Europass
Curriculum Vitae
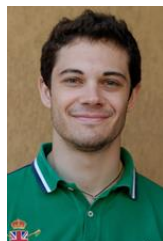
Personal information

First name / Surname	**Marco Minghini**
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Nationality	Italian
Date of birth	December 4, 1986
Gender	male

Work experience

Dates	August 2016 - present
Occupation or position held	Research grant holder
Main activities and responsibilities	Research activity on "Developing methodologies for the shared creation of knowledge through case-based learning practices in the GIS&T sector"
Name and address of employer	Politecnico di Milano - Department of Civil and Environmental Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic research
Dates	March 2017 - July 2017
Occupation or position held	Teaching assistant and lab tutor
Main activities and responsibilities	Giving practical lectures on GIS software, organization and evaluation of the students' lab activities for the course "Geographic Information Systems", Prof. M.A. Brovelli, A.Y. 2016-2017
Name and address of employer	Politecnico di Milano - Department of Civil and Environmental Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic teaching
Dates	November 2016 - February 2017
Occupation or position held	Teaching assistant and lab tutor
Main activities and responsibilities	Giving practical lectures on Remote Sensing software, organization and evaluation of the students' lab activities for the course "Remote Sensing and Image Analysis", Prof. M.A. Brovelli, A.Y. 2016-2017
Name and address of employer	Politecnico di Milano - Como Campus, Via Valleggio 11, 22100 Como (CO), Italy
Type of business or sector	University - academic teaching
Dates	July 2016 - December 2016
Occupation or position held	Expert assisting with designing EU or Euratom research and innovation programmes and policy
Main activities and responsibilities	Development of a first public release of the app named "MIGRATE – MIGRation pATterns in Europe"
Name and address of employer	European Commission - Joint Research Center, Institute for Environment and sustainability, Via E. Fermi 2749, 21027 Ispra (VA), Italy
Type of business or sector	EU research and policy
Dates	July 2015 - June 2016
Occupation or position held	Research grant holder
Main activities and responsibilities	Research activity on "Storage, management and analysis of geo big data from environmental remote sensing (including LiDAR)"
Name and address of employer	Politecnico di Milano - Como Campus, Via Natta 12/14, 22100 Como (CO), Italy
Type of business or sector	University - academic research
Dates	May 2016 - June 2016
Occupation or position held	Teaching assistant and lab tutor
Main activities and responsibilities	Giving practical lectures on GIS software, organization and evaluation of the students' lab activities for the course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, A.Y. 2015-2016

Name and address of employer	Politecnico di Milano - Department of Civil and Environmental Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic teaching
Dates	January 2014 - June 2015
Occupation or position held	Research grant holder
Main activities and responsibilities	Participation in creating the visualization web client and the geoportal for the project "The Paths of Via Regina - Cross-border paths connected to Via Regina", presented within the Operational Programme for Cross-Border Cooperation INTERREG Italy - Switzerland 2007-2013.
Name and address of employer	Politecnico di Milano - Como Campus, Via Natta 12/14, 22100 Como (CO), Italy
Type of business or sector	University - academic research
Dates	March 2015 - June 2015
Occupation or position held	Teaching assistant and lab tutor
Main activities and responsibilities	Giving practical lectures on GIS software, organization and evaluation of the students' lab activities for the course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, A.Y. 2014-2015
Name and address of employer	Politecnico di Milano - Department of Civil and Environmental Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic teaching
Dates	March 2014 - June 2014
Occupation or position held	Teaching assistant and lab tutor
Main activities and responsibilities	Giving practical lectures on GIS software, organization and evaluation of the students' lab activities for the course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, A.Y. 2013-2014
Name and address of employer	Politecnico di Milano - Department of Civil and Environmental Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic teaching
Dates	March 2014 - April 2014
Occupation or position held	Academic tutor
Main activities and responsibilities	Tutoring activities for the "Lake Poli School" project, Prof. M. Arnaboldi, A.Y. 2013-2014
Name and address of employer	Politecnico di Milano - Como Campus, Via Natta 12/14, 22100 Como (CO), Italy
Type of business or sector	University - academic teaching
Dates	November 2013 - December 2013
Occupation or position held	Lab tutor
Main activities and responsibilities	Tutoring activities for the "Matlab Programme" project aimed at providing the basis of Matlab language
Name and address of employer	Politecnico di Milano - Como Campus, Via Natta 12/14, 22100 Como (CO), Italy
Type of business or sector	University - academic teaching
Dates	March 2013 - June 2013
Occupation or position held	Teaching assistant and lab tutor
Main activities and responsibilities	Giving practical lectures on GIS software, organization and evaluation of the students' lab activities for the course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, A.Y. 2012-2013
Name and address of employer	Politecnico di Milano - Department of Civil and Environmental Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic teaching
Dates	November 2012 - January 2013
Occupation or position held	Academic tutor
Main activities and responsibilities	Tutoring activities for the "Lake Poli School" project, Prof. M. Arnaboldi, A.Y. 2012-2013
Name and address of employer	Politecnico di Milano - Faculty of Systems Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic teaching
Dates	November 2012 - December 2012
Occupation or position held	Lab tutor
Main activities and responsibilities	Tutoring activities for the "Matlab Programme" project aimed at providing the basis of Matlab language
Name and address of employer	Politecnico di Milano - Como Campus, Via Anzani 42, 22100 Como (CO), Italy
Type of business or sector	University - academic teaching
Dates	September 2012 - October 2012
Occupation or position held	Occasional collaborator for consulting within the research project Web C.A.R.T.E. (Web Catalog and Archive of the Territory and its Evolutions Representation)
Main activities and responsibilities	Mosaicking and georeferencing historical cadastral maps

