



FEDERICA GASPARI

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Environmental Engineering MSc. Graduate at Politecnico di Milano (Italy), passionate about **GIS**, **Remote Sensing** and **Photogrammetric** innovative applications.

EXPERIENCE

DEC 2020 – NOW

GRADUATE RESEARCH FELLOW, POLITECNICO DI MILANO

Development and implementation of procedures in GIS environment for the management of geo-referenced information flows. SW used: QGIS, Agisoft Metashape, CloudCompare, Qfield, Potree, PostgreSQL

Support to the monitoring activities of bridges in Piacenza Province and dams in Calabria with topographic, laser scanning and drone surveys.

Teaching tutor for the surveying Summer School at Ghiacciaio Belvedere in Macugnaga (VB).

Contribution to the CIDMA (Climate Change Induced Disaster Management in Africa) MOOC preparation (video-recordings of lesson and exercise sessions) on collaborative web mapping topics.

MAR 2021 – NOW

TEACHING SUPPORT, POLITECNICO DI MILANO

Teaching assistant in the Piacenza campus for:

- “Tecniche di rilievo e modellazione 3D per l’architettura” with special focus on the use of Agisoft Metashape, CloudCompare, ReCap and AutoCAD for photogrammetric applications and 3D modelling. Preparation of training material.
- “GIS Applications” dedicated to the basics of QGIS tools linked to vector and raster analysis for architectural application with an introduction to satellite imagery processing.

OCT 2020 – NOW

OPENSTREETMAP TEACHER & TUTOR, WIKIMEDIA ITALIA

"OpenStreetMap: il database geografico collaborativo per la conoscenza del territorio" course focused on the training of secondary school teachers for teaching through webinars and workshops the use of the most common OSM tools. Support to teaching activities and training material preparation for 3 editions.

JUL 2020 – OCT 2020

GEOSPATIAL DATA QUALITY ANALYST, HUMANITARIAN OPENSTREETMAP TEAM

Online internship program focused on the use and application of methodologies and instruments to ensure geospatial feature quality on QGIS and OpenStreetMap environment. Support to the COVID response and disaster preparedness activities in Africa and in the Caribbean area.

EDUCATION

SEP 2017 – OCT 2020

MASTER OF SCIENCE ENVIRONMENTAL AND LAND PLANNING ENGINEERING, POLITECNICO DI MILANO

From October 2019 to September 2020 – Thesis work: “Geolocated Twitter data as a proxy for the analysis of natural disasters: the Hurricane Florence case study”, social big data analyses in GIS environment (ArcGIS, QGIS, Matlab, Python). Graduation Mark: 106/110 – [Full text](#)

Supervisor: Prof. Federica Migliaccio

Co-supervisor: Katarina Spasenovic, Ph.D candidate

Activities and associations: PoliMappers, Open Day, Mobility Exchange Orientation Day, International Buddy project, Webinar tutor for the *Architecture for Smart City* Course (Prof. Massimo Tadi) organised by IMM DesignLab in collaboration with PoliMappers (May-June 2020)

JAN 2019 – JUN 2019

ERASMUS EXCHANGE PROGRAMME, UNIVERSITE GRENOBLE ALPES

Genie Civil - Sciences de la terre et des planètes, environnement

Activities and associations: InteGre – International Etudiants Grenoble, U-Glisce

SEP 2014 – SEP 2017

BACHELOR OF SCIENCE ENVIRONMENTAL AND LAND PLANNING ENGINEERING,

POLITECNICO DI MILANO

Thesis: "Social Media Geographic Information: analisi geostatistiche sui dati di Instagram - Il caso di studio di Expo Milano 2015" social big data analyses in GIS environment (ArcGIS, QGIS). Graduation

Mark: 93/110

Supervisor: Prof.ssa Federica Migliaccio

Co-supervisor: Dott.ssa Diana Pagliari

Activities and associations: PoliMappers

SKILLS

LANGUAGES

ITALIAN Native language

ENGLISH

Listening, Reading, Speaking, Writing: Level C1

Certificate: [First Certificate in English](#) (2014)

FRENCH

Listening, Reading, Speaking, Writing: Level B2

Certificate: [Français Langue étrangère](#) (2019) – [OLS Assessment](#) (2019)

