

# Curriculum Vitae - Sandro Rossato

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## Profile

I am a geomorphologist working on the reconstruction of landscape evolution across both terrestrial and planetary environments, with a primary background in Quaternary geomorphology. My research is driven by an integrated methodological framework that combines remote sensing, geomorphological mapping, stratigraphic data, and geochronological constraints to build coherent and physically plausible reconstructions of past environmental dynamics.

On Earth, my work focuses on Quaternary landscape evolution in alpine and foreland settings, with particular attention to glacial and periglacial systems, landslides, and the interactions between fluvial, glacial, and tectonic processes. This research is grounded in extensive experience in geological and geomorphological mapping, geodatabase development, field surveys and coring activities, and the application of chronological techniques, including cosmogenic nuclide dating. Within national geological mapping programmes (CARG), I hold leading responsibilities in Quaternary stratigraphy, GIS, and survey coordination.

In parallel, I investigate geomorphic processes on planetary surfaces, applying Earth-based methods to the analysis of landforms and surface dynamics on the Moon and Mars. My work includes the study of boulder distributions, landing site characterisation, and geomorphological analysis of planetary landscapes, demonstrating how rigorous and transferable methodological approaches can be applied across different environmental contexts. I am Principal Investigator of the project CARE-ON – *Can we Rely on Our Network*, which addresses methodological robustness in geomorphological analysis.

Across both domains, my research is unified by the integration of heterogeneous datasets aimed at reducing uncertainty and improving the reliability of geomorphological interpretations. Within this framework, I am also interested in the role of citizen science as a tool to expand data collection and to explicitly address inter-operator variability in geomorphological mapping, particularly in the context of planetary surface analysis. My publication activity reflects this dual perspective, with contributions spanning Quaternary science, natural hazards, and planetary geology in international peer-reviewed journals.

Alongside research, I contribute to higher education through teaching in applied geomorphology and supervision activities at the University of Padova. I am actively involved in scientific community service, including editorial roles and conference organisation, and I engage in outreach initiatives aimed at communicating geomorphology and planetary science to a broad audience.

## Education

- PhD in Human and Physical Geography, University of Padova, awarded on 13 April 2012. Dissertation: “Evoluzione geomorfologica e paleoidrografica dell’alta pianura vicentina”. Supervisor: Dr Paolo Mozzi.
- MSc in Geology and Engineering Geology, University of Padova, awarded on 21 July 2008, 110/110 cum laude. Thesis: “Indagini geomorfologiche e paleoidrografiche della pianura ad Ovest di Padova”. Supervisor: Dr Paolo Mozzi.
- BSc in Geological Sciences, University of Padova, awarded on 28 September 2006, 110/110 cum laude. Thesis: “Utilizzo di tecniche laser-scanner in stratigrafia”. Supervisor: Prof. Paolo Mietto.

## Academic and Research Appointments

- 2 November 2022 – present. Researcher (Level III, fascia 1), Institute of Geosciences and Earth Resources (IGG), National Research Council (CNR), Padova branch.
- 8 November 2021 – 1 November 2022. Full-time fixed-term Researcher under Law 240/2010, art. 24, paragraph 3(a), disciplinary area GEO/04 (Applied Geology, Physical Geography and Geomorphology), Department of Geosciences, University of Padova.
- 14 April 2020 – 13 April 2021. Postdoctoral Research Fellow, CNR-IGG, Padova branch. Project: “Modellizzazione del sistema acquifero dell’Alta pianura del F. Brenta per verificare la sostenibilità degli emungimