

## **Silvia Bosa**

PhD, Assistant professor in Hydraulics  
Dipartimento Politecnico di Ingegneria e Architettura  
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M.Sc. in Civil Engineering, Summa cum Laude at the University of Udine (January 2002), with the thesis “Development of a numerical model to study mud and debris flow phenomena”, supervisor Prof. M. Petti; Ph.D. in Civil and Environmental Engineering at the University of Udine with a thesis on the “Numerical modeling of dispersive processes in shallow waters” (May 2006).

Since March 2007 assistant professor in Hydraulic at the University of Udine.

Since 2006 she teaches courses on Hydraulics, Numerical Hydraulics, Computational Hydraulics and Environmental Hydraulics.

Co-author of over 50 scientific publications on environmental hydraulics, including 15 articles in referred international journals, 22 communications to international conferences and 15 communications to national conferences.

Her research interests mainly concern environmental hydraulics, with particular regards into:

- numerical modeling of fluvial flood and flooding;
- pollutant dispersive processes in surface water;
- impulsive waves induced in artificial reservoirs by large landslide, with particular reference to the event of October 1963 in the Vajont basin;
- lagoon hydrodynamics: effects induced by the interaction of tidal currents and wave motion;
- granular and cohesive sediment transport;
- numerical modeling of debris and mud flows propagation.

Udine, May 26, 2023

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