Name and address of employer	ImagoGeo Srl, Via Veneto 8, 22032 Albese con Cassano (CO), Italy
Type of business or sector	Research and consultancy in the field of GIS
Dates	May 2012 - June 2012
Occupation or position held	Technical collaborator
Main activities and responsibilities	Georeferencing and warping the current municipality cadastral cartography on top of the municipality official vector map through the use of an algorithm based on multi-resolution spline functions.
Name and address of employer	Administration of Orsenigo Municipality - Technical Department, Via per Erba 1, 22030 Orsenigo (CO), Italy
Type of business or sector	Public administration - Technical Department
Dates	March 2012 - June 2012
Occupation or position held	Teaching assistant and lab tutor
Main activities and responsibilities	Giving practical lectures on GIS software, organization and evaluation of the students' lab activities for the course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, A.Y. 2011-2012
Name and address of employer	Politecnico di Milano - Department of Hydraulic, Environmental, Infrastructural and Surveying Engineering, Piazza Leonardo da Vinci 32, 20133 Milano (MI), Italy
Type of business or sector	University - academic teaching
Dates	August 2011 - September 2011
Occupation or position held	Occasional collaborator within the research project HELI-DEM (Helvetia-Italy Digital Elevation Model)
Main activities and responsibilities	Evaluation of the typical functionalities implemented within commercial GIS software for the altimetric cross-validation of spatial datasets; test of such functionalities on Helidem datasets
Name and address of employer	Politecnico di Milano - Como Campus, Via Anzani 42, 22100 Como (CO), Italy
Type of business or sector	University - academic research

Education and training

Dates	January 2011 - December 2013
Title of qualification awarded	PhD. Qualification awarded on March 26, 2014, thesis title: "Multi-dimensional GeoWeb platforms for citizen science and civic engagement applications", Supervisor: Prof. M.A. Brovelli
Principal subjects/occupational skills covered	Research skills in the different areas related to environmental and geomatic engineering. Data analysis, statistical and numerical methods applied to geodetic and cartographic disciplines: survey, spatial geodesy, navigation, digital photogrammetry, remote sensing, digital cartography and Geographic Information Systems (GIS). Special focus on the implementation of GIS and Internet GIS tools (mainly open source), data georeferencing, Web geoservices for publishing geospatial data, 2D and 3D visualization clients. PhD thesis centred on the implementation of Web geoservices within the areas of crowdsourcing and Volunteered Geographic Information (VGI).
Name and type of organisation providing education and training	Politecnico di Milano - PhD Programme in Environmental and Infrastructures Engineering (XXVI cycle), geomatics profile
Level in national or international classification	PhD
Dates	September 2008 - December 2010
Title of qualification awarded	MSc Eng. Graduation mark: 110/110 with honors, thesis title: "Map processing, Web geocatalogue and viewing services of the Como historical cadastres", Supervisor: Prof. M.A. Brovelli, Co-Supervisor: Dr. L. Ronchetti
Principal subjects/occupational skills covered	Statistical analysis of environmental data, modelling of spatial phenomena, data management and georeferencing. Data survey applied to geodesy and Earth observation: photogrammetry, remote sensing and Synthetic Aperture Radar (SAR). Data storage, analysis and manipulation through Geographic Information Systems (GIS).
Name and type of organisation providing education and training	Politecnico di Milano - Como Campus. Faculty of Civil and Environmental Engineering - Master of Science in Environmental and Land Planning Engineering (specialization in Geomatics)
Level in national or international classification	MSc
Dates	September 2005 - September 2008
Title of qualification awarded	BSc Eng. Graduation mark: 110/110 with honors, thesis title: "Orthorectification of Ikonos images using LiDAR DTM and DSM", Supervisor: Prof. M.A. Brovelli
Principal subjects/occupational skills covered	Mathematics and physics applied to disciplines related to environment: geology, geotechnics, hydraulics, hydrology, topography, ecology, digital cartography, remote sensing, environmental modelling. Notions on Civil Engineering.
Name and type of organisation providing education and training	Politecnico di Milano - Como Campus. Faculty of Civil and Environmental Engineering - Bachelor of Science in Environmental and Land Planning Engineering