COMMUNICATION & ORGANIZATION

Team-work and problem solving attitude; good writing abilities; active listener and confident speaker; learning attitude for new and challenging activities

DIGITAL

GIS&CAD ENVIRONMENT

ArcGIS – QGIS: Proficient User

SAGA-GIS - AutoCAD – ReCap : Intermediate User

PHOTOGRAMMETRY & REMOTE SENSING

ENVI – Agisoft Metashape – CloudCompare: Experienced User

PROGRAMMING AND DATA ANALYSIS

MATLAB – Python (Numpy, GeoPandas) – PostGIS: Intermediate User

R - HTML – CSS - JavaScript: Basic understanding

OSM EDITOR & TOOLS

iD – JOSM – Go Map ! – Mapillary – MapRoulette – OSMCha – OverpassTurbo – Field Papers - [WikiOSM](#): Proficient User

EDITING, PRESENTATION AND GRAPHICS

Microsoft Office Suite: Proficient User
Certificate: [ECDL](#) (2012)

Blender – Inkscape: Basic understanding

ACTIVITIES

PUBLICATIONS

- Gaspari, F., Stucchi, L., Bratic, G., Jovanovic, D., Ponti, C., Biagi, L. G. A., and Brovelli, M. A.: INNOVATION IN TEACHING: THE POLIMAPPERS COLLABORATIVE AND HUMANITARIAN MAPPING COURSE AT POLITECNICO DI MILANO, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLVI-4/W2-2021, 63–69, <https://doi.org/10.5194/isprs-archives-XLVI-4-W2-2021-63-2021>, 2021.
- Migliaccio F., Pagliari D., Carrion D., Gaspari F., "Geostatistical and temporal analysis of Instagram data: The EXPO Milano 2015 case study," Proceedings ICTIC (Proceedings in Conference of Informatics and Management Sciences), DOI: 10.18638/ictic.2018.7.1.337, ISBN: 978-80-554-1436-2, ISSN: 1339-9144, vol. 7, issue 1, pp. 101 - 105, 2018

CONFERENCES

- [FOSS4G 2021 Buenos Aires](#) (October 1st, 2021)
"Innovation in teaching: the PoliMappers collaborative and humanitarian mapping course at Politecnico di Milano" - Presentation on Academic Track ([Video](#))
- [WikiMania 2021](#) (Aug 16th, 2021)
"cOSMopolIT - Diversity and Inclusion within OpenStreetMap Italy" – Lightning Talk ([Video](#))
- [Global Humanitarian OpenStreetMap Summit 2020](#) (Dec 4th, 2020)
"HOT Data Quality Internship: Results and perspectives of a collaborative project" – Lightning Talk ([Video](#) - [Slides](#))

COURSES

- [Do-It-Yourself Geo Apps](#) (Febbraio 2022) - ESRI
- [Prova di completamento della Formazione online UAS Open AI-A3](#) (Luglio 2021) - ENAC
- [Spatial Data Science: The New Frontier in Analytics with ArcGIS Pro](#) (December 2020) - ESRI
- [Python for Everybody Specialization](#) (July 2020) – Coursera
- [2020 IGARSS Online Summer School: Remote Sensing for Volcanoes](#) (July 2020) - IEEE
- [Introduction to programming with Matlab](#) (June 2020) - Coursera
- [Cartography MOOC with ArcGIS Pro](#) (May 2020) – ESRI
- *German language course* (2020 edition) - Politecnico di Milano
- [Social Media and Emergency Rapid Mapping](#) (2019) - Politecnico di Milano

NETWORKS AND MEMBERSHIPS

- *Faculty Advisor* and *co-founder* of [PoliMappers](#), volunteer students' association based at Politecnico di Milano.
- *Member* of AVIS, Association of volunteered Italian blood donors, since 2013.
- *Active mapper member* of [OpenStreetMap](#) foundation, *Member of the Comms groups* of [State of the Map](#) and [HOT Summit](#) working groups. *Co-founder* of the diversity&inclusion group [cOSMopolIT](#) from the OSM Italian local chapter. Social media committee co-chair for [FOSS4G 2022](#). *Member* of the local team of [State of the Map 2022 Firenze](#).

DRIVING LICENCE

Italian driving licences AM, A1, B

HOBBIES

Cinema and tv series enthusiast. Piano player. Curious about new and innovative technologies for modern challenges. Swimmer and tennis player.

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