

Curriculum vitae

Marco Ciolli

1 Curriculum

1.1 Biography

- Born in Firenze (Florence, Italy) 12/5/1964,
High school diploma 1983, Liceo Classico “Galileo”, Florence
- Degree in Forestry 1991, Faculty of Agronomy, University of Florence 110 summa cum laude
- 1992 one year at Sylviculture Department of Comunità Montana del Casentino (AR, Italy).
- 1993 Professional qualification (Abilitazione professionale)
- 1993-2001 research fellow with PhD and post-doc scholarships at DICA, Department of Civil and Environmental Engineering, University of Trento.
- 1998 **PhD** in Forest Assessment and Planning, University of Tuscia, Italy
- 1999 to 2009 Coordinator of the Natural Science area of SSIS (University School of Teachers Education) of Rovereto.
- **Current position: Assistant Professor** (Professore Aggregato) since 2002 at DICA Trento he taught courses, participated in and coordinated many research projects and published relevant papers.
- **Affiliations:** DICAM Department of Civil Environmental and Mechanical Engineering, University of Trento and C3A Center Agriculture Food Environment - joint research and education center between the University of Trento and Fondazione Edmund Mach, FEM
- **ASN Abilitazione Scientifica Nazionale** - National Scientific Qualification 2016 as **Associate Professor** obtained, Bando D.D.1532/2016 Settore Concorsuale 07/B2 Scienze e Tecnologie dei Sistemi Arborei e Forestali, Fascia: II Valid from 31/03/2017 to 31/03/2023 (art. 16, comma 1, Legge 240/10)

1.2 Research interests

- Applied ecology, Planning and management of natural resources, GIS Modelling of natural resources management and renewable energy development (forest biomass, solar), Landscape ecology, Forest change scenarios, Markov chain modelling in forestry, Remote Sensing, Forest cartography, Floristic inventories, Ecological informatics, Alien Species, Tropical Ecology, Wildlife conservation, Camera traps, Ecosystem Services, Traditional Ecological Knowledge.

1.3 Activity as a referee

- Member of the Advisory Review board of the international Journal iForest - Biogeoscience and Forestry (SISEF) since 2010
- Since 2012 referee for PRIN (Research Programs of National Relevance) COFIN and FIRB projects.
- Member of the Editorial committee of Dperendronatura since 2006
- Guest editor of the journal International Journal of Environmental Research and Public Health for the special issue: Feature and future papers.
- Referee: Springer Journals: Biodiversity and Conservation, Environmental Management, Applied Geomatics; Biological Conservation, Acta Physiologiae Plantarum, Applied Geography; Elsevier Journals: Landscape and Urban Planning, Urban Forestry & Urban Greening, Science of the Total

Environment; Others: African Journal of Agricultural Research, Remote Sensing (MDPI), Journal of Integrative Environmental Sciences (Taylor & Francis), Geomatics Workbooks, Forest@, International Journal of Biodiversity and Conservation, Journal of Mountain Science.

1.4 Member of Bodies, organizations

- Member and co-chair of the UNESCO Chair in Engineering for Human and Sustainable Development, University of Trento since 2011.
- Member of OSGEO association (Open Source Geospatial Foundation), and member of Geoforall and of Education and curriculum committee of OSGEO association.
- Charter member and co-funder of the Italian OSGEO chapter.
- Member of Geoforall "Geo for All" the Open Source Geospatial Foundation's Open Educational outreach with partners worldwide with the mission for making geospatial education and opportunities since 2016
- Member of CUDAM University Centre for Advanced Studies on Hydrogeological Risk in Mountain Areas, Centre of excellence of <https://www.youtube.com/watch?v=Y8k3ujc7coAe> Italian Ministry for Education, University and Research.