Level in national or international classification	BSc
Dates	September 2000 - July 2005
Title of qualification awarded	Secondary School diploma. Qualification awarded with score 100/100
Principal subjects/occupational skills covered	Italian and Latin literature, philosophy, mathematics, physics, biology, chemistry, foreign languages (English and German).
Name and type of organisation providing education and training	Scientific High School "Paolo Giovio", Via P. Paoli 28, 22100 Como (CO), Italy
Level in national or international classification	Secondary School

Teaching experiences

A.Y. 2016-2017	Lab tutor of the MSc course "Geographic Information Systems", Prof. M.A. Brovelli, Politecnico di Milano - Leonardo Campus. Topics: ArcGIS, QGIS, GRASS GIS, GDAL/OGR, GeoPython, GeoServer, OpenLayers, Leaflet.
A.Y. 2016-2017	Lab tutor of the MSc course "Remote Sensing and Image Analysis", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus. Topic: ENVI.
22/07/2016	Teacher at the second-level Specializing Master "Polis Making: Management of urban settlements transformation for the quality of life and the economic development", Politecnico di Milano. Topics: Introduction to GIS, QGIS.
A.Y. 2015-2016	Lab tutor of the MSc course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus. Topics: ArcGIS, QGIS, GeoServer, OpenLayers, Leaflet.
2016	Lab tutor of the PhD course "Geospatial Web, Geo Big Data and citizen-generated Geographic Information", Prof. M.A. Brovelli, Politecnico di Milano. Topics: GeoServer, Open Data Kit.
A.Y. 2015-2016	Lab tutor of the BSc course "Digital Cartography", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus and Lecco Campus. Topics: ArcGIS, QGIS, OpenStreetMap.
12-14/07/2015	Trainer of "FOSS4VGI" Training School supported by COST Action TD1202 "Mapping and the Citizen Sensor", Politecnico di Milano - Como Campus. Topic: Open Data Kit, OpenStreetMap.
A.Y. 2014-2015	Lab tutor of the MSc course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus. Topics: ArcGIS, QGIS, GeoServer, OpenLayers, Leaflet.
A.Y. 2014-2015	Lab tutor of the BSc course "Digital Cartography", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus and Lecco Campus. Topics: ArcGIS, QGIS, OpenStreetMap.
2014-2015	Teacher of the MOOC "M'appare il mondo: dalle carte alla Terra digitale partecipata", Politecnico di Milano - ECO, http://hub10b.ecolearning.eu/course/mappare-il-mondodalle-carte-alla-terra-digitale-4.
08-09/09/2014	Course "Open source GIS" - 87th Congress of the Italian Geological Society, Milan, Italy. Topics: QGIS, QGIS Server, GRASS, Open Data Kit.
2014	Lab tutor of the PhD course "WebGIS and Geoservices", Prof. M.A. Brovelli, Politecnico di Milano. Topic: OpenLayers.
A.Y. 2013-2014	Lab tutor of the MSc course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus. Topics: ArcGIS, QGIS, GeoServer, OpenLayers, GeoExt.
A.Y. 2013-2014	Lab tutor of the "Matlab Programme" project, Politecnico di Milano - Como Campus. Topic: Matlab.
A.Y. 2013-2014	Tutor of the MSc course "Cross Boundary Processes", Prof. M. Arnaboldi, Politecnico di Milano - Como Campus.
19/06/2013	Course "OpenGIS" - 8° Convegno Nazionale GIT, Chiavenna (SO), Italy. Topic: QGIS.
A.Y. 2012-2013	Lab tutor of the MSc course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus. Topics: ArcGIS, QGIS, GRASS, MapServer, p.mapper.
A.Y. 2012-2013	Lab tutor of the "Matlab Programme" project, Politecnico di Milano - Como Campus. Topic: Matlab.
A.Y. 2012-2013	Tutor of the MSc course "Cross Boundary Processes", Prof. M. Arnaboldi, Politecnico di Milano - Como Campus.
23-24/11/2012	"Practical course on OSGIS software" - ESPOL (Escuela Superior Politécnica del Litoral), Guayaquil, Ecuador. Topics: QGIS, GeoServer, GeoNetwork Opensource, OpenLayers.
A.Y. 2011-2012	Lab tutor of the MSc course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus. Topics: ArcGIS, QGIS, GRASS, MapServer, p.mapper.
A.Y. 2010-2011	Lab tutor of the MSc course "Geographic Information Systems (GIS)", Prof. M.A. Brovelli, Politecnico di Milano - Como Campus. Topics: ArcGIS, GRASS, MapServer, p.mapper
A.Y. 2010-2011	Lab tutor of the MSc course "Digital Photogrammetry and Image Analysis", Prof. G. Sona, Politecnico di Milano - Como Campus. Topics: Matlab, PCI OrthoEngine.

