Carrillo, E., Malavé, G., Lemus, A., 2011. Reconstruction of Late Quaternary sea/lake level changes in a tectonically active marginal basin using seismic stratigraphy: the Gulf of Cariaco, NE Venezuela. *Marine Geology* 279(1-4), 37-51.

#### **2010**

Garcia Moreno, D., Hubert-Ferrari, A., **Moernaut, J.**, Boës, X., Fraser, J.G., Van Daele, M., Avsar, U., Çagatay, N., De Batist, M., 2010. Structure and recent evolution of the Hazar Basin: a strike-slip basin on the East Anatolian Fault, Eastern Turkey. *Basin Research*. doi: 10.1111/j.1365-2117.2010.00476.x

Stofer, S., **Moernaut, J.**, Melnick, D., Echter, H.P., Arz, H.W., Lamy, F., De Batist, M., Oncken, O., Haug, G.H., 2010. Forearc uplift rates deduced from sediment cores of two coastal lakes in south-central Chile. *Tectonophysics*. doi:10.1016/j.tecto.2009.05.006.

**Moernaut, J.**, Verschuren, D., Charlet, F., Kristen, I., Fagot, M., De Batist, M., 2010. The seismic-stratigraphic record of lake-level fluctuations in Lake Challa: hydrological stability and change in equatorial East-Africa over the last 140 kyr. *Earth and Planetary Science Letters* 290(1-2), 214-223.

#### **2009**

Verschuren, D., Sinninghe Damsté, J., **Moernaut, J.**, Kristen, I., Blaauw, M., Fagot, M., Haug, G. & CHALLACEA project members, 2009. Half-precessional dynamics of monsoon rainfall near the East African equator. *Nature* 462, 637-641.

**Moernaut, J.**, De Batist, M., Heirman, K., Van Daele, M., Pino, M., Brummer, R., Urrutia, R., 2009. Fluidization of buried mass-wasting deposits in lake sediments and its relevance for paleoseismology: Results from a reflection seismic study of lakes Villarrica and Calafquén (South-Central Chile). *Sedimentary Geology* 213(3-4), 121-135.

### **EXPERIENCIA EN INVESTIGACIÓN.**

Fondecyt Regular 2015 – 2019: nr. 1150346: Spatio-temporal patterns of earthquake recurrence in South-Central Chile: quantitative analysis of lacustrine paleoseismic records.

Proyecto de investigación 2012-2014: Research Foundation – Flanders (FWO): "Investigación geotécnica y geomorfológica del Lago Villarrica, Chile".

### **TRANSFERENCIA TECNOLÓGICA E INNOVACIÓN.**