1.5 Academic and Institutional activity

1.5.1 Courses and didactic activity coordination

- **Teaching hours:** According to paper and electronic didactic activity official registers of University of Trento Marco Ciolli taught different courses for a total of around 1900 hours since 2002.
- **Since 2016 Professor of Field sampling and Spatial Ecological Modelling** PhD course (40 hours) at Doctoral School in Environmental Engineering, University of Trento.
- **2011-2016** in the frame of Unesco Chair he directed, organized and taught the Summer School: "Tropical rainforest biodiversity: field and GIS tools for assessing, monitoring and mapping" Udzungwa Mountains National Park, Tanzania in partnership with Museo delle Scienze di Trento, Tanzania National Parks, Danish Museum of Natural History, University of Copenhagen, Wildlife Conservation Society. A total of 110 Learners attended the 2011-12-13-15-16 editions.
- **2011-2016** he contributed to design TFA and PAS (University Courses for Teachers with Tirocinium) at University of Trento, coordinated tutors and supervisors, was President and Member of the national examination commission for Natural science and taught the courses: **Laboratori didattici di biologia, scienze della vita e scienze naturali** (12 hours), **Didattica delle scienze per la SSIG** (16 hours), **Didattica delle scienze per la PAS** (12 hours).
- **Since 2010 Professor of Applied Ecology (Ecologia Applicata)** (60 hours) **master degree course of Environmental Engineering, University of Trento, DICAM.**
- **2008-2012 Professor of Ecology for economists (Ecologia 2)** (40 hours) Master degree course in Economy and Management of environment and tourism, Faculty of Economy of Trento.
- **Since 2007 Professor of Environmental data management and analysis** (60 hours) PhD course at Doctoral School in Environmental Engineering, University of Trento.
- **2005-2010 Professor of the module of Ecology (Ecologia)** TPALL degree course: Tecniche della prevenzione nell'ambiente e nei luoghi di lavoro (40 hours), organized by Universities of Trento and Verona.
- **2005-2010** he taught the Course: **Ecologia dei paesi Tropicali e subtropicali** (20 hours) (corsi di laurea triennale) credits type F.
- **2002-2010 Professor of Ecological and Sustainable Planning of Forest Landscape** (60 hours) (Pianificazione Ecologica del Territorio Forestale) Master Degree in Environmental Engineering,

Faculty of Engineering Trento.

- **2004-2007** DICA appointed him the responsibility to teach the courses: **GIS e Telerilevamento, Botanica, Interazione genotipo ed ambiente** (30 hours each), in the frame of the master degree "Viticoltura, Enologia e Mercati Vitivinicoli", organized by a consortium of University of Trento, University of Padova, University of Trieste and Istituto Agrario di S. Michele all'Adige.
- **2000-2002 Professor in the course: Pianificazione Ecologica del Territorio Forestale.** (20 hours module of 60 total hours) Corso di Laurea in Ingegneria per l'Ambiente e il Territorio dell'Università di Ingegneria di Trento, while from 1996 to 2000 he collaborated in didactic activity as tutor, assistant lecturer (esercitatore) and examiner.
- **Since 1996** He covered the role of examiner for Corso di Tecnologia del Legno e dei Materiali Legnosi.
- **1999-2009** he contributed to design the scientific program and content of Rovereto SSIS (University School of Teachers Education) of the University of Trento and was **responsible for didactic in Natural Science** coordinating the work of tutors and supervisors. He taught the courses: **Didattica delle Scienze** (24 hours), **Ecologia** (60 hours), **Ecologia Applicata** (24 hours), **Sviluppo Sostenibile** (24 hours), **Ecologia e Sviluppo Sostenibile** (24 hours), **Botanica** (24 hours), **Temi didattici e piani di studio** (24 hours), **Aspetti pedagogici dell'insegnamento delle scienze** (24 hours), **Tecnologie informatiche per la didattica delle discipline scientifiche** (20 hours). He coordinated the careers and curriculum of the students and was President and Member of the national examination commissions.

1.5.2 PhD membership

- **Since 21-03-2019 Member of Doctoral School Committee of "Scienze Agroalimentari e Ambientali - Agrifood and Environmental Sciences"** [DOT19FPJLR] Università degli Studi di Trento
- **From 01-01-2013 to 20-03-2019 Member of the Doctoral School Committee** of "Ingegneria Civile, Ambientale e Meccanica" [DOT1362534] Doctoral School in Environmental Engineering - Università degli Studi di Trento

