

Marco Giardino

Current position: Associate Professor (2010),
Physical Geography and Geomorphology, Abilit.
to Full Professor (2013) Sc.S. 04/A3 - GEO/04

University of Torino - Dept. of Earth Sciences



Secretary General

Italian Glaciological Comm.
www.glaciologia.it/en/il-comitato/

Dir. Comm. UNESCO Chair
in Sustainable Development
and Territory Management
www.unescochair.it/en/about-us.html

Science coordinator

Sesia Val Grande
UNESCO Global Geopark
www.sesiavalgrandegeopark.it

**Coordinator of the
Environmental Panel**
H2020 PhD T4C
<https://tech4culture.unito.it/>

Co-chair WG on Landform Geodiversity

IAG - International Association of
Geomorphologists
www.geomorph.org/geodiversity-working-group/

Elected member

Public Engagement Comm. Univ. of Torino
www.unito.it/ricerca/terza-missione/public-engagement/

Past Positions

- 2009-2010 Visiting scientist, Earth Sciences Department, Simon Fraser University, Burnaby, Canada.
- 1999-2010 Assistant professor, Department of Earth Sciences, University of Torino (UniTO).
- 1995-1997 Researcher, CNR National Research Council, Centre for the Study of Geodynamics, Italy.
- 1992-1995 PhD in Earth Sciences – University Consortium Torino-Genova-Cagliari, Italy
- 1992-1993 Visiting scientist, U.S.G.S., Earthquake and Landslide Hazard, Golden, Colorado, USA.

Research Interest and Results

His research activities covers most fields of scientific-disciplinary sector of Physical Geography and Geomorphology: morphodynamics of alpine relief; geomorphological hazards and risks (slope instability, glacial dynamics), but especially: the study of geomorphological and geological heritage, in order to preserve the Geodiversity and to develop effective strategies for geoconservation and enhancement of Cultural Geoheritage. He developed his own unique approach, by using innovative technologies for data collection and dissemination. He is/was PI on several research projects on Applied Geomorphology, Natural Hazards, Geodiversity and Cultural Geoheritage (see next paragraph). He is author of more than 200 papers of scientific interest (see complete list in the attached ROL extended CV). Scientific Index (Google Scholar, 06/2020) H-index 21; Citation count 1417; i-10 index 45. ORCID <https://orcid.org/0000-0002-0008-3251>

Research Programs and Activities (from 1999 – to date)

- 1999 - 2008 Ex60% UniTO funds, PI of research on Applied Geomorphology (Large slope instabilities; Georesources and geohazards in the Alps; Innovative tools for geomorphological heritage).
- 2001 - 2006 PI of studies on natural history and geoheritage of Alpine valleys (Arve, Sangone, Susa, Aosta). Winner of the 2004 FIST-Geoitalia contest for the best geosite publication.
- 2002 - 2004 MIUR PRIN-Cofin 2002, UniTO PI on "Landslide activity and climate changes",.
- Since 2002 IFFI Project (National Inventory of Landslides in Italy): PI on Aosta Valley studies.
- 2003 - 2005 EU INTERREG III A (Italy-France) "Geotourism in the Montgenevre area". Scientific coordinator and author of field trip books and videos (<http://www.imeridiani.net/monti.htm>).
- 2004 - 2006 MIUR PRIN-Cofin 2004 "The Geomorphological patrimony as a resource for a sustainable tourism", UniTO coordinator (National Coordinator: M. Panizza).
- 2006 - 2007 "Geosites of the Langhe-Monferrato" (Regione Piemonte and Ente Parch Astigiani) and "Geotouristic map of the Middle Tanaro Valley" (Museo Regionale di Scienze Naturali).
- 2008 - 2009 World Wide Style program on Natural Hazards and Geoheritage in Canada and Italy, at the Centre for Natural Hazard Research, Simon Fraser University, Burnaby, BC. Canada..