Research projects

2016-present	"giCASES – Creating a University-Enterprise Alliance for a Spatially Enabled Society", co-funded by the Erasmus+ Programme of the European Union (http://gicases.eu)

2016-present	"Citizen Science to promote creativity, scientific literacy, and innovation throughout Europe", EU COST Action CA15212 (http://www.cost.eu/COST_Actions/ca/CA15212)
2016	"MIGRATE (MIGRation pATterns in Europe)", funded under the MYGEOSS third call for innovative apps in the environmental and social domains, Digital Earth Lab, Joint Research Center (JRC) of the European Commission (http://geomobile.como.polimi.it/migrate)
2012-2016	"Mapping and the Citizen Sensor", EU COST Action TD1202 (http://www.citizensensor-cost.eu)
2012-2016	"European Network Exploring Research into Geospatial Information Crowdsourcing: software and methodologies for harnessing geographic information from the crowd (ENERGIC)", EU COST Action IC1203 (http://vgibox.eu)
2013-2015	"The Paths of Regina – Cross-border paths linked to Via Regina", funded under the Interreg Cross-border Cooperation Operational Programme Italy-Switzerland 2007-2013 (http://www.viaregina.eu)
2010-2012	"Web C.A.R.T.E. (Web Catalog and Archive of the Territory and its Evolutions Representation)", funded by Fondazione Provinciale della Comunità Comasca onlus (http://webcarte.como.polimi.it)

Publications

[1] Brovelli M.A., Mooney P., Biagi L., Brambilla M., Celino I., Ciceri E., Dorigatti N., Huang H., Minghini M. and Venkatachalam V.C. (in press) Mapping parties at FOSS4G Europe: fun, outcomes and lessons learnt. In: Bordogna G. and Carrara P. (Eds) *Mobile information Systems leveraging Volunteered Geographic Information for Earth Observation*. Springer Berlin Heidelberg.

[2] Kilsedar C.E., Oxoli D., Frassinelli F., Montani M. and Minghini M. (in press) Humanitarian Mapping within a Student Association: PoliMappers. *Geomatics Workbooks*.

[3] Aiello M., Brovelli M.A., Kilsedar C.E., Zurbarán Nucci M.A., Minghini M. and Gianinetto M. (in press) Migration patterns in Europe: geomatics and gamification techniques to raise the awareness of European citizens on migration flows. *Geoengineering Environment and Mining*.

[4] Minghini M., Delucchi L., Sarretta A., Lupia F., Napolitano M. and Palmas A. (in press) Collaborative mapping response to disasters through OpenStreetMap: the case of the 2016 Italian earthquake. *Geoengineering Environment and Mining*.