1.5.3 Student tutorship

- **PhD tutor** of Pietro Zambelli XXVI cycle, Gianluca Grilli and Nathalie Cavada XXIX cycle, Robert Malek XXXI cycle, Stefano Gobbi, Andrea Corradini, Sabina Avosani, Chammem Hamza, Imane Akassou XXXII cycle and tutor of Andryei Bulgan University of Ulan Bator, (Mongolia), in the frame of Erasmus Mundus programme. A sample of published supervised thesis: Pietro Zambelli: A spatial decision support system to assess personal exposure to air pollution integrating sensor measurements <http://eprints-phd.biblio.unitn.it/1490/> Gianluca Grilli: Cost-Benefit analysis using Gis: an application to the forest Bioenergy sector http://eprints-phd.biblio.unitn.it/1970/1/Grilli_tesi.pdf Nathalie Cavada: Modelling environmental changes in the Udzungwa Mountains of Tanzania through impact assessment on rainforest mammals <http://eprints-phd.biblio.unitn.it/2594/> Robert Malek: Novel Monitoring and Biological Control of Invasive Insect Pests <https://iris.unitn.it/retrieve/handle/11572/257781/318633/Robert%20Malek%20Dissertation%20University%20format.pdf>
- Referee for Doctoral Thesis for Università Politecnica delle Marche (AN) and Università dell'Insubria (VA).
- **Supervisor** of more than **43 Master's thesis Students** and more than **17 Bachelor's degree** at DICAM. A partial list here: <https://webapps.unitn.it/du/it/Persona/PER0003808/Tesi>
- **2018** he supervised the Traineeship of an Erasmus Student of Université Toulouse III (France).

1.5.4 Research Fellowship responsibility and supervision

- 2020** Supervisor and responsible for the funding of the Research Fellowship - Assegno di Ricerca (agr05, 07B2): Research support in the project Holistic resilience for the mapping of data and information to implement insurance schemes for forests in mountain environments. 12 months at the Laboratory of Ecology of the University of Trento in the framework of HOLISTIC RESILIENCE EIT CLIMATE-KIC project.
- 2020** Supervisor and responsible for the funding of the Research Fellowship - Assegno di Ricerca (agr05, 07B2): Reconnecting City Landscape and Ecosystem to rural and periurban areas: role and potentials of local food systems. 12 months at the Laboratory of Ecology of the University of Trento in the framework of SATURN EIT CLIMATE-KIC project.
- 2019** Supervisor and responsible for the funding of the Research Fellowship - Assegno di Ricerca - 12-month at the University of Trento within the 'Temporary Protection Project SAR-UniTrento'
- 2019** Supervisor and responsible for the funding of the Research Fellowship - Assegno di Ricerca (agr05, 07B2): Reconnecting City Landscape and Ecosystem to rural and periurban areas. 24 months at the Laboratory of Ecology of the University of Trento in the framework of SATURN EIT CLIMATE-KIC project.
- 2018** Supervisor and responsible for the funding of the Research Fellowship - Assegno di Ricerca (agr05, 07B2): Research regarding standard methods to evaluate the effects of disturbance factors following 2011/484/UE, for impact assessment through a QGIS plugin for light, thermic pollution, water noise, soil dynamics, marine sediments. 13 months at the Laboratory of Ecology of the University of Trento in cooperation with Regione Veneto.
- 2016** Supervisor and responsible for the funding of the Research Fellowship - Assegno di Ricerca (agr05, 07B2): Research regarding standard methods to evaluate the effects of disturbance factors following 2011/484/UE, for impact assessment through a QGIS plugin. 18 months at the Laboratory of Ecology of the University of Trento in cooperation with Regione Veneto.
- 2015** Supervisor and responsible for the funding of the Research Fellowship - Assegno di Ricerca (agr05, 07B2): Renewable Energy and Ecosystem Services: a Trade-off Analysis, 18 months at the Laboratory of Ecology of the University of Trento in cooperation with Eurac Research EURAC.
- 2013** Supervisor and responsible for the funding of the Contract Realizzazione di un WEBGIS per la valorizzazione di dati vegetazionali geografici storici. 8 months at the Laboratory of Ecology of the University of Trento in the framework of FORCING CARITRO project
- 2010** Supervisor and responsible for the funding of the Scholarship (agr05, 07B2): Modelli GIS per la disponibilità di biomassa forestale per la produzione energetica in Trentino 18 months at the Laboratory of Ecology of the University of Trento in the framework of Biomassfor CARITRO project
- 2008** Supervisor and responsible for the funding of the Scholarship (agr05, 07B2): Modelli GIS per la disponibilità di biomassa forestale per la produzione energetica in Trentino 6 months at the Laboratory of Ecology of the University of Trento

1.5.5 Visiting professor and other appointments

- **From December 2019 to January 2020** Marco Ciolli was invited as **Visiting Professor** at the Department of Biology, Faculty of Science, Burapha University (BUU) Saen Suk (Chonburi Province - 20131) Thailand. He served as Advisor for the project "Analysis, monitoring and prediction of water quality for sustainable land use of the river basin system in Eastern Economic Corridor (EEC)" research program through National Research Council of Thailand, Burapha University, collaborated on projects related to Geomatics, Ecology, Conservation Biology and Forestry. Marco Ciolli organized and taught a Workshop in GIS at the Geoinformatic Faculty of Burapha University.
- **Since 2019 Scholars At Risk (SAR)** - DICAM and C3A **Delegate** and supervisor of research

fellowship at C3A Responsible in the frame of Project Scholars at Risk with C3A - Protecting scholars and the freedom to think, question, and share ideas.