- 2009 - 2012 EU INTERREG IIIA (2009-2012, Alcotra): "RiskNat", B.1-C.1, UniTO coordinator on "Regional analysis of slope instabilities of high mountains".
- 2010 - 2011 Research Contract PROG100783 (UniTO), coordinator of "New techniques for cartography and remote sensing for multimedia in Earth Sciences communication and field museum".
- 2011 - 2015 JCAPC CSP-UniTO 2011 (ORTO11Y7HR), PI of the "ProGEO-Piemonte project" PROactive management of GEOlogical heritage in the PIEMONTE region www.progeopiemonte.it.
- 2011 - 2015 Research Contract "Progetto Giovani" UniTO-CRT Bank Foundation on "Collaborative management of data for geological monitoring and civil protection"
- 2013 - 2016 ACPR12_00248 "LEGGE 6/2000", PI of "GeoMedia-web" project (multimedia and network for spreading awareness on geoheritage and geological risks)
- 2015 - 2018 EU ERASMUS+ KA201, Sc. Coord. "GEOclimHOME" (Geoheritage and Climate Change Opening the Secrets of Home), VAALA, Sesia Val Grande and Rokua Geoparks, UniTO
- 2017 - 2020 JCAPC CSP-UniTO 2016 (CSTO169034) PI of "geoDIVE" Project on Piemonte Geodiversity "From rocks to stones, from landforms to landscapes".
- 2019 - 2021 EU ERASMUS+ KA201, Sc. Coord. "GEOclimHOME-PRO" (Geoheritage and Climate Change for Highlighting the Professional Perspective), Finland-Italy- France
- 2020 - 2023 H2020 RIA LC-CLA-07-2019, UniTO Coord. "ARCTIC HUBS" (Tools for climate change adaptation and sustainable development for Arctic Hubs), Arctic and Alpine countries.

Teaching Appointments, Activities and Results

- Since 1999 Teaching courses at UniTO Faculty of Science (Undergraduate Courses: Physical Geography and Geomorphology, Geodynamics and Morphogenesis, Environmental Dynamics and Risks, in Italian) (Graduate Courses: Applied Geomorphology in Italian; Geoheritage and Geodiversity, in English). Tutorship of a total of 112 thesis (BSc, MSc).
- 2009 - 2020 Coordinator of the EU-Canada Transatlantic Exchange Partnership "geoNatHaz", University exchanges and high-level training in the field of Earth Sciences (www.geonatnaz.unito.it)
- 2019 - 2020 Member of the Teaching staff of the MASRA Master by Unesco Chair University Of Turin (Master in Social Environmental Sustainability of Agricultural Networks (www.mastersostenibilita.it/?jij=1585481438635)).
- Since 2000 Member of PhD Committees. In Italy he presented 16 candidates for the UniTO PhD on Earth Sciences, 1 to the UniTO PhD on "Defense of the Environment and Territory Organization", 1 to the UniMORE PhD "Earth System Science: Environmental, Resources and Cultural Heritage". PhD cotutorship with Prof. S.Gruber at Carleton University, Canada. Since 2018 coordinator of the Environmental Panel of the H2020 Marie Curie Tech4Culture PhD School on Science and Technology for Cultural Heritage of the University of Torino. <https://tech4culture.unito.it/>.

Academic Appointments and Services to the Scientific Community

- 2001 Founder of UniTO-GeoSitLab (Geothematic mapping GIS and Geomatics)
- 2007 Founder of IMAGEOsrI, uniTO Spin-off Company on innovative methods for Earth Sciences
- Since 2003 Co-opted member (now Secretary General) of the Italian Glaciological Committee, and member of scientific societies (AIGEO, EGU, G&T, IAEG, SGI. GeoProgress). 2008-2013 secretary of the Association of European Geological Society (AEGS).
- Since 2005 Within the Erasmus Project, coordinator of exchanges with EU Universities (Reims-Champagne-Ardenne, Savoie (Chambery), Antilles and Guyane (Guadalupe); Valladolid (Spain) Poznan (Poland) and Athens (Greece). Member of the UniTO International Commission, since 2016 President of the Int. Comm. of UniTO Natural Sciences Faculty. President of the UniTO Erasmus "Studio" and "Traineeship" Call for Proposals of the last 3 years at the School of Nature Sciences, member (2017) and then President (2018) of the UniTO "Serena Saracino" Erasmus Study Award Commission.
- Since 2007 UniTO "NatRisk" Interdepartmental Research Centre, member of the Management Board Committee, then (2019) Director of the Research Centre
- Since 2011 Sesia Val Grande Geopark, member of scientific team for the preparation application to the UNESCO Global Network (approved, 2013 confirmed 2018), then scientific coordinator.
- Since 2018 Member of the UNESCO District Committee of the Piemonte Region.
See other current highlights at the top of CV, this document.