[5] Foody G., Fritz S., Fonte C.C., Bastin L., Olteanu-Raimond A.-M., Mooney P., See L., Liu H.-Y., Rodriguez A., Minghini M., Antoniou V. and Vatseva R. (2017) Mapping and the Citizen Sensor. In: Foody G., See L., Fritz S., Mooney P., Olteanu-Raimond A.-M., Fonte C.C. and Antoniou V. (Eds) *Mapping and the Citizen Sensor*, 1-12. London: Ubiquity Press. doi:10.5334/bbf.a.

[6] Mooney P. and Minghini M. (2017) A review of OpenStreetMap data. In: Foody G., See L., Fritz S., Mooney P., Olteanu-Raimond A.-M., Fonte C.C. and Antoniou V. (Eds) *Mapping and the Citizen Sensor*, 37-59. London: Ubiquity Press. doi:10.5334/bbf.c.

[7] Minghini M., Antoniou V., Fonte C.C., Estima J., Olteanu-Raimond A.-M., See L., Laakso M., Skopeliti A., Mooney P., Arsanjani J.J. and Lupia F. (2017) The relevance of protocols for VGI collection. In: Foody G., See L., Fritz S., Mooney P., Olteanu-Raimond A.-M., Fonte C.C. and Antoniou V. (Eds) *Mapping and the Citizen Sensor*, 223-247. London: Ubiquity Press. doi:10.5334/bbf.j.

[8] Olteanu-Raimond A.-M., Antoniou V., Fonte C.C., Fonseca A., Grus M., Harding J., Kellenberger T., Laakso M., Minghini M. and Skopeliti A. (2017) VGI in National Mapping Agencies: Experiences and recommendations. In: Foody G., See L., Fritz S., Mooney P., Olteanu-Raimond A.-M., Fonte C.C. and Antoniou V. (Eds) *Mapping and the Citizen Sensor*, 299-326. London: Ubiquity Press. doi: 10.5334/bbf.m.

[9] Minghini M., Brovelli M.A., Vandenbroucke D., Carbonaro M., Prüller S., Painho M., Martirano G. and Frigne D. (2017) FOSS4G as key building block for case-based learning in Geographic Information education. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLII-4/W2, 129-135. doi:10.5194/isprs-archives-XLII-4-W2-129-2017.

[10] Brovelli M.A., Minghini M., Kilsedar C.E., Zurbarán Nucci M.A., Aiello M. and Gianinetto M. (2017) MIGRATE: a FOSS Web Mapping application for educating and raising awareness about migration flows in Europe. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLII-4/W2, 51-55. doi:10.5194/isprs-archives-XLII-4-W2-51-2017.

[11] Brovelli M.A., Minghini M., Molinari M.E. and Mooney P. (2017) Towards an automated comparison of OpenStreetMap with authoritative road datasets. *Transactions in GIS* 21(2), 191-206. doi:10.1111/tgis.12182.

[12] Minghini M., Molinari M.E., See L., Fonte C.C. and Brovelli M.A. (2017) Preliminary Assessment of the Global Urban Footprint and the Global Human Settlement Layer for the city of Milan. *Proceedings of the AGILE 2017 International Conference on Geographic Information Science*, Wageningen (The Netherlands), May 9-12, 2017, ISBN 978-90-816960-4-3.

[13] Carbonaro M., Minghini M, Vandenbroucke D., Brovelli M.A., Gorni S. and Molina R. (2017) Innovation in GI teaching and learning: a case-based approach. *Proceedings of the AGILE 2017 International Conference on Geographic Information Science*, Wageningen (The Netherlands), May 9-12, 2017, ISBN 978-90-816960-4-3.

[14] Fonte C.C., Minghini M., Patriarca J., Antoniou V., See L. and Skopeliti A. (2017) Generating Up-to-Date and Detailed Land Use and Land Cover Maps Using OpenStreetMap and GlobeLand30. *ISPRS International Journal of Geo-Information* 6(4), 125. doi:10.3390/ijgi6040125.

[15] Fonte C.C., Patriarca J., Minghini M., Antoniou V., See L. and Brovelli M.A. (2017) Using OpenStreetMap to Create Land Use and Land Cover Maps: Development of an Application. In: Campelo C., Bertolotto M. and Corcoran P. (Eds) *Volunteered Geographic Information and the Future of Geospatial Data*. IGI Global, 113-137, ISBN 9781522524465. doi:10.4018/978-1-5225-2446-5.ch007.