- **Since 2018** he is member and active participant of two “Laboratori interdipartimentali” FAMA (Rete/Laboratorio per lo studio e la valutazione delle Fragilità in Ambiente Montano Alpino) and UNITN4D (UNITN for Development) of the University of Trento.
- **In 2018** he activated an Erasmus+ with the Universidad de las Palmas de Gran Canaria
- 2008, 2009, 2010, 2011 He taught invited lessons at Università di Roma and Università di Genova.

1.6 Student evaluation of Applied Ecology Course

Last available results from university of Trento survey

AA 2018-19	Evaluation (%) Are you satisfied of the course?
140251 Course Ecologia applicata (Applied Ecology)	100
Media Corso di studio - Average of the courses of the Master degree % (LM CDS_332H Ingegneria per l'ambiente e il territorio)	85

Applied Ecology average evaluation 2006-2019 = 100 %holistic resilience

1.7 Technology transfer, education and capacity building

- He is participating and coordinating actions in cooperation projects in the Kilombero Valley, Tanzania and in Vietnam regarding the Measure of Cooking Stoves Pollution using Self Built Arduino Based Sensors in rural areas and a study on Agroforestry in the area of Mangula, Tanzania in order to improve local living conditions and health with Mazingira Association.
- **2014**, 4-5 August **Citizen panel**: Gruppo di lavoro per la definizione di alternative sostenibili per l'uso di energie rinnovabili nel Parco delle Alpi Marittime incontri a Valdieri (CN) Tavolo con politici, stakeholders e cittadini. Frame: recharge.green project, 80 Participants.
- **2014**, 4-6 June **Citizen panel**: Gruppo di lavoro per la definizione di alternative sostenibili per l'uso di energie rinnovabili nel Bellunese, Incontri a Longarone e Agordo (BL) Tavolo con politici, sindaci, stakeholders e cittadini. Frame: recharge.green project, 100 participants.
- **2013**, 21 September **Citizen panel**: Gruppo di lavoro per la definizione delle alternative sostenibili per lo sviluppo del paese di Montagne (Trento) con Elena Ianni. Tavolo con politici, sindaco, stakeholders e cittadini, 50 participants.
- **2013** He organized the **Course Biodiversity monitoring techniques and standardization across TANAPA forest parks: training course for forest Park Ecologists** of TANAPA (Tanzania National Parks): held in August 2013. 24 Tanzanian Ecologists attended the course.
- **2010** He organized and taught the **Training course** in GIS Geographic Information System with elements of GPS, May 2010 Byumba, District of Gicumbi, Northern Province, Rwanda, Africa; 20 Local Professionals, technicians and educators attended the course.
- **From 2008 to 2010** he participated in a cooperation project in Rwanda aimed to improve local technical knowledge, provide energy and improve forest sustainability.
- **Since 2003 director and teacher of the course GRASS and OPEN SOURCE GIS: theory and applications**, University of Trento, DICAM, CUDAM, held each year. A total of 430 Learners attended the different editions of the course.
- **2005**, 26-27 September he organized the course: **Dendrocronologia e GIS, tecniche innovative per lo studio e la caratterizzazione di fenomeni geomorfologici**, Trento and Val di Pejo, Università of Trento, DICA, CUDAM Centro per la Difesa idrogeologica dell'Ambiente Montano, 10 Participants.

