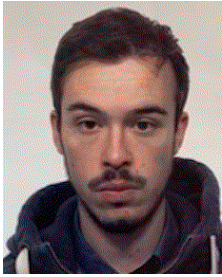# Stefano CUNIETTI

05/12/1994   NOVI LIGURE (AL) ITALY

Nationality: Italian

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- https://www.linkedin.com/in/stefano-cunietti-2b69aa163/

EDUCATION

09/01/2020 - 03/31/2022

Master's Degree in Geospatial Technologies

Westfälische Wilhelms-Universität Münster (WWU); Universitat Jaume I (UJI), Castellón; NOVA - Information Management School (NOVA IMS), Lisboa;

Thesis: Use of social networks for identify the movement patterns in urban areas

Exams passed:
- Data mining
- Geographic Information Science
- Group Project Seminar on Programming and Analysis (Python and PostgreSQL)
- Remote Sensing
- Spatial Data Analysis and Visualization
- Spatial Statistics
- Advanced research methods and skills
- Introduction to Geographic Information Science
- Introduction to SAR technology and spaceborne SAR data analysis
- Location Based Services
- Spatial Cognition
- Spatial Data Science with R
- Transferring Data to Knowledge

01/04/2017 - 02/27/2019 *

Master's Degree in Territorial, Urban, Environmental And Landscape Planning

Politecnico di Torino

Thesis: Cultural heritage, landscape and planning in the Alto Monferrato

The work focuses on the territory of the lower province of Alessandria, historically called Alto Monferrato and Oltregiogo, an area with its own historical characteristics on the border between two regions, Piedmont and Liguria. In the first part I tried to illustrate what still indicates the correlations between identity and landscape, in particular in rural areas in today's globalized world. In the second part I tried to collect those tools useful for the enhancement and conservation of the landscape in Piedmont. In the third part I framed the territories of the Novese District, where I did a curricular internship and whose borders largely reflect the historical ones of the Alto Monferrato. In the fourth part there are the conclusions and the final analyzes.

Supervisors A.Longhi

Final grade 95/110

10/01/2013 - 12/20/2016 *

Bachelor's Degree in Territorial, Urban, Environmental And Landscape Planning

Politecnico di Torino

Thesis: Utilizzo dei dati delle indagini per la redazione dei pian della mobilità sostenibile

The main topic of the thesis is the curricular internship. I followed the implementation of the new Sustainable Mobility Plan (PUMS) of the City of Collegno carrying out surveys, collecting and processing data regarding traffic, ways of moving people, parking spaces, improving road safety in the most critical areas.

Final grade 90/110

2013	high school diploma MATURITA' SCIENTIFICA

TRAINING

09/01/2022 - 02/29/2024 (duration 2 years)	**Course AIS Sommelier**
	Italian Sommelier Association - Alessandria/Acqui Terme - ITALY
	Certificates obtained: professional qualification

07/22/2023 - 07/22/2023	**Proof of completation of the online training - UAV Open sub-category A1-A3**
	Direction de l'Aviation Civile Grand-Duché de Luxembourg - Luxembourg - LUXEMBOURG
	Certificates obtained: technical certification

03/01/2020 - 07/31/2020	**Course of 24 credits to teach in secondary school**
	University of Turin - Turin - ITALY
	Certificates obtained: professional qualification

03/01/2018 - 03/28/2018 (duration 112 hours)	**German course A2**
	Albert Ludwigs Universität Freiburg - Freiburg im Breisgau - GERMANY
	Certificates obtained: attendance

08/16/2016 - 08/22/2016	**FAI volunteer camp for young people in the Bosco di San Francesco**
	FAI - Italian Environment Fund - Assisi - ITALY
	Certificates obtained: attendance

06/06/2016	**Solidworks - Certification for mechanical design at level of associate C-DXNZNJBJZ2**
	Politecnico di Torino - Torino - ITALY
	Certificates obtained: skills declaration

07/22/2012 - 08/03/2012 (duration 30 hours)	**English course Intermediate Level**
	Rider University - Lawrenceville, NJ - UNITED STATES
	Certificates obtained: attendance

07/15/2011 - 07/29/2011	**English course B1**
	Queen Margaret University - Musselburgh - UNITED KINGDOM
	Certificates obtained: attendance

02/25/2011	**ECDL Base**
	I.I.S. Ciampini Boccardo - Novi Ligure - ITALY
	Certificates obtained: skills declaration

07/19/2010 - 07/30/2010 (duration 30 hours)	**English course**
	ISIS Avery Hill - London - UNITED KINGDOM
	Certificates obtained: attendance