[16] Brovelli M.A., Minghini M., Moreno Sanchez, R. and Oliveira R. (2017) Free an Open Source Software for Geospatial Applications (FOSS4G) to support Future Earth. *International Journal of Digital Earth* 10(4), 386-404, doi:10.1080/17538947.2016.1196505.

[17] Brovelli M.A., Minghini M. and Zamboni G. (2016) Three dimensional Volunteered Geographic Information: a prototype of a social virtual globe. In: *Geospatial Research: Concepts, Methodologies, Tools, and Applications*. IGI Global, 1881-1898, ISBN 9781466698451. doi:10.4018/978-1-4666-9845-1.ch090.

[18] Lupia F., Minghini M., Napolitano M., Palmas A. and Sarretta A. (2016) VGI ed emergenze. *GEOmedia* n°5-2016, 26-30, ISSN 1128-8132.

[19] Davidovic N., Mooney P., Stoimenov L. and Minghini M. (2016) Tagging in Volunteered Geographic Information: An Analysis of Tagging Practices for Cities and Urban Regions in OpenStreetMap. *ISPRS International Journal of Geo-Information* 5(12), 232. doi:10.3390/ijgi5120232.

[20] Mooney P., Minghini M., Laakso M., Antoniou V., Olteanu-Raimond A.-M. and Skopeliti A. (2016) Towards a Protocol for the Collection of VGI Vector Data. *ISPRS International Journal of Geo-Information* 5(11), 217. doi:10.3390/ijgi5110217.

[21] Ebrahim M., Minghini M., Molinari M.E. and Torrebruno A. (2016) MiniMapathon – Mapping the world at 10 years old. *Proceedings of the 8th annual International Conference on Education and New Learning Technologies (EDULEARN16)*, Barcelona (Spain), July 4-6, 2016, 4200-4208, ISSN 2340-1117. doi:10.21125/edulearn.2016.2018.

[22] Brovelli M.A., Minghini M. and Molinari M.E. (2016) An automated GRASS-based procedure to assess the geometrical accuracy of the OpenStreetMap Paris road network. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLI-B7, 919-925. doi:10.5194/isprsarchives-XLI-B7-919-2016.

[23] Brovelli M.A., Minghini M., Molinari M.E. and Molteni M. (2016) Do open geodata actually have the quality they declare? The case study of Milan, Italy. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLI-B2, 609-614. doi:10.5194/isprsarchives-XLI-B2-609-2016.

[24] Brovelli M.A., Fahl F.C., Minghini M. and Molinari M.E. (2016) Land user and land cover maps of Europe: a WebGIS platform. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLI-B7, 913-917. doi:10.5194/isprsarchives-XLI-B7-913-2016.

[25] Brovelli M.A., Minghini M., Molinari M.E. and Zamboni G. (2016) Positional accuracy assessment of the OpenStreetMap buildings layer through automatic homologous pairs detection: the method and a case study. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLI-B2, 615-620. doi:10.5194/isprsarchives-XLI-B2-615-2016.

[26] Fonte C.C., Minghini M., Antoniou V., See L., Patriarca J., Brovelli M.A. and Milcinski G. (2016) An automated methodology for converting OSM data into a land use/cover map. *Proceedings of the 6th International Conference on Cartography & GIS*, Vol. 1, 462-473, Albena (Bulgaria), June 13-17, 2016, Bulgarian Cartographic Association, ISSN 1314-0604.

[27] Antoniou V., Fonte C.C., See L., Estima J., Jokar Arsanjani J., Lupia F., Minghini M., Foody G. and Fritz S. (2016) Investigating the feasibility of geo-tagged photographs as sources of land cover input data. *ISPRS International Journal of Geo-Information* 5(5), 64. doi:10.3390/ijgi5050064.

[28] Ebrahim M., Minghini M., Molinari M.E. and Torrebruno A. (2016). MiniMapathon: mappare il mondo a 10 anni. *Proceedings of DIDAMATICA 2016*, Udine (Italy), April 19-21, 2016, ISBN 9788898091447.

[29] Brovelli M.A., Minghini M. and Zamboni G. (2016) Participation in GIS via mobile applications. *ISPRS Journal of Photogrammetry and Remote Sensing* 114, 306-315. doi:10.1016/j.isprsjprs.2015.04.002.

[30] Brovelli M.A., Kilsedar C. E., Minghini M. and Oxoli D. (2016) GIS-based Analysis of a Peculiar Effect of Urbanization: The Case of the Buried Watercourses of Como (Italy). *Applied Geomatics* 8(2), 91-105. doi:10.1007/s12518-016-0169-4.

