Francesco Ioli

PhD student in Environmental and Infrastructure Engineering @ DICA (Polimi)

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R⁶ Francesco-Ioli
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Nationality: Italian
Date of Birth: 03/09/1995

Education and training

2017 – 2020	**MSc Degree in Environmental and Land Planning Engineering**, *Politecnico di Milano*, (Italy), Grade 110L/110
	Major in Land Monitoring and Diagnostics. MSc Thesis: *Evaluation of Airborne Image Velocimetry approaches with low-cost UAVs in riverine environments.*
09/2019 – 01/2020	**Visiting student for MSc thesis development**, *ETH Zürich*, (Switzerland)
01/2019 – 05/2019	**Erasmus exchange**, *Aalto University*, Helsinki (Finland)
2014 – 2017	**BSc Degree in Environmental and Land Planning Engineering**, *Politecnico di Milano*, Grade 102/110
	Snowpack surveys aimed at hydrological analysis: a case study carried out with UAVs and manual probing measurements on the Belvedere glacier (Macugnaga, Italian Alps).

Working experience

2021 – 2022	**Teaching assistant**, *Politecnico di Milano*, Courses of: *Trattamento delle Osservazini (Statistics), Sistemi Informativi Territoriali (GIS),Tecniche di rilievo e modellazione 3D per l'architettura (3D modelling for architecture)*
06/2020–10/2020	**Internship**, *Department of Civil and Environmental Engineering, Section of Geodesy and Geomatics, Politecnico di Milano*, Supervisor: Prof. L. Pinto

Skills

Programming	Matlab, Python, R	Photogrammetry	Agisoft Metashape, PhotoModeler, CloudCompare, MeshLab
GIS	QGIS, ESRI ArcGIS Pro & ArcGIS Desktop, ENVI	GNSS post-processing	Leica Infinity & Leica Geo Office, RTKLIB
CAD & 3D modelling	AutoCAD, ReCap, Autodesk Fusion 360, Rhino	Image processing	Adobe Photoshop & Lightroom, GIMP, RawTherapee, Inkscape
UAVs	UgCS, Mission Planner	OS	Windows, Linux OS (Debian)

Languages

Italian	Mother tongue	
English	C1	*IELTS* certificate (19/07/2018) - British Council

Main pubblications

2022	Ioli, F., Bianchi, A., Cina, A., De Michele, C., Maschio, P., Passoni, D., Pinto, L., 2022. Mid-Term Monitoring of Glacier's Variations with UAVs: The Example of the Belvedere Glacier.*Remote Sensing* 14, 28
2021	De Gaetani, C.I., Ioli, F., Pinto, L., 2021.Aerial and UAV Images for Photogrammetric Analysis of Belvedere Glacier Evolution in the Period 1977–2019. *Remote Sensing* 13, 3787.
2021	Ioli, F., Pinto, L., and Ferrario, F., 2021. Low-cost Assisted Aerial Triangulation for Sub-decimetric Accuracy with non-RTK UAVs.*Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.* XLIII-B2-2021, 25–32

2020   Ioli, F., Pinto, L., Passoni, D., Nova, V., Detert, M., 2020.Evaluation of Airborne Image Velocimetry approaches using low-cost UAVs in riverine Environments. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.* Vol.XLIII-B2-2020, 597–604.

For a complete and up-to-date publication list, visit Francesco Ioli Scholar page.

Additional information

Professional qualification

07/2020   *Esame di Stato* for Civil and Environmental Engineers

Licences

Driving license   B

UAS license   EASA A2 Open Category, with license for critical standard scenarios

Volunteer experiences

2017–present   Scout chief: children's educator in the Italian Scout association *AGESCI*

2016–2017   Volunteer for *Operazione Mato Grosso* (charity organization)

2012–2016   Volunteer for *Libera. Associazioni, Nomi e Numeri contro le mafie*

October 30, 2022