1.8 Conference organization

- Academic committee chair and Local Organizer of the FOSS4G 2022 Florence - Italy
- Organizer and Scientific committee member of the IV Convegno Italiano sui Chiroterri, Padova 17-19 October 2019 Gruppo Italiano Ricerca Chiroterri and Associazione Teriologica Italiana
- He organized a Panel session of the PECSRL (Permanent European Conference for the Study of the Rural Landscape) biennial International conference “Mountains, uplands, lowlands. European landscapes from an altitudinal perspective”, Innsbruck and Seefeld, Austria 5-9 September 2016
- Co-Organizer of the Workshop: “La Carta Forestale del Regno d’Italia: 80 anni di evoluzione delle foreste italiane” Firenze, Giovedì 4 febbraio 2016 Accademia Italiana di Scienze Forestali
- III Convegno Italiano sui Chiroterri (Trento), 9-11 October 2015.
- Organizer and Scientific committee of the conference: Energy and nature in the Alps: a balancing act - recharge.green final conference, 20-21 May 2015 Sonthofen, Germany
- XVII Italian Ornithological Conference Trento 11-15 September 2013.
- XII Meeting of Italian GRASS and GFOSS users, Trento, February 9-1, 2011
- International conference *Open Source Free Software GIS GRASS users conference 2002* 11-13 September 2002 Trento.
- II Meeting of Italian GRASS users, Trento, February 1-2, 2001
- Convegno Sistemi Informativi Territoriali in Trentino: dai sistemi alle applicazioni Trento 9/10/1999
- Member of scientific committees in national and international conferences regarding forest, environment and Free and Open Source Software for Geospatial.

1.9 Invited presentation, keynote speaker at international events

- 2019** GIS ecosystem mapping and modelling. *International Conference on Biodiversity 2019: IBD2019 - Biodiversity for Sustainable Bioeconomy*. National Science and Technology Development Agency Ministry of Higher Education, Science, Research and Innovation, Ministry of Natural Resources and Environment, 23 May 2019, Bangkok, Thailand.
- 2016** Landscape modelling, energy production, biodiversity and Ecosystem Services: study cases in mountain environment. *Biodiversity and Ecosystem Services: the role of endangered species and invasives*. First International Workshop 17 October 2016, Innsbruck, Austria
- 2015** Ecosystems services, decision support systems and participative approach in planning: experiences and lessons learned in the Alpine Region. *European Forestry Commission - 30th session of the EFC WP MMW - Working Party on the Management of Mountain Watersheds - Mountain Watersheds and Ecosystem Services: Balancing multiple demands of forest management in head-watersheds and Stakeholder Training Dialogue with Experts from the Alpine Convention*. 23 September 2015, Pieve Tesino, Trento, Italy.
- 2015** Application of r.green DSS in pilot areas with focus on conflicts. *Engagement and conflict prevention in Nature Conservation*. International Seminar on the creation of reliable acceptance for conservation measures. Baltic Environmental Forum Germany e.V. (BEF) in cooperation with Lower Saxony Water Management, Coastal Defense and Nature Conservation Agency (NLWKN) in the framework of the Lower Saxony EU LIFE+ project “Meadow Birds” 9 June 2015 Hamburg, Germany

1.10 Making Science accessible to general public & Science communication

- 2020** Interview for the Project Saturn. Framework: Saturn EIT Climate KIC project.

<https://www.youtube.com/watch?v=Y8k3ujc7coA>

2016 Newspaper Repubblica, cited in the article: L'orso bruno sulle Alpi del Trentino: per sopravvivere occorre migrare: http://www.repubblica.it/ambiente/2016/03/03/news/orso_alpi-134690160/

2014 Participation in the Documentary: All'ombra degli Udzungwa, di Massimo Gabbani Italia 33' presented at Trento Film Festival. Framework: Unesco Chair

2014, February 18 at 15.00 RAI 2 (Radio 2) Thematic Invited Interview: Le foreste in Trentino.

2013 November 12-13 Radio Svizzera Italiana, two invited Radio interviews by Marco Ciolli at the International conference on balancing renewable energy and nature in the Alps Brig, Switzerland, Briga, CH. Framework: recharge.green project.

2011 May 19-20 Bioweb 2011, Trento, with Muse Trento, he organized and presented the Workshop "Laboratorio Formativo: Biodiversità per lo sviluppo e la lotta alla povertà".