[31] Minghini M. (2015) Accuratezza del posizionamento GPS da comuni dispositivi mobili. *Bollettino della Società Italiana di Fotogrammetria e Topografia (SIFET)* 2-2015, 77-88, ISSN 1721-971X.

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Conferences attended

[1]	State of the Map 2017, Aizu-Wakamatsu (Japan), August 18-20, 2017
[2]	FOSS4G (Free and Open Source Software for Geospatial) Europe 2017, Paris (France), July 18-22, 2017
[3]	20th AGILE International Conference on Geographic Information Science, Wageningen (The Netherlands), May 9-12, 2017
[4]	RDA (Research Data Alliance) 9th Plenary Meeting, Barcelona (Spain), April 5-7, 2017
[5]	FOSS4G-IT 2017, Genova (Italy), February 8-11, 2017
[6]	Mapping, Sensing and Crowdsourcing Geographic Information, London (UK), October 13-14, 2016.
[7]	XXIII Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS 2016), Prague (Czech Republic), July 12-19, 2016
[8]	Wikimania 2016, Esino Lario, LC (Italy), June 24-26, 2016
[9]	OSMit (OpenStreetMap Italian conference) 2016, Milano (Italy), May 20-21, 2016
[10]	XVI Meeting of the Italian GRASS and GFOSS users, Parma (Italy), February 11-12, 2016
[11]	FOSS4G (Free and Open Source Software for Geospatial) Europe 2015, Como (Italy), July 14-17, 2015
[12]	SIFET (Italian Society of Photogrammetry and Topography) Conference 2015, Firenze (Italy), June 24-26, 2015
[13]	10th National Conference GIT (Geosciences and Information Technology), San Leo, RN (Italy), June 17-19, 2015
[14]	18th AGILE International Conference on Geographic Information Science, Lisbon (Portugal), June 9-12, 2015
[15]	2nd EUROGI ImaGIne Conference, Berlin (Germany), October 8-9, 2014
[16]	FOSS4G (Free and Open Source Software for Geospatial) Europe 2014, Bremen (Germany), July 14-17, 2014
[17]	9th National Conference GIT (Geosciences and Information Technology), Montefalco, PG (Italy), June 16-18, 2014
[18]	8th 3D GeoInfo Conference & ISPRS WG II/2 Workshop, Istanbul (Turkey), November 27-29, 2013
[19]	Global Spatial Grids and Cloud-based Services & 3rd International Workshop on Web Mapping and Geoprocessing Services and Applications (WebMGS), Xuzhou (China), November 11-12, 2013
[20]	FOSS4G (Free and Open Source Software for Geospatial), Nottingham (UK), September 17-21, 2013
[21]	INSPIRE (Infrastructure for Spatial Information in the European Community), Florence (Italy), June 23-27, 2013
[22]	8th National Conference GIT (Geology and Information Technology), Chiavenna, SO (Italy), June 17-19, 2013
[23]	XIV Meeting degli utenti italiani GRASS e GFOSS, Genova (Italy), February 6-8, 2013
[24]	Latin OSGIS 2012 - First Latin American Congress of Free and Open Source GIS, Guayaquil (Ecuador), November 19-20, 2012
[25]	16th National Conference ASITA, Vicenza (Italy), November 6-9, 2012
[26]	7th International workshop on digital approaches to cartographic heritage, Barcelona (Spain), April 19-20, 2012
[27]	FOSS4G (Free and Open Source Software for Geospatial), Denver, CO (USA), September 12-16, 2011
[28]	25th ICC (International Cartographic Conference), Paris (France), July 3-8, 2011

