+Michele Ferretti
GIS ANALYST AND CARTOGRAPHER

mic.ferretti@gmail.com

Technical Skills

Python	R	PostgreSQL
Quantum GIS	ArcGIS	Gephi
Spatial Analysis	Spatial Modeling	ENVI
eCognition	Remote Sensing	Javascript
Jquery	Web Mapping	HTML5
CSS3	Git	OS X
Windows XP/Vista/7/8	Linux (Ubuntu/Mint)	Adobe Creative Suite
Autocad		

Experience

Politecnico di Milano
Data Analyst
2015-Current

Evaluation of Lombardy regional development policies for the period 2007-2013 through the construction of complex geo-referenced database at the municipal level.

Politecnico di Milano
Junior Web-GIS Developer
2014-Current

Responsible for the front-end and the web-mapping application development for the project "The Alpine Landscape on Wikipedia", an open source web-app for valorizing Valsassina valley's Tangible and Intangible Cultural Heritage, as promoted by the European Union's Horizon 2020 directives.

Noovle
GIS Consultant
2013

Assisting the developers team (Noovle geo-spatial division)in devising and implementing analytical and visualization algorithms for the web-based spatial data management platform "GeoCMS".

Agenzia Mobilità Ambiente Territorio Srl
GIS Technician
2013

AMAT - OpenStreetMap (OSM) road network graph data allignment and validation. The work involved an extensive use of tools from the OSM ecosystem.

Milan Chamber of Commerce - OSMI
GIS Analyst Paid Intern
2012

Performed analytical evaluations of Real Estate market prices about density and location of Real Estate market's Demand/Offer. The results have been presented in conference at the presence of Milan's Urban Planning Councillor and published on a dedicated issue of DiBaio Editore magazine.

Education

C.f.p. "Vigorelli"
Python Programming

2012

Basic to medium level programming course in Python. The topics of the course included: , Python architecture, Data structures and data manipulation, Control structures , Procedural, OOP and Functional paradigms in Python, Databases with Python, Python for the Web.

Politecnico di Milano
Urban Planning and Policy Design (M.Sc.)

2011-2013

Grade : 110/110 cum laude
Activities and Societies: Visiting Student at Rijksuniversitet Groningen (RUG), Groningen, the Netherlands. Master thesis : "The Death of Distance in the Age of Urban Sensing", supervised by Prof. Philip McCann of Rijksuniversiteit Groningen, Prof. Valeria Fedeli and Prof. Ilaria Mariotti of Politecnico di Milano. The thesis revisits the contemporary Economic Geography "Flat World" hypothesis by applying Network Analysis and Spatial Statistics techniques to a communication graph derived from crowdsourced mobile phone data.

Politecnico di Milano
"Sistemi Informativi Territoriali e Governo del Territorio, VI° Ciclo" (Postgraduate course)

2012

A post-graduate coures on GIS and Territorial Governance (fully funded via scholarship award).

C.f.p. "Vigorelli"
Environmental Sciences (B.Sc.)

2008-2012

Bachelor thesis "Analisi del consumo di suolo, tramite fotografie aree Visibile-Infrarosso Vicino" supervised by Prof. Roberto Colombo. The thesis derived a semi-automated procedure for mapping land use and soil consumption by applying Remote Sensing's Object-Oriented classification techniques of Vis-NIR airborne imagery. The resulting analysis has been integrated in a larger project on Soil Consumption for the Lecco Province in northern Italy.

Honors and Awards

Outstanding Thesis Award "Stefano Pieracci", XVIII° Edition
AISRE (Italian chapter of the Regional Science Association International)

2014

Award for the Master thesis researched at Rijksuniversitet Groningen (RUG) + Politecnico di Milano. The thesis focused on mobile phone crowdsourced data for revisiting the classic Economic Geography theory "the Death of Distance". It made extensive use of spatial databases (PostgreSQL/PostGIS) and (geo)statistical analysis softwares (Qgis, R, Gephi).

Full Scholarship
Postgraduate course at Politecnico di Milano on "Sistemi Informativi Territoriali e Governo del Territorio, VI° Ciclo"

2014

A post-graduate coures on GIS and Territorial Governanc e.

Projects

Milanography
Web Developer

2015

Milanography is a partecipative mapping project focused on Milan's neighborhoods. It originates from similar experiences (in particular the Bostonography research project) but is entirely built onto an open-stack: Postgres / PostGIS + Flask + LeafletJS, and is currently released publicly on Github.

NOKIA Mobile Data Challenge
GIS Analyst and Cartographer

2012

Title: "Identification of significant places and life practices through mobile usage data: a urban analysis perspective".
Joins the team of cartographers and analysts from LADeC Laboratory at Politecnico di Milano.
Team members: Michele Ferretti + Fabio Manfredini + Paolo Tagliolato

Michele Ferretti — mic.ferretti@gmail.com

twitter.com/miccferr github.com/miccferr