INTERNATIONAL EXPERIENCE

10/02/2017 - 07/09/2018	* **E+/EU PROGRAMME COUNTRIES**
	Albert-Ludwigs-Universitat Freiburg im Breisgau - FREIBURG - GERMANY

PROFESSIONAL EXPERIENCE

03/01/2024 - 08/31/2024 Universitat Politècnica de València

Universitat Politècnica de València - Valencia - SPAIN

During my stay in Valencia, I extracted information on the location and technical characteristics of 4G and 5G mobile antennas for drone applications. The mapping of the antennas was useful in verifying network coverage during drone flights, aiming to ensure connection stability. Additionally, only 5G was used to identify areas where antennas could be utilized to position drones in flight with an acceptable error. Subsequently, I developed an algorithm that integrated ground risk assessment, using the SORA methodology, to simulate flight scenarios in urban contexts, considering population density and environmental interferences.

Thesis project

11/01/2022 - up to present Industrial PHD Student

University of Genova and GeoDataLab srl - Genova and Roma - ITALY

This PhD project, in collaboration with GeoDataLab Srls, aims to develop industrial application-driven research towards the Digital European Sky.
The candidate will be expected to study and keep constantly aligned in terms of exploratory and industrial research directed at the implementation of the so-called 'Digital European Sky', more specifically in the U-Space area. Specific contributions to the research will be provided both in terms of concrete development of services and demonstration platforms in the U-Space sphere aimed at analysing and validating the scenarios proposed in the European sphere, and in terms of integrations with existing software or plug-ins, such as the U.Ph.O. application developed by the Geomatics Laboratory of the DICCA, University of Genoa, in the sphere of 3D

Temporary Work

09/27/2021 - 09/30/2022 Junior Project Developer

Renergetica - Salita Santa Caterina, Genova - ITALY

The position requires several tasks:
- verification of project feasibility,
- collection of GIS data and their distribution to colleagues to be used in the feasibility check,
- data management including GIS and also creation of APIs for their visualization (for example: dashbordas, graphs, etc.) to check progress in Python

Apprenticeship

04/01/2021 - 11/30/2021 Project Management - Budget management

NOVA IMS Lisbona - Geomundus conference Lisbon - Lisbon - PORTUGAL

The GeoMundus conference aims to share cutting-edge scientific research, knowledge, skills on geospatial technologies and promote contacts with other students, companies, public institutions, and professionals. This is to cover broad aspects of geospatial technology disciplines, including but not limited to, geographic information systems and sciences, spatial cognition, geography, and spatial data sciences. The first purpose of the conference is to empower students to prepare for a large-scale open event. The event takes several months of preparation and the students divide the work into different teams.
My team is the budget team and it is responsible for searching for sponsorships that other groups can use for different expenses.

Occasional Work

09/16/2019 - 02/29/2020 Research grant within the SMARTOUR project: tourism, local accommodation and rehabilitation. Smart urban policies for a sustainable future

University of Porto - Porto - PORTUGAL

The main tasks performed under the scholarship:
- Quantitative analysis of databases on the offer of local accommodation and the offer of long term rental;
- Cartographic representation: graphical representation of data using Geographic Information System programs;
- Support for project dissemination actions: preparation of project newsletters and support in the preparation of reports and other scientific outputs.

Temporary Work

| 06/05/2019 - 08/30/2019 | **Assistant to the responsible for the design of fiber optic networks** |

Elecnor - San Pietro Mosezzo (NO) - ITALY

Support to the responsible of the design of fiber optic networks, in particular: realization of metric calculations, work with the design team, customer relations, technical planning, Open Fiber network architecture design (PNI).

Apprenticeship

| 09/24/2018 - 01/16/2019 | **Map processing as an accompaniment of the institution's projects** |

Distretto del Novese - Novi Ligure (AL) - ITALY

The Novese District is an association between various municipalities and local associations that deals with the promotion and enhancement of a strip of land in the lower province of Alessandria, its borders largely correspond to the historical ones of the Alto Monferrato. During the internship I assisted the manager in various activities: from contact with the public to bureaucratic tasks. In particular, my knowledge gained during the course of studies was useful in the realization of some works such as cartographies to be coupled as a further explanation to the projects of the District

Internship

| 04/04/2016 - 09/30/2016 | **Computer Lab Assistant LAIB** |

Politecnico di Torino - Torino - ITALY

The position included various tasks: assisting students, checking the correct functioning of computers and printers, assisting professors in conducting lessons and exams, opening and closing laboratories according to certain procedures.