2 Research projects

Date	Funding Body	Role	Project Title
1993-1995	CFS State Forestry Corps and MRAAF Italian Ministry for Agricultural, Alimentary and Forest Resources	Participant	La foresta e I suoi valori, studio interdisciplinare in pianificazione forestale" (The forest and forest values, Interdisciplinary studies in forest planning)
1995	DICA Department of Civil and Environmental Engineering	Participant	Forest types productivity and forest silviculture management in spruce forests of Fiemme valley" (Tipologia, produttività e trattamento selvicolturale delle peccete della val di Fiemme
1995	DICA Department of Civil and Environmental Engineering	Participant	"Regional forest planning" (Pianificazione forestale regionale)
1996-1997	DICA Department of Civil and Environmental Engineering	Participant	"Forest Trees growth rhythm"(Ritmi di accrescimento degli alberi forestali)
1998	DICA Department of Civil and Environmental Engineering	Participant	"Forest types, ecological approach to forest management" (Tipologie forestali, approccio ecologico alla gestione forestale)
1998	DICA Department of Civil and Environmental Engineering	Participant	"Restoration of Brenta River" (Riqualificazione dell'asta fluviale del Brenta). Study of DICA for Comprensorio della Bassa Valsugana e del Tesino)
1998	Comunità Montana della Valle Cannobina	Participant	Landscape and Ecological plan Valle Cannobina (Piedmont)" Realizzazione del Piano ecologico territoriale della Valle Cannobina. Study of DICA for Comunità Montana della Valle Cannobina (VCO)

1998	DICA Department of Civil and Environmental Engineering	Participant	“Ecological approach to sustainable management and forest planning” (Approccio ecologico alla gestione sostenibile ed alla pianificazione forestale)
1999	DICA Department of Civil and Environmental Engineering,	Participant	“Ecological approach to sustainable management and forest planning integrating GIS and field techniques” (Approccio ecologico alla gestione sostenibile ed alla pianificazione forestale mediante l'integrazione di tecniche GIS e di campo)
2000	APPA Agenzia Provinciale per la Protezione dell'Ambiente - PAT Provincia Autonoma di Trento	Scientific responsible for Forest Management Sustainability	Progetto per lo sviluppo sostenibile del Trentino, Sostenibilità negli ambienti forestali, WP Indicatori per la gestione sostenibile delle foreste "Project for sustainable development of Trentino, Forest sustainability, Indicators of Sustainable Forest Management"
2001	PAT (Provincia Autonoma di Trento)	Participant	PAT-UNITN New methods to study avalanches risks: integrating dendrochronological, GIS, GPS techniques and mathematical modeling in Val dei Spini (Pejo, TN)
2003-2004	PAT Provincia Autonoma di Trento	Participant	PAT-UNITN “Integrated evaluation of hydrogeological risks in alpine conoids”
2001-2007	MiPAAF Italian Ministry of agricultural food and forestry policies	Coordinator of Subproject 4.2	RISSELVITALIA, Ri.Selv.Italia (Common research Program about Sylviculture in ITALY), Subproject 4.2 - Information Systems to support forest management (Sistemi informativi di supporto per la gestione forestale)
2005-2006	MIUR Italian Ministry for Education University and Research	Participant	MIUR-Cofin 2004 “Advanced structures of numerical cartography for GIS and WEB environment” "Strutture evolute della cartografia numerica per i GIS e l'ambiente WEB"
2004-2005	European Union	Participant	ENSPADS : Expertise Network for Spatial Planning and Decision Support (ENSPADS)", ASEAN-EU University Network Programme (AUNP)"
2005	PAT Provincia Autonoma di Trento	Participant (Cooperation Project)	“Acqua sicura (Safe Water)” Fondazione de Carneri, ISF (Engineering Without Borders), PAT (Provincia Autonoma di Trento), Pemba Island, Tanzania 2005
2005	European Union	Sub-contractor	UTN Urban Technology Network II Pilot Cooperation UGN (Urban GIS Network) INTERREG IIIIB CADSES
2008-2009	MIUR Italian Ministry for Education, University and Research	Participant	MIUR-COFIN 2007 “Interoperability and cooperative management of geographic, dynamic, multidimensional and distributed data with Free and Open Source GIS”
2008-2010	European Commission 2,000,000 E	Coordinator of the GIS unit of the University of Trento. (Cooperation Project)	FACILITE ACP-UE POUR L'EAU–Actions dans les Pays ACP–Appel à proposition EuropeAid/122979/C/ACT/ACP–9° Fonds européen de développement intitulé: "Interventions pour le renforcement du réseau hydraulique, pour la protection de l'environnement et la sensibilisation à un usage responsable en collaboration avec le District de Gicumbi dans la Province du Nord" RWANDA, in the frame of ACP projects

