Cristiano Giovando

Geospatial Technology Specialist
Turin

Summary

Cristiano is a technology innovator and mapping specialist at the
World Bank. With 15 years of international experience in the field of
geographic information, he applies the principles of open data and
open source software to disaster risk management and humanitarian
projects.

Experience

World Bank Group
Geospatial Technology Specialist
December 2015 - Present (5 years 9 months)
Turin Area, Italy

• Coordination and advising on geospatial technology for World Bank projects
in Europe, Africa, Southeast Asia, and the Pacific;
• Management and coordination of GeoNode development contracts;
• Advising on OpenStreetMap technology and data for community mapping
projects;
• Development of mapping workflows with UAVs and machine learning
technology;
• Management and coordination of aerial survey contracts.

Humanitarian OpenStreetMap Team
6 years 9 months

Senior Technical Advisor
July 2018 - Present (3 years 2 months)
Turin Area, Italy

• Advisor for the "Missing Million" project (in partnership with Oregon State
University and Development Seed, funded by NASA) with the objective of
mapping informal settlements using crowdsourcing and machine learning;
• Support on imagery related needs for humanitarian mapping projects.

Project Manager
December 2014 - June 2018 (3 years 7 months)
Greater San Diego Area

• Coordination of the design process and development of OpenAerialMap.org, an open source platform for sharing satellite, aerial and UAV imagery;
• Research and development of crowdsourced damage assessment methods from satellite imagery through the RAD-Crowd and Crowd4SAT projects;
• Design and development of the Pacific Drone Imagery Dashboard (PacDID).
• Led the design and coordinated development of osm-analytics.org

KAjO
Geospatial Technology Consultant
April 2019 - March 2020 (1 year)
Greater Turin Metropolitan Area

Design and development of global exposure datasets derived from OpenStreetMap in support of JRC/EU disaster risk information platforms.

Terrapan Labs
Co-Founder
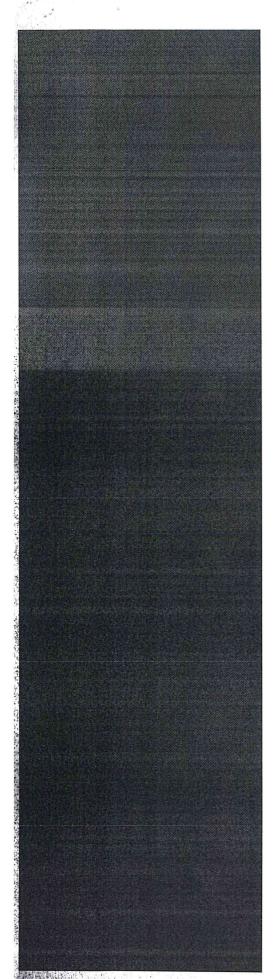January 2008 - December 2016 (9 years)
Greater San Diego Area

Terrapan Labs pioneered the development of small unmanned aerial vehicles for mapping. As co-founder and geospatial lead, I was responsible for managing aerial surveys and develop orthoimagery products for engineering, planning and research projects.

Leighton Group
GIS Specialist
2012 - 2014 (2 years)
Greater San Diego Area

GIS design and modeling for geotechnical and environmental projects.

European Commission, Joint Research Centre
Scientific Officer
March 2008 - March 2011 (3 years 1 month)
Ispra, Italy

At the JRC I joined the development team of the European Forest Fire Information System (EFFIS) which provides real-time mapping of wildfires in Europe. I was responsible for the design and development of the new EFFIS portal which includes a modern and user-friendly Web mapping application and for publishing of interoperable geodata services. I also developed automated processing chains for publishing MODIS daily composite mosaics, hotspots, burned areas and aggregated fire news. As part of the fire season operational activity, I supported the European Monitoring Information Centre

(MIC) and member state civil protection agencies with real time reports on major fire events.

SDSU Research Foundation
Research Specialist II
October 2007 - January 2008 (4 months)
Greater San Diego Area

• A 3-month project funded by the White House Office of National Drug Control Policy (ONDCP) with the purpose of developing a prototype spatial decision support system for the Counter-Drug Technology Assessment Center (CTAC);
• As the project coordinator I was responsible for the design and development of the system, including geo-visualization and automatic data mining tools.

