


PERSONAL INFORMATION

Giovanni Caudullo

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Tax Code: CDLGNN74B07G224H

VAT: IT04145400281

Sex: M

Date of birth: 07/02/1974

Nationality: Italian

POSITION

Senior spatial analyst

WORK EXPERIENCES

From September 2009
To present

Senior Spatial Analyst Programmer

European Commission, Joint Research Centre (JRC) – Directorate D Sustainable Resources – Bio-Economy Unit

<http://forest.jrc.ec.europa.eu>

- Spatial data analysis from local to Europe-wide scale operating with spatial, temporal and climatic indicators
- Python scripting for modelling and batch processing of databases, vector and raster layers with ESRI, GRASS and GDAL libraries
- Reporting and mapping results
- Producing and editing layers for web portals

Business or sector: environmental and forest research

From September 2006
To present

Environmental and GIS consultant

Freelance

- Environmental Impact Assessment on vegetation, wild animals and ecosystems
- Land use survey, mapping and analysis: aerial photographic and satellite image interpretation
- Analysis of satellite multispectral images for vegetation assessment
- Wildlife spatial modelling
- Wild animal censuses

Business or sector: environmental assessment and management

From March 2003
To September 2006

Environmental and GIS specialist

Bioprogramm s.c., Via Lisbona 28/a, Padova (PD), Italy. Tel.: +39 - 049 - 8805544

www.bioprogramm.it

- Environmental Impact Assessments
- Environmental surveys and wildlife censuses
- High detailed map designing
- Spatial data collecting and management

Business or sector: environmental assessment and management

From September 2002
To March 2003

Internship c/o Fish and Wildlife Department

Provincia di Padova, Ufficio Caccia e Pesca, Piazza Bardella 2 - 3^a Torre Centro, 35131 Padova

<http://www.provincia.pd.it/index.php?page=caccia-pesca>

- Environmental surveys and wildlife censuses
- Spatial data collecting and management

Business or sector: wildlife and hunting

EDUCATION AND TRAINING

- May 2007 **Course of analysis and managing of geographic data with Open-Source GRASS software**
 Centro Interdipartimentale di Ricerca in Cartografia Fotogrammetria Telerilevamento e S.I.T. CIRGEO Legnaro (PD)
www.formazione.cirgeo.unipd.it
 ▪ Working on Linux OS
 ▪ Creating a GRASS project
 ▪ Open and editing spatial data
- July 2002 **Agronomy and Forestry Professional practice examination**
 Consiglio dell'Ordine Nazionale dei dottori Agronomi e dei dottori Forestali (CONAF)
 Via Po 22 - 00198 ROMA - Tel. 06-8540174
<http://www.conaf.it>
 Successfully passed
- March 2002 **Master's degree in Environmental and Forestry Science** EQF Level 7
ISCED Level 5
 Univesità degli Studi di Padova
 Padua, Italy
www.unipd.it
 Forestry and environmental assessment, agronomy, wildlife assessment, hydraulic engineer, environmental law and economics
- July 1993 **Scientific High School Diploma** EQF level 5
ISCED Level 3
 Liceo Scientifico Statale "E. Fermi "
www.liceofermipadova.gov.it

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2

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

Communication skills ▪ Excellent Italian communication skills thanks to the experience as self-employer, dealing with private companies and local authorities, both oral and written.
 ▪ Good English communication skills gained working an international environment such as the JRC.

Organisational / managerial skills I have a long experience as freelance, developing a strong skill in working alone or in multidisciplinary teams. I have good competences in coordination and management of projects, performing duties within time limits.

- Job-related skills**
- Procedures for measuring the river flow rate with propeller current meter
 - Water quality measuring with water pH, conductivity, oxygen, redox meters.
 - Use of GPS
 - Water supply procedures
 - Procedure for the electro-fishing census
- Computer skills**
- ESRI ArcGIS desktop: expert user, in particular Geoprocessing, Spatial Analyst, Map designing.
 - Python scripting: expert user for spatial analyses with ESRI, GRASS and GDAL libraries
 - GRASS GIS: good knowledge
 - Microsoft Office: proficient user of Word, in particular Excel and Access for spatial database
- Driving licence** Driving licence category B