2010-2013	CFS State Forestry Corps and CRA-MPF Council for Research in Agriculture - Unit for monitoring and forest planning	Coordinator and PI	Digital recovery of 1936 Italian kingdom forest map by Regio Corpo Forestale (Royal forest corps)
2010-2012	Caritro Foundation Fondazione Cassa di Risparmio di Trento e Rovereto Total 545,000 E [40101590]	WP Coordinator, PI Total 126,312 Finan. 58,472 Cofin. 67,850	BIOMASFOR, "Biomassfor project. Potentiality, energetic innovation, ecological and economic sustainability of Trentino forest biomasses"
2012	CAM Consorzio Associazioni con il Mozambico - Tavolo Trentino con il Mozambico	Scientific Responsible (Cooperation Project)	Study of the Biodiversity of Sofala, Caia and Marromeu districts (Mozambique); (Studio sulla biodiversità dell'area di Sofala, Caia e Marromeu) commissioned in the frame of the Revision of the Urban and environmental Plan of the area.
2011-2013	Caritro Foundation Fondazione Cassa di Risparmio di Trento e Rovereto 15,000 E [40102230]	Project Leader and Scientific Coordinator 15,000 E	FORCING "Recovery and valorization of Smidth forest Belt archive in the Provincia Autonoma di Trento (FORCING)" http://meteogis.fmach.it/forcing/mappa/index.php
2013-2015	European Union 2,100,000 [30103189]	Sub-contractor 39,400 E	Recharge.green project Alpine Space programme, subcontractor for the action Development of a Decision Support System in GIS environment for the analysis of renewable energy, http://www.recharge-green.eu/
2016-2017	Regione Veneto 50,000 E [40102740]	Project Leader and Scientific Coordinator 50,000 E	Standard methods to evaluate the effects of disturbance factors following 2011/484/UE for impact assessment through a QGIS plugin
2016-2017	Chiesa Valdese 38,000 E	Scientific Coordinator and responsible (Cooperation Project)	Efficient cooking technologies in Tanzania and Vietnam - Experiences aimed to improve the life of local communities that depend on forest resources through emission measurement (Tecnologie di combustione efficienti in Tanzania e Vietnam – Esperienze a confronto per migliorare la vita delle comunità locali dipendenti da risorse forestali, con l'ausilio di analisi delle emissioni ed efficienza delle tecnologie proposte)
2017-2020	European Union Horizon 2020	Participant	Innoforest – Innovation in forestry sector in Europe
2018-2020	National Research Council of Thailand	Project Advisor	Analysis, monitoring and prediction of water quality for sustainable land use of the river basin system in Eastern Economic Corridor (EEC), research program through National Research Council of Thailand, Burapha University
2018-2019	Regione Veneto 35,000 E [40103210]	Project Leader and Scientific Coordinator 35,000 E	Definition of standard methods to evaluate the effects of disturbance factors following 2011/484/UE, for impact assessment through a QGIS plugin for light, thermic pollution, water noise, soil dynamics, marine sediments - Definizione di metodi standard e di applicativi informatici per il calcolo degli effetti dei fattori di perturbazione ai sensi della decisione 2011/484/UE per la valutazione di incidenza - Inquinamento luminoso, termico, nel suolo, sedimenti marini, rumore in acqua

2019	European Union - EIT ClimateKIC Total 89,625 [40103496]	WP Scientific Coordinator and PI Total 32,500 Finan. 24,200 Cofin. 8,300	Deep Demonstrations in Forging resilience in Dolomites – Goethe. aims to support the communities of Dolomite territories in coping systemically the components of environmental instability connected to climate change and to face resiliently the economic, financial and social change uncertainties
2020	European Union - EIT ClimateKIC Total 115,875 [40103595]	Project Leader Coordinator and PI Total 115,875 Finan. 92,700 Cofin. 23,175	Deep Demonstrations in Forging resilience in Dolomites 2 - aims to support the communities of Dolomite territories in coping systemically the components of environmental instability connected to climate change and to face resiliently the economic, financial and social change uncertainties https://italy.climate-kic.org/projects/forging-resilience-in-dolomites-deep-demonstration/
2019-2021	SAR Scholars at Risk and C3A Center Agriculture Food Environment Total 30,968 [40202299]	Coordinator Total 60,968	Responsible for the Research in the frame of Project Scholars at Risk with C3A - Protecting scholars and the freedom to think, question, and share ideas
2020	European Union - EIT ClimateKIC Total 124,860 [40103262]	Project Leader Coordinator and PI Total 124,860 Finan. 89,888 Cofin. 25,973	HOLISTIC RESILIENCE - Aims to create insurance and de-risking schemes to increase the resilience of forests and mountain landscapes to extraordinary meteorology events. https://holisticresilience.dicam.unitn.it/index_eng.html
2018-2021	European Union - EIT ClimateKIC Total 1,492,303 [40103262]	WP Scientific Coordinator and PI Total 195,625 Finan. 134,625 Cofin. 61,000	SATURN - System and sustainable Approach to virtuous interaction of Urban and Rural Landscapes. Reconnect Urban and rural environment creating an ecosystems of actors from public, private and academia sectors to guide and nurture innovation in the sustainable use of peri-urban area with systemic approach. The framework includes tools, indicators and collection of best practices to support policy makers and integrated planning. https://eventi.fmach.it/saturn