Temporary Work

| 03/28/2016 - 05/20/2016 | **Data retrieval and processing for the construction of the PUMS (urban plan for sustainable mobility) and the plan for the elimination of architectural barriers.** |

Comune Collegno - Public works sector Collegno ITALY - Collegno (TO) - ITALY

The compulsory internship of 7 credits provided for the second period of the third year was carried out at the Municipality of Collegno, Public Works, viability office in via Torino 9 for the collection of data related to the preparation of the PUMS.
The time span went from the end of March to the beginning of May, with an average of weekly hours from 20 to 24.
Different types of jobs have been carried out: starting from the elaboration of existing data, to the design of entities such as public car parks, to the administration of questionnaires and inspections.
The work was done using mainly CAD design programs as Autocad and GIS as ArcMap and QGIS. In particular these last programs have been useful for data processing and their representation.

Internship

LANGUAGE SKILLS

Mother tongue   Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B1
German	A2	A2	A2	A2	A2
Portuguese	B1	B1	B1	B1	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Language certificates

2020	Portuguese Course Level B.1 University of Porto
2019	IELTS : 6
2018	German Course Level A2 University of Freiburg

COMPUTER SKILLS

OPERATING SYSTEM
I use operating systems efficiently: Windows, Macintosh, iOS, Android. I have a good knowledge of Linux systems.
advanced level

PROGRAMMING LANGUAGE/CODE PROGRAMS/SOFTWARE
I have a fair knowledge of Python and SQL

I use the main program libraries such as Office, OpenOffice, Pages, Numbers, etc. efficiently.
advanced level

DATABASES
I have a good knowledge of SAS, Weka, PostGreSQL, basic experience in R
intermediate level

CAD
I use various CAD programs efficiently, through the experience gained during my course of study and during my internship (Autocad, Rhinoceros, Sketchup, Solidworks, etc.)
good level

GRAPHICS
I have a good knowledge of Photoshop and Illustrator.
intermediate level

SPREADSHEET
Efficiently use spreadsheet programs especially Excel and GIS databases.
good level

OTHER
I use several GIS programs efficiently, through the experience gained during my course of study and job (PNI, the majority of ESRI programs, QGIS, Geoserver, PostGIS, Infraworks, etc.)

PERSONAL SKILLS/OTHER SKILLS

In the High school period I participated during the summer holidays at exchange programs to learn English, allowing me to start having contact with environments outside my own and in general the Italian context.
I had several experiences abroad starting with an Erasmus exchange program from October 2017 to July 2018. Thanks to this time and later to others, I learned how well fit into multicultural environments.
I have been involved in various voluntary activities for different associations: Fondo Ambientale Italiano (FAI), the Italian Multiple Sclerosis Association (AISM), Campionissimi ONLUS (athletics for children with autism), parish summer centers, etc.
This allowed me to know how to adapt to different environments from the promotion of culture to contact with people physical and/or mental discomfort and to adapt to their

needs or to and make me listen at the appropriate time
I work well in a team thanks to my course of study.
I feel very well appropriate in problem solving.

OTHER INFORMATION

Driving license, own car

Available to travel on business in Italy, abroad

Available to relocate in Italy, abroad

PUBLICATIONS

2024   Stefano Cunietti, Chiara Sammarco, Ilaria Ferrando, and Domenico Sguerso (2024). "Integrating UAV Infrastructures in Urban and Rural Landscapes: A Framework for Sustainable and Inclusive Development". In XIV Biennale of European Cities and Urban Planners: Inclusive cities and regions, pag. 568–569, ISBN 978-88-7603-254-7

2024   Stefano Cunietti, Sammarco Chiara, Ilaria Ferrando, and Domenico Sguerso (2024). "Spatial Analysis for Urban Noise Management: Evaluating Respect Zones for Drone Operations UAS/UAM Noise Regulations Session". In Quietdrones Conference, University of Salford, Manchester (UK)

2023   Stefano Cunietti, Chiara Sammarco, Ilaria Ferrando, Domenico Sguerso (2023). "Urban Perspectives on UAVs Infrastructure Development". In SESAR Innovation Days conference

CONFERENCES

09/08/2024 - 09/11/2024   PhD student "Quietdrones Conference - Spatial Analysis for Urban Noise Management: Evaluating Respect Zones for Drone Operations UAS/UAM Noise Regulations Session" Salford University, Manchester, UNITED KINGDOM

04/22/2024 - 04/24/2024   PhD student "XIV Biennale of European Cities and Urban Planners: Inclusive cities and regions - Integrating UAV Infrastructures in Urban and Rural Landscapes: A Framework for Sustainable and Inclusive Development" University Federico II, Naples, ITALY

09/25/2023 - 09/27/2023   PhD student "2 Giorni Geomatica (2GG) - From Sky to Ground: Geomatics-Driven Drone Infrastructure Optimization" Arezzo, ITALY

✱ *Fields marked with an * are certified by Politecnico di Torino, while the potential thesis description is added by the candidate.*