ADDITIONAL INFORMATION

- Peer reviewed publications**
- Barredo, J. I., Caudullo, G., Dosio, A. (2016). **Mediterranean habitat loss under future climate conditions: Assessing impacts on the Natura 2000 protected area network**. Applied Geography 75, 83-92.
 - Barredo, J. I., Strona, G., de Rigo, D., Caudullo, G., Stancanelli, G., San-Miguel-Ayanz, J. (2015). **Assessing the potential distribution of insect pests: Case studies on large pine weevil (*Hylobius abietis* L) and horse-chestnut leaf miner (*Cameraria ohridella*) under present and future climate conditions in European forests**. Bulletin OEPP/EPPO Bulletin, 45(2), 273-281.
 - Caudullo, G. (2014). **Applying geospatial semantic-array programming for a reproducible set of bioclimatic indices in Europe**. IEEE Earthzine, 7(2), 877975+.
 - Estreguil, C., Caudullo, G., de Rigo, D. (2014). **Connectivity of Natura 2000 forest sites in Europe**. arXiv preprint arXiv:1406.1501.
 - Estreguil, C., De Rigo, D., Caudullo, G. (2014). **A proposal for an integrated modelling framework to characterise habitat pattern**. Environmental Modelling & Software, 52, 176-191.
 - de Rigo, D., Barredo, J. I., Busetto, L., Caudullo, G., San-Miguel-Ayanz, J. (2013). **Continental-Scale living forest biomass and carbon stock: a robust fuzzy ensemble of IPCC tier 1 maps for Europe**. In: Environmental Software Systems. Fostering Information Sharing. Springer Berlin Heidelberg, pp. 271-284.
 - Estreguil, C., Caudullo, G., de Rigo, D., Whitmore, C., San-Miguel-Ayanz, J. (2012). **Reporting on European forest fragmentation: Standardized indices and web map services**. IEEE Earthzine 5 (2), 384031+.
 - Caudullo, G., De Battisti, R., Colpi, C., Vazzola, C., Da Ronch, F. (2003). **Ungulate damage and silviculture in the Cansiglio forest (Veneto Prealps, NE Italy)**. Journal for Nature Conservation, 10(4), 233-241.
- Technical reports**
- Estreguil, C., Caudullo, G., Rega, C., Paracchini, M. L. (2016). **Enhancing connectivity, improving green infrastructure**. Scientific and Technical Research, EUR 28142EN, JRC 102149. Publications Office of the European Union, Luxembourg, 67 pp. ISBN 9789279626944. DOI: 10.2788/170924
 - Bastrup-Birk, A., Reker, J., Zal, N., Romao, C., Cugny-Seguín, M., Moffat, A., Herkendell, J., Abdul Malak, D., Tomé, M., Barredo, J. I., Loeffler, P., Ciccarese, L., Nabuurs, G.-J., Van Brusselen, J., Linser, S., Uhel, R., Meiner, A., Garcia-Feced, C., Aggestam, F., Barbati, A., Camia, A., Caudullo, G., Chirici, G., Ciccarese, L., Corona, P., Delbaere, B., de Rigo, D., Durrant, T., Eggers, J., Elmauer, T., Estreguil, C., Jones-Walters, L., Kauhanen, E., Konijnendijk, C., Kraus, D., Larsson, T.-B., Lindner, M., Linser, S., Lombardi, F., Marchetti, M., Mavsar, R., Pulz, H., Raitio, H., Rousi, M., San-Miguel-Ayanz, J., Schelhaas, M.-J., Schuck, A., Shannon, M., Zizenis, M., Mar. (2016). **European forest ecosystems - State and trends**. EEA Report No. 5/2016. Publications Office of the European Union, Luxembourg, 123 pp. ISBN 9789292137281. DOI: 10.2800/964893
 - de Rigo, D., Caudullo, G., Busetto, L., San-Miguel-Ayanz, J. (2014). **Supporting EFSA assessment of the EU environmental suitability for exotic forestry pests: final report**. EFSA Supporting Publications 11 (3): 434E, 55 pp. DOI: 10.2903/sp.efsa.2014.EN-434

Technical reports

- Ciscar, J.-C., Feyen, L., Soria, A., Lavalle, C., Raes, F., Perry, M., Nemry, F., Demirel, H., Rozsai, M., Dosio, A., Donatelli, M., Srivastava, A. K., Fumagalli, D., Niemeyer, S., Shrestha, S., Ciaian, P., Himics, M., Van Doorslaer, B., Barrios, S., Ibañez, N., Forzieri, G., Rojas, R., Bianchi, A., Dowling, P., Camia, A., Libertà, G., San-Miguel-Ayanz, J., de Rigo, D., Caudullo, G., Barredo, J. I., Paci, D., Pycroft, J., Saveyn, B., Van Regemorter, D., Revesz, T., Vandyck, T., Vrontisi, Z., Baranzelli, C., Vandecasteele, I., Batista e Silva, F., Ibarreta, D. (2014). **Climate Impacts in Europe - The JRC PESETA II project**. Scientific and Technical Research, EUR 26586EN, JRC 87011. Publications Office of the European Union, Luxembourg, 155 pp. ISBN: 9789279368332 DOI: 10.2791/7409
- Estreguil, C., Caudullo, G., San-Miguel-Ayanz, J. (2013). **Connectivity of Natura 2000 Forest Sites**. Scientific and Technical Research, EUR 2607EN, JRC 83104. Publications Office of the European Union, Luxembourg, 22 pp. ISBN 9789279325212 DOI: 10.2788/95065
- Estreguil, C., Caudullo, G., de Rigo, D., San-Miguel-Ayanz, J. (2012). **Forest Landscape in Europe: Pattern, Fragmentation and Connectivity**. Scientific and Technical Research, EUR 25717EN, JRC 77295. Publications Office of the European Union, Luxembourg, 18 pp. ISBN 9789279281181 DOI: 10.2788/77842
- Estreguil, C., Caudullo, G., Whitmore, C. (2012). **Habitat landscape pattern and connectivity indices: used at varying spatial scales for harmonized reporting in the EBONE project**. Alterra Report 2297, Alterra, Wageningen, 80 pp.

Date 11-01-2016

Signature