HELIX Environmental Planning, Inc.
GIS Specialist
April 2007 - October 2007 (7 months)

Duties: spatial analysis, geoprocessing, map design and production, development and management of GPS data collection workflow. Projects: several habitat mitigation and monitoring plans throughout San Diego County, SDG&E Sunrise Powerlink Project vegetation and alternatives mapping, Environmental Impact Reports (EIR) and permitting.
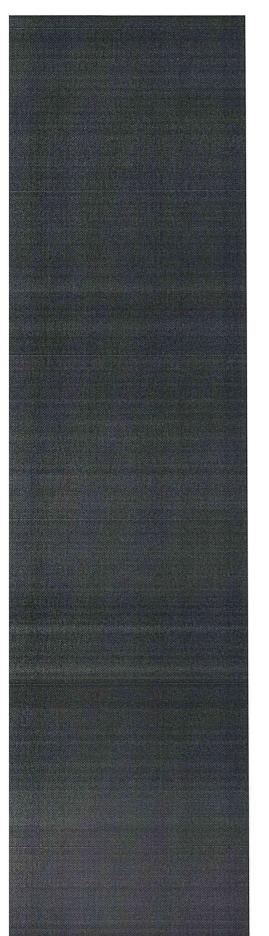
San Diego State University
Research Assistant
August 2004 - April 2007 (2 years 9 months)
Greater San Diego Area

• Conducted research activities for the REASoN Project, funded by NASA and the U.S. Border Patrol, with the objective of developing a Border Spatial Decision Support System (BSDSS);
• Research tasks included data mining of apprehension records, geo-visualizations, automatic semantic matching of multilingual data sources, migration pattern analysis;
• Dissemination of results through publications and conference presentations.

Global Imaging, Inc
GIS Consultant
January 2006 - June 2006 (6 months)

Web GIS prototyping and development using open source software.

SANDAG

Research Technician
February 2006 - May 2006 (4 months)

While on this temporary appointment, I provided GIS support to the SANDAG Service Bureau, transportation and planning departments. Duties included: data creation, geoprocessing, and cartographic production for the Regional Transportation Plan and Smart Growth Incentive Program.

Geographical Information Systems International Group
GIS Consultant
December 2003 - February 2005 (1 year 3 months)

Coordination of the local node of the Nature GIS project, a thematic SDI for protected areas and nature preservation which was selected as one of the early prototypes for demonstrating the implementation of INSPIRE. Main duties included database design, map server setup, coordination with stakeholders and project partners and dissemination of results.

University College London
Research Assistant
April 2004 - August 2004 (5 months)
London, United Kingdom

• Acquisition, mosaicing and processing of global Landsat and SRTM datasets;
• Design and creation of the ICEDS geoportal (iceds.ge.ucl.ac.uk);
• Setup of OGC compliant WMS and WCS services.
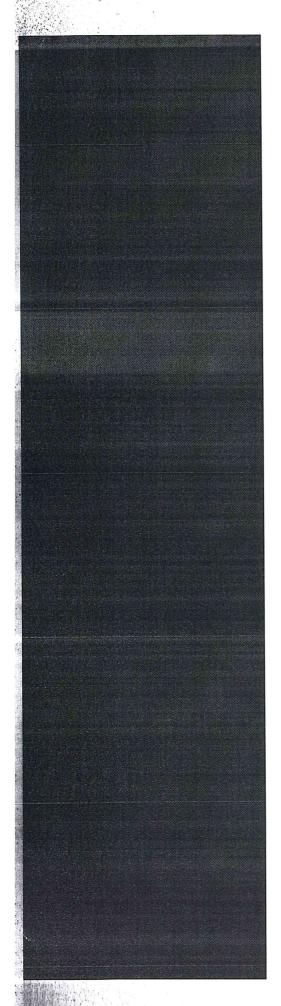
European Commission, Joint Research Centre
Stagiaire
January 2003 - October 2003 (10 months)
Ispra, Italy

• Research on the implementation of OGC standards in Europe;
• Support drafting of the INSPIRE Directive for a European SDI;
• Setup and testing of Web Map Service software compliance.

Studio Arctea
GIS Consultant
October 2002 - December 2002 (3 months)
Turin Area, Italy

• Processed and geo-referenced satellite imagery of Niamey, Niger
• Created landcover classification from satellite and aerial imagery

Education

San Diego State University-California State University
M.S., Geographic Information Science · (2011)

Westfälische Wilhelms-Universität Münster
Exchange Semester, Geo-Informatik · (2005)

Politecnico di Torino
B.S., Geographic Information Systems · (2003)

Universiteit Utrecht
Exchange Semester, Geography · (2002)

Liceo Classico "C. Botta"
Diploma, Maturita' Classica · (1998)