PERSONAL INFORMATION	**Giovanni Caudullo**

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+39 347 1975000

giovanni.caudullo@gmail.com

Tax code CDLGNN74B07G224H | VAT IT04145400281

Sex M | Date of birth 07/02/1974

Nationality Italian

POSITION	Senior spatial analyst

WORK EXPERIENCE

From September 2009
To present

Senior Spatial Analyst Programmer
European Commission, Joint Research Centre (JRC)
http://forest.jrc.ec.europa.eu
- Spatial data analysis from local to Europe wide scale operating with geographic, 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
- Data mining, data preparation and databasing

Business or sector environmental and forestry 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 with orthophoto and satellite images
- Analysis of satellite multispectral images for vegetation assessment
- Wildlife spatial modelling

Business or sector environmental assessment and management

From March 2003
To September 2009

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 mining 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^ Torre Centro , 35131 Padova
http://www.provincia.pd.it
- Environmental surveys and wildlife censuses
- Spatial data management

Business or sector wildlife and hunting management

EDUCATION AND TRAINING

July 2002   Agronomy and Forestry Professional practice examination
Consiglio dell'Ordine Nazionale dei dottori Agronomi e dei dottori Forestali (CONAF)
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 www.unipd.it

Forestry and environmental assessment, agronomy, wildlife assessment, hydraulic engineer, environmental legislation 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	
C1	C1	C1	C1	C1
Replace with name of language certificate. Enter level if known.				

English

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, working with private companies and Public Authorities.
- Good English communication skills gained working in an international environment.

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

Computer skills
- ESRI Suite 10.x – Pro 2.x: Geoprocessing, Spatial Analyst, Map designing.
- Python 2.x – 3.x: spatial analyses with ESRI, GRASS, GDAL, Shapely, Fiona, Goggle Earth Engine, NetworkX, NetCDF4 libraries; statistical analysis with NumPy, SciPy, MarPlotLib, Pandas libraries.
- Javascript: applied to Goggle Earth Engine.
- GRASS GIS and QGIS: 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., Mauri, A., Caudullo, G. (2020). **Alpine Tundra Contraction under Future Warming Scenarios in Europe**. Atmosphere, 11(7), 698.
- Caudullo, G., Barredo, J. I. (2019). **A georeferenced dataset of drought and heat-induced tree mortality in Europe**. One Ecosystem, 4, e37753.
- Barredo, J. I., Mauri, A., Caudullo, G., Dosio, A. (2019**). Assessing shifts of Mediterranean and arid climates under RCP4.5 and RCP8.5 climate projections in Europe**. Pure and Applied Geophysics, 175, 3955-3971.
- Caudullo, G., Welk, E., San-Miguel-Ayanz, J. (2017). **Chorological maps for the main European woody species**. Data in brief, 12, 662-666.
- 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 horsechestnut 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., De Rigo, D., C audullo, 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, 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) Italy)**. Journal for Nature Conservation, 10(4), 233-241.

Books

- Caudullo, G., Nakada, R., Da Ronch, F. (2018). *Larix kaempferi* **(Lambert) Carrière, 1856**. Enzyklopädie der Holzgewächse: Handbuch und Atlas der Dendrologie, 1-18.
- San-Miguel-Ayanz, J., de Rigo, D., Caudullo, G., Houston Durrant, T., Mauri, A. (Eds.) 2016. **European Atlas of Forest Tree Species**. Publication Office of the European Union, Luxembourg.
- Estreguil, C., Caudullo, G. 2015. **Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems - Indicator 4.7: Landscape pattern**. In: Forest Europe. State of Europe's Forests 2015. Ministerial Conference on the Protection of Forests in Europe, Madrid: 152-154.
- Estreguil, C., Caudullo, G. 2011. **Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems - Indicator 4.7: Landscape pattern**. In: Forest Europe, UNECE, FAO. State of Europe's Forests 2011 - Status and Trends in Sustainable Forest Management in Europe. Ministerial Conference on the Protection of Forests in Europe, Madrid: 84-87.