Note: EIT CLIMATE KIC: The EIT is an integral part of Horizon 2020, the EU's Framework Programme for Research and Innovation. <https://eit.europa.eu/> and Climate KIC: <https://www.climate-kic.org/>. Where Marco Ciolli had the financial responsibility, in the field "Funding body" the Total budget of each project is reported with the UNITN SAP code when available, while in the field "Role" the budget managed by Marco Ciolli is reported. An incomplete list of Marco Ciolli projects since 2011 can be found here: <https://webapps.unitn.it/du/it/Persona/PER0003808/Progetti>

2.1 Language skills CEFR (C2 Mastery or proficiency - A1 Breakthrough or beginner)

Language	Reading	Speaking	Writing
English	C2	C2	C2
French	C2	C1	B1

3 Publications

3.1 Journals

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 15. CIOLLI M, SGUERSO D, ZATELLI P (2000) *GIS applications with GRASS*, Geomatics Workbooks, Geomatics Laboratory - Politechnic of Milan - Como Campus, n° 1, Autumn 2000, 12 pp.
 16. CIOLLI M, FERRETTI F, GHERARDI L (1999) *Iper testo di Assestamento*. Monti e Boschi n°5 1999 pp. 25-30.
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3.3 Didactic publications, slides, other resources on line

Didactic publications, Slides of the courses, other didactic material can be found in the esse3 system and moodle platform (this includes also video of the lessons) of the University of Trento and a complete list of all my research output including technical reports can be downloaded at <https://webapps.unitn.it/du/it/Persona/PER0003808/Pubblicazioni>

Marco Ciolli together with Francesco Geri, Fabio Zottele and Nicola La Porta released the WebGIS <http://meteogis.fmach.it/forcing/mappa/index.php>

Marco Ciolli was the coordinator of the project and released in Creative Commons 3.0 BY together with Fabrizio Ferretti, Chiara Sboarina, Clara Tattoni, Alfonso Vitti, Paolo Zatelli, Francesco Geri and Enrico Pompei the Italian Kingdom Forest Map of 1936 that represents 1936 Italian forest cover extension and features and can be downloaded at the address: <http://carta1936.dicam.unitn.it/>

3.4 Software and Technology transfer r.green.biomassfor

Biomassfor, A GIS GRASS extension to assess the exploitability of forest biomass residues taking into account different (ground and cable) harvesting techniques, can be found here: <http://sourceforge.net/projects/biomassfor/>

The software r.green.biomassfor, A GIS GRASS add-on to assess the exploitability of forest biomass residues taking into account different (ground and cable) harvesting techniques, including the evaluation of ecosystem services can be found at the add-on page of GRASS. <https://grass.osgeo.org/grass70/manuals/addons/r.green.biomassfor.html>

EnviFate QGIS plugin: Open source tool for environmental risk analysis, EnviFate software is currently under development by DICAM of the University of Trento, Italy, in the frame of the project "Definizione di metodi standard e di strumenti applicativi informatici per il calcolo degli effetti dei fattori di perturbazione ai sensi della decisione 2011/484/UE, da impiegarsi nell'ambito della valutazione di incidenza - Inquinamento luminoso, inquinamento termico, rumore in acqua, dinamica inquinanti nel suolo, dispersione sedimenti marini", funded by the Italian Veneto Region. The project aims to make available to non-specialist operators a set of tools able to perform screening analysis to assess the risks of different possible environmental pollution sources in protected areas. Authors: Marco Ciolli (supervisor and scientific responsible of the project), Francesco Geri (Software development), Paolo Zatelli and Oscar Cainelli (Technical and scientific consultants) and Gianluca Salogni (Technical and scientific referent for Regione Veneto). **In 2018 ENVIFATE was included in "Progetti Strategici" of Regione Veneto.** GPL license v3. <https://bitbucket.org/fragit/envifate/>

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 GDPR 679/16.



Trento, 3 November 2021

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