Andrea Andreoli

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Current Position: Tenure track Researcher-Assistant professor (RTDb) of Hydrology and Hydraulics at Faculty of Agricultural, Environmental and Food Sciences, Free University of Bozen-Bolzano (from 2023).

ACHIEVEMENTS

Partecipation at

17 International Projects as CoI and PI;

16 National project as CoI and PI;

31 Papers on Indexed International Refereed Journals (ISI);

79 Proceedings of International Conferences

9 Papers on International Refereed Journals, not Indexed;

3 Books Chapters;

6 Non-Refereed Publications.

EXPERIENCE

From may 2017 to june 2023: Researcher with fixed-term contract (RTDa) - assistant professor of Hydrology and Hydraulics at Faculty of Agricultural, Environmental and Food Sciences, Free University of Bozen-Bolzano.

From July 2014 to december 2016: Incoming researcher at Free University of Bozen-Bolzano, Faculty of Science and Technology.

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

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

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.

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

ACADEMIC ACTIVITY (from 2008)

Responsible for almost 50 courses for postgraduated and undergraduated students, more than 3.000 hours of teaching activity

2 PhD Thesis Advisor;
4 PhD Thesis Co-advisor;
9 Master Thesis Advisor;
5 Master Thesis Co-advisor;
14 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, Restoration Ecology, 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;