

WORK EXPERIENCE

Research Grant - National Research Council - **10/2020 – CURRENT**

Activities: Analysis of multi-source Earth Observation (EO) data for the monitoring of ecosystems, including polar ones, with attention to carbon flows and related indicators related to the Sustainable Development Goals (SDGs). Development in R environment of algorithms for extracting information layers from satellite image datasets.

Institute of Atmospheric Pollution Research (IIA), National Research Council (CNR), c/o Interateneo Physics Department, Via Amendola 173, 70126 Bari, Italy

External collaborator - Gran Paradiso National Park - **20/07/2020 – CURRENT**

Cumulative temporal and spatial analysis of the anthropogenic impacts present within the Park. Drafting of thematic maps, useful for the territorial management of the Park.

GIS analyst - Timesis s.r.l. - **01/2020 – CURRENT**

Occasional self-employment contract of professional type.

Activities: Territorial analysis consultancy in GIS environment and return of thematic maps.

www.timesis.it - via Massena 7, 10128, Turin, Italy

GIS / Remote sensing specialist - ITHACA - Information Technology for Humanitarian Assistance, Cooperation and Action - **02/2019 – 09/2020**

Activities: Rapid mapping activity by means of remote sensing techniques, under EU Copernicus Emergency Management Service, in support of environmental emergencies for disaster preparedness and response.

<http://ithacaweb.org/> - Via Pier Carlo Boggio, 61, Torino TO, 10138, Turin, Italy

External collaboration - SEAcop STP - **11/2018 – 02/2019**

Occasional self-employment contract of professional type.

Activities: Consultancy activities in the environment and ecosystem services field. Environmental analysis through GIS environment. Technical proposals activity for the tender Horizon 2020.

www.seacoop.com - C.so Palestro 9, 10122, Turin, Italy

External collaboration - University of Turin - **11/2018 – 12/2018**

Activities: Bibliographic Reference Tutorial for Masters students in Cellular and molecular biology, Department of Life Sciences and Systems Biology.

External collaboration - SEAcop STP - **10/2017 – 01/2018**

Activities: Monetary and biophysical assessment of ecosystem services provided by a peri-urban area in Piedmont, also in GIS environment.

www.seacoop.com - C.so Palestro 9, 10122, Turin, Italy

EDUCATION AND FORMATION

II level Master's Degree in GIScience and Remote Piloting Systems for the integrated management of land and natural resources - EQF level 8 - **11/2017 – 09/2018**

University of Padua

Curriculum: Production and management of geo-information.

Final project: "Use of open-source data for the mapping of Habitats in the Po River - Vercellese Alessandrino SPA".

Curricular internship (450 hours) at ENEA, Biodiversity and Ecosystem Services Laboratory, Saluggia (VC), Italy. Activities: Mapping of Habitat through open-source data, analysis and comparison of LU/LC legends. Analysis in a GIS environment.

Master's Degree in Environmental Biology – (LM 6) - EQF level 7 - 10/2014 – 07/2017

University of Turin

Degree mark: 110/110

Curriculum: Environmental and land management.

Thesis: "Analysis and evaluation of ecological reticularity and ecosystem services in the Stura di Lanzo, Malone and Orco basins (Piedmont)".

Curricular internship (225 hours) at ENEA, Biodiversity and Ecosystem Services Laboratory, Saluggia (VC), Italy. Activities: Ecological network analysis and ecosystem services assessment in three contiguous watersheds, located in Piedmont, conducted in GIS environment.

Bachelor's Degree in Biological Sciences – (L-13) - EQF level 6 - 10/2010 – 09/2013

University of Turin. *Curriculum*: Molecular and cellular biology. Degree mark: 97/110. Supervisor: Dr. Andrea Occhipinti

LANGUAGE SKILLS

MOTHER TONGUE: **Italian**

OTHER LANGUAGE: **English**, level: intermediate, First Certificate in English (FCE) – EXOL Cambridge University

PUBLICATIONS

Richiardi C., Blonda P., Rana F.M., Santoro M., Tarantino C., Vicario S., Adamo M. (2021). A Revised Snow Cover Algorithm to Improve Discrimination between Snow and Clouds: A Case Study in Gran Paradiso National Park. *Remote Sensing*. 2021; 13(10):1957. <https://doi.org/10.3390/rs13101957>.

Balbo S., Di Ciollo C., Elia A., Richiardi C., Labartino M., Pasquali P., Cotrufo S., Arco E., Morreale S., Monaco C. and Grita S. (2020). *Transizione da Software Proprietario a FOSS per un Servizio di Cartografia*. Atti del convegno FOSS4G Italia 2020, 18-22 Febbraio, Torino.