Prizes and awards

OpenStreetMap Foundation	Scholarship for free travel, accommodation and attendance to State of the Map 2017, Aizu-Wakamatsu (Japan), August 18-20, 2017.
RDA (Research Data Alliance)	RDA Europe Early Career scholarship for free travel, accommodation and attendance to RDA 9th Plenary Meeting, Barcelona (Spain), April 5-7, 2017
Milan Municipality	Hackathon "Milano@Work" on urban transformations in Milan City, 1st prize (category best application)
COST Action IC1203 ENERGIC	Excellence Award for participation at the conference "Mapping, Sensing and Crowdsourcing Geographic Information", Royal Geographical Society, London (UK), October 13-14, 2016
ISPRS (International Society for Photogrammetry and Remote Sensing)	Scholarship for free attendance to ISPRS 2016 conference, Prague (Czech Republic), July 12-19, 2016
Wikimedia Italia	Scholarship "Alessio Guidetti" for free accommodation and attendance to Wikimania 2016 conference, Esino Lario (Italy), June 24-26, 2016
Rotary Club Como	Rotary Fund Research Award 2014
OSGeo (Open Source Geospatial Foundation)	Scholarship for free accommodation and attendance to FOSS4G 2013 conference, Nottingham (UK), September 17-21, 2013
NASA	NASA World Wind Europa Challenge 2013, 1st prize
GIT (Geosciences and Information Technologies)	Award "Ivo Ricchetti" 2013

Politecnico di Milano	Acknowledgement medal for the best graduated students in the A.Y. 2009-2010
Politecnico di Milano	Acknowledgement medal for the best graduated students in the A.Y. 2007-2008
UNIVERCOMO and "La Stecca" Ass.	Award "Angelo Colombo" 2010
Politecnico di Milano	Scholarship for average mark higher than 29/30 in the A.Y. 2008-2009
Politecnico di Milano	Scholarship for average mark higher than 29/30 in the A.Y. 2006-2007
Politecnico di Milano	Scholarship for average mark higher than 29/30 in the A.Y. 2005-2006

Affiliations

March 2017 - present	Member of RDA (Research Data Alliance)
November 2016 - present	Faculty Mentor of PoliMappers - Politecnico di Milano chapter of the YouthMappers network
October 2016 - present	Secretary of ISPRS WG IV/4 "Collaborative Crowdsourced Cloud Mapping (C³M)"
September 2015 - present	Responsible and contact point of the Geomatics and Earth Observation laboratory (GEOlab) at Politecnico di Milano - Como Campus for the GeoForAll lab network (http://www.geoforall.org)
September 2015 - present	Charter Member of the Open Source Geospatial Foundation (OSGeo)
June 2015 - present	Member of the Italian Society of Photogrammetry and Topography (SIFET)
June 2013 - present	Member of the Geosciences and Information Technologies (GIT) group

Personal skills and competences

Mother tongue   **Italian**

Other languages
Self-assessment
European level (*)

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2
German	A1	A2	A1	A1	A1

(*) Common European Framework of Reference for Languages

Social skills and competences   Skills and competences acquired during primary and secondary school and then developed in the multi-cultural environment of the Como Campus of Politecnico di Milano. Soccer player (role: goalkeeper) from 1992 to 2010 with participation to the top-level regional championships. Goalkeeper coach at soccer clubs from 2009 to 2011. Lover of travelling and knowing new cultures. Strongly interested in cultural activities such as visits to museums and art cities.

Organisational skills and competences   Strong capacity (mainly acquired during PhD) of coordinating working groups in the achievement of works and projects in the fields of teaching, business and research. Participation in writing funding proposals for EU projects (COST, H2020) and projects of the Italian Ministry of Foreign Affairs (Projects of major importance, Researcher Mobility Projects). Extensive experience in coordinating students' didactic projects and organizing/performing lectures, courses, workshops and software tutorials in the academic field. Good problem solving, teamwork, organizational and time management skills. Experience in conference organization (mainly acquired during FOSS4G Europe 2015 conference organization): management of available budget, management of relationships with sponsors and media partners, preparation of conference timetable, schedule and editing of conference proceedings, management of social network accounts.

Technical / computer skills and competences   Knowledge and use of different software categories. Operating systems: MS Windows, Linux Ubuntu. Programming/scripting languages: Matlab, Python, LaTeX. Markup languages: HTML. Office: MS Office, LibreOffice. Geomatics and GIS: OpenJump, ESRI ArcGIS, QGIS, uDig, GRASS, PCI Geomatics, MapServer, GeoServer, p.mapper, OpenLayers, GeoExt, Leaflet, GeoNetwork Opensource, Open Data Kit (ODK). Database: PostgreSQL/PostGIS. Image processing tools: Adobe Photoshop, GIMP. Social medias: Twitter, Facebook, LinkedIn, Instagram, Youtube.

Driving licence   B driving license

I hereby authorize the treatment and protection of my personal data in accordance with art. 13 of Italian Legislative Decree no. 196/2003.

Como, September 20, 2017

Marco Minghini