

FEDERICO ANTOLINI

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RESEARCH INTERESTS

Spatial aspects of hydrologic networks and water use; watershed delineation; hydrologic models; spatial and temporal analysis of impact of land use and vegetation on water flow; flood management and flood risk evaluation; game theory applied to water resources.

EDUCATION

MA, Geography, The University of Iowa, expected May 2015.

BS and MS, Environmental Engineering (emphasis in Water Resource Management and Land Planning), Università degli Studi di Udine, Udine, Italy, March 2011.

ACADEMIC EXPERIENCE

Research Assistant, IIHR – Hydrosience & Engineering, The University of Iowa, 2014-2015.

Teaching Assistant, Department of Geography, The University of Iowa, 2013-2014.

Engineering's thesis research focused on the quality of real-time precise positioning services provided by local networks of permanent GNSS reference stations.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Association of American Geographers

PUBLICATIONS

Antolini, F., A. Beinat, Combined tests on NRTK services performance in Veneto and Friuli Venezia Giulia: methodology and results, *Bulletin of Italian Society of Photogrammetry and Topography*, 2/2012: 9-24, 2011.

PROFESSIONAL EXPERIENCE

Studio Laboratorio Ecosol, Oderzo (TV), Italy, 2011- 2013.

Provided expert advice in the environmental, safety and health at work field for small and medium-sized businesses; developed material and taught general and technical courses on safety and health at work to workers and employees.

E-laser s.r.l., Udine (UD), Italy, 2010.

Surveyed and elaborated GPS measurements of sample points, as part of a major plan of assessment of pollution in Marano and Grado Lagoon, on the Adriatic Sea.

COMPUTER SKILLS

Geospatial tools: ArcGIS, QGIS.

Flood risk assessment: HAZUS-MH.

Hydrology: CUENCAS.

Statistical packages: R.

Programming languages: Python, Java.

Database: Postgres.

High-performance computer at The University of Iowa.