Minciardi M.R., Richiardi C., Poma S., Alberico S., Ciadamidaro S., Rossi G.L., Grasso S., Vayr P. (*in press*). *Ecological networking assessment to evaluate ecosystem services and improve green infrastructure*. Atti del X Congresso IALE, Nature and Society facing the Anthropocene Challenges and Perspectives for Landscape Ecology, 1-5 Luglio 2019, Milano.

Richiardi C. e Minciardi M.R. (2018). *Applicazione di metodi biofisici e monetari di valutazione dei servizi ecosistemici nei bacini di Stura di Lanzo, Malone e Orco (TO)*. Atti del IV Convegno italiano sulla riqualificazione fluviale, 22-26 Ottobre 2018, Bologna, pp. 155-158.

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JOB-RELATED SKILLS

Excellent ability to manage geodata and to conduct analysis in GIS environment (i.e. QGIS, ArcGIS, GDAL libraries), as well as to analyze of satellite imagery (i.e. ENVI, SNAP, OTB). Good knowledge of the main Land Use/Land Cover (LULC) classification systems. Great ability to analyze data and write reports and scientific publications. Good knowledge of Natura 2000 Directive framework. Excellent ability to learn quickly new skills.

Programming skills: R autonomous, Python beginner, Docker beginner.

ORGANISATIONAL SKILLS

Excellent ability to self-organize work and projects developed in the years of study and subsequent work activities, especially after more than a year of remote work. Organizational and management skills of events acquired thanks to the experience gained in scouting. Excellent ability to meet deadlines and deliveries.

COMMUNICATION AND INTERPERSONAL SKILLS

Excellent communication skills and flexibility skills developed during years of volunteering in the educational field, strong sense of responsibility and ability to work in groups and manage teams acquired during the work experience at ITHACA. Good communication skills in exposing scientific data through PowerPoint® presentations, both in Italian and in English.

HONOURS AND AWARDS

2021, Contest 'Envisioning Torino', Nexto Masterplan Project, AgriTurin - The productive city. Team work first place. The competition aims to think about the possibility of setting up a research center on the implementation and application of the IoT in agriculture, with particular reference to the possibilities of precision farming and the protection of local agricultural biodiversity.

2018, Award for the Master Degree Thesis in memory of Antonio and Luigi Goi XIII edition - University of Brescia. Thesis title: "*Analysis and evaluation of ecological reticularity and ecosystem services in the Stura di Lanzo, Orco and Malone (Piedmont) basins*", A.Y. 2016/2017.

CONFERENCES AND SEMINARS

- **Environmental sustainability of extensive livestock systems in Italy**, February 24, 2021, University of Tuscia, online
- **GeoNode Summit**, March 26 - 28, 2018, Turin
- **World Forum on Natural Capital**, November 27-28, 2018, Edinburgh
- **SIL Congress**, 31 July - 5 August 2016, Turin International Society of Limnology (SIL) Science for sustainable freshwater use

COURSES

- **Environmental Valuation and Accounting (EVA)**, II edition, Jean Monnet Module funded by the European Union and coordinated by the University of Genoa, 2021.
- **Echoes in Space** - Radar Remote Sensing course, EO College, 2020.
- **Object-based Image Analysis (OBIA) with GRASS and R** - Turin, February 18, 2020, FOSS4G Italy Workshop.
- **Introduction to GRASS** - Turin, February 18, FOSS4G, 2020 Italy Workshop.
- **Introductory scripting and pyqgis course in QGIS 3** - Turin Polytechnic, 1-2-3 October 2019, Turin.
- **Gran Paradiso Summer School 2019** - Fundamental Processes in Earth System Dynamics, Critical Zone and Ecosystem Dynamics across Space and Time, Ceresole Reale (Piedmont, Italy), 8-17 July, 2019.
- **Extend QGIS with python** - Turin Polytechnic, 8 June 2019, Turin.
- **"Invasive alien species: what and how to communicate to the general public"** - Valsavaranche (AO) Life Alien Species Awareness Program (ASAP), Training course, 16-17/10/2017.
- **An Introduction to the Natural Capital Approach** - Stanford University online courses. 2017.
- **Recognition of trees and shrubs** - Course of the Italian Naturalists Association (AIN), Department of Life Sciences and Systems Biology, via Accademia Albertina, 13, Turin. 2016.
- **Recognition of aquatic macrophytes** - Course of the Italian Naturalists Association (AIN), Department of Life Sciences and Systems Biology, via Accademia Albertina, 13, Turin. 2016.

PROTECTED CATEGORY LAW 68/99 Civil invalidity (67%) - Upper left forearm agenesis

REFERENCES References available on request.

HOBBIES & INTERESTS Naturalistic photography, beekeeping, trekking, ski, reading, camping, cooking, travelling.

PERSONAL DATA I authorize the processing of my personal data in the CV pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and the GDPR (EU Regulation 2016/679).