

Alberto Vavassori curriculum vitae

Personal Information

Vavassori
Alberto
+39 3488799246
alberto.vavassori@polimi.it
Italian
25/12/1995

Education

Nov. 2021 – present	PhD in Environmental and Infrastructure Engineering, Politecnico di Milano,
	Milan, Italy
	Research topic: Geospatial Enablement for Climate Change Impact Mitigation on Cities and Urban Resilience Acceleration
2017 – 2019	MSc Degree in Environmental and Land Planning Engineering, Politecnico
	di Milano, Milan, Italy
	Grade: 110/110 cum laude
	Thesis: Una Procedura Semi-Automatica per il Crisis Mapping di Eventi Alluvionali
	da Immagini Satellitari e VGI
2014 - 2017	BCs Degree in Environmental and Land Planning Engineering, Politecnico di
	Milano, Milan, Italy
	Grade: 110/110 cum laude
	Thesis: Fattori Meteorologici Influenti sul Distacco di una Valanga: il Caso dell'Alta
	Valtellina

Studies Abroad, Work

otaaleo moroaa, work	
Experience, Interns	
May 2022 – Nov. 2022	Exchange PhD Student , Universitée de Genève, Institute des Sceinces de l'Environnement, Geneva, Switzerland
	Activities: The research focused on the use of the hyperspectral imagery of the PRISMA mission for the segmentation of urban areas in Local Climate Zones.
Sept. 2020 – Oct. 2021	Temporary Research Fellow, Politecnico di Milano, Milan, Italy
	Research title: Strumenti e Metodologie di Monitoraggio Innovativi e Condivisione di Dati Geospaziali
	Activities: Temporary research fellow in the Geomatics and Earth Observation Laboratory. The research focused on GIS, Citizen Science and Remote Sensing for environmental applications.
Feb. 2020 – Sept. 2020	Internship in the field of GIS , Globo srl, viale Europa 17/B, Treviolo (Bergamo)
	Activities: Support in the elaboration and construction of geospatial databases (urban, cadastral and toponymic) and Web Geoportals for Public Administrations through Geographic Information Systems. The activities also

Sept. 2015	include a contribute during training courses for municipal technicians. Internship in the field of Environmental Engineering , Ecosphera srl, via Malogno 2, Palazzolo sull'Oglio (Brescia) Activities: Support in the activities concerning the classification of chemical substances and products used in industrial processes according to the CLP Regulation.
Publications	
[1]	Vavassori, A., Biraghi, C.A., Bratic, G., Carrion, D., Zamboni, G., Brovelli, M.A. (2021) Citizen science tools for lake monitoring in the framework of the United Nations Sustainable Development Goals: the project SIMILE. GI_Forum 2021, 1, 179-186, doi.org/10.1553/giscience2021_01_s179
[2]	Bratic, G., Vavassori, A., and Brovelli, M. A. (2021) REVIEW OF HIGH- RESOLUTION GLOBAL LAND COVER. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, doi.org/10.5194/isprs-archives-XLIII-B4-2021-175-2021
[3]	Vavassori, A., Oxoli, D., and Brovelli, M. A. (2022) Population Space–Time Patterns Analysis and Anthropic Pressure Assessment of the Insubric Lakes Using User-Generated Geodata. ISPRS International Journal of Geo- Information. 2022; 11(3):206. https://doi.org/10.3390/ijgi11030206
[4]	 Oxoli, D., Vavassori, A., Cedeno Jimenez, J. R., and Brovelli, M. A. (2022) OPEN DATA CUBE APPLICATION TO USER-GENERATED GEODATA: VISITORS TURNOUT INVESTIGATION IN THE INSUBRIA NATURAL PARKS, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, XLIII-B4-2022, 267–272, doi.org/10.5194/isprs-archives- XLIII-B4-2022-267-2022

Projects

SIMILE	Sistema Informativo per il Monitoraggio Integrato dei Laghi insubrici e dei loro
	Ecosistemi
	Activities: preparation of the geospatial contextualization basemap for the
	project's Business Intelligence platform; support in the development and
	testing of the Web Application for the management of citizen science data.
CIDMA	Climate Change Induced Disaster Management in Africa
	Activities: preparation and recording of the following lectures: (1) Basic Data
	Structures for both Vector and Raster, (2) Metadata, (3) Basic Cartographic
	Principles.
GIS4Schools	Activities: lecture about vector processing with QGIS, and preparation of the
	lecture material.
HARMONIA	Development of a Support System for Improved Resilience and Sustainable
	Urban areas to cope with Climate Change and Extreme Events
	Activities: Urban Heat Island investigation; review of conditioning factors of
	the urban susceptibility to natural and man-induced hazards.
Attended Conferences	
ISDE12	12th International Symposium on Digital Earth (6 – 8 July 2021)
	Presentation: "Citizen science tools for lake monitoring in the framework of the
	United Nations Sustainable Development Goals: the project SIMILE"
GIS OSTRAVA 2022	Earth Observation for Smart City and Smart Region (16 – 18 March 2022)
	Presentation: "Identification of the Factors Conditioning the Susceptibility of
	Natural and Man-Made Hazards in an Urban Context"
FBAS 2022	International Forum on Big Data for Sustainable Development Goals (6 – 8
	September 2022)

Personal and Technical Skills	
Languages	Italian (native)
Lungunges	English (Full professional proficiency – FIRST Certificate)
Operating Systems	Windows
Programming languages	Python, Matlab, R (basic)
Software	Office package (Word, Excel, Power Point), LaTeX, QGIS, GRASS GIS, Esri ArcGIS Pro
Certifications	
English	Cambridge English – First Certificate in English (Oct. 2016)
Python	IBM – Python for Data Science (Sept. 2020)
	Coursera, University of Michigan – Programming for Everybody (Getting Started with Python); Python Data Structures; Using Python to Access Web Data (July 2021)
Drone	UAS Remote Pilot for Open Category A1+A3
	EASA Training Zone
Teaching Experience	
Nov. 2021	Teaching assistant – BCs Course of Topography at Politecnico di Milano,

Leonardo Campus, Milano, Italy. Laboratory of topographic surveying with total station