Andrea Andreoli

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Current Position: Assistant professor of Hydrology and Hydraulics at Faculty of Science and Technology, Free University of Bozen-Bolzano (from 2017).

ACHIEVEMENTS

Partecipation at 12 International Projects as CoI;

10 National project as CoI and PI;

20 Papers on Indexed International Refereed Journals (ISI);

57 Proceedings of International Conferences

8 Papers on International Refereed Journals, not Indexed;

2 Books Chapters;

4 Non-Refereed Publications.

EXPERIENCE

From December 2007 to june 2014: Assistant professor of Hydrology and Watershed Management at Concepción University (Chile), Faculty of Forestry.

In 2007 First-level researcher position at University of Padova within the EU Project "Epic Force: Evidence-Based Policy for Integrated Control of Forested River Catchments in Extreme Rainfall and Snowmelt"; coordinated by Prof. J. Bathurst (University of Newcastle, UK).

RESEARCH TOPICS

- Flow hydraulics along step pool channels;
- Stream channel morphology and dynamics and interactions with riparian vegetation;
- Sediment and large wood transport evolution patterns;
- mountain and gravel bed river channel dynamics and large wood characteristic related to watershed management.
- Effects of disturbances (debris flow, lahar, impoundment, damming, forest fire and land-use change) on large wood dynamics and channel morphology;
- River restoration.

QUALIFICATIONS

2002: Degree in “Forest and Environmental Sciences” at the University of Padova;

2006: PhD in “Environmental Watershed Management and Landscape Survey Techniques”, Dept. TESAF, University of Padova;

2006: Doctorate in Forestry Sciences, Inst. Manejo Forestal, Universidad Austral de Chile.

ACADEMIC ACTIVITY (from 2008)

Responsible for almost 50 courses for postgraduated and undergraduated students, more than 1.700 hours of teaching activity

2 PhD Thesis Co-advisor;
1 Master Thesis advisor;
10 Undergraduate Thesis advisor;
11 Undergraduate Thesis Co-advisor;

PEER REVIEWING AND EVALUATOR ACTIVITY

Scientific journals (Water Resources Research, Earth Surface Processes and Landforms, Geomorphology, River Research and Applications, Hydrology and Earth System Sciences, Hydrological Processes, Journal of Flood Risk Management, iForest - Biogeosciences and Forestry, Bosque);

Scientific commitee Mipaaf (Ministry of Agricultural and Forestry Policies, Italy): Expert evaluator for Research and Innovation projects in the agricultural system (2016 - present);
WWR3, 3rd International Conference Wood in World Rivers Padova, Italia, 2015
XII IAEG Congress, Torino, Italy, 2014;
XXI Congreso Chileno de Ingeniería Hidráulica, Concepción, Chile, 2013;

Grants CONICYT (Chile, Chilean government agency responsible for coordinating, promoting and aiding scientific research in the country.) – Grant referee (2008 - present);
UNESCO International Sediment Initiative (ISI) International Hydrological Programme (IHP) thesis grant (2012);
Universidad Austral de Chile (Valdivia) – Research project referee (2009 - present).

SCIENTIFIC PRODUCTION (5 Selected publication)

1. **Andreoli A**, Chiaradia EA, Cislaghi A, Bischetti GB, Comiti F. 2020. Roots reinforcement by riparian trees in restored rivers. *Geomorphology*, 370; https://doi.org/10.1016/j.geomorph.2020.107389;
2. Iroumé A, Mao L, **Andreoli A**, Ulloa H, Ardiles M.P. 2015. Large wood mobility processes in low-order Chilean river channels. *Geomorphology*, 228, 681-693; https://doi.org/10.1016/j.geomorph.2014.10.025;
3. **Andreoli A**, Mao L, Iroumé A, Arumí JL, Nardini A, Pizarro R, Caamaño D, Meier C, Link O. 2012. The need for a hydromorphological approach to Chilean river management. *Rev. Chil. Hist. Nat.*, 85, 339-343;
4. **Andreoli A**, Comiti F, Lenzi MA. 2007. Characteristics, distribution and geomorphic role of large woody debris in a mountain stream of the Chilean Andes. *Earth Surf. Process. Landforms*, 32 (11), 1675-1692; doi: 10.1002/esp.1593;
5. Comiti F, **Andreoli A**, Lenzi MA, Mao L. 2006. Spatial density and characteristics of woody debris in five mountain rivers of the Dolomites (Italian Alps). *Geomorphology*, 78 (1-2), 44-63; doi: 10.1016/j.geomorph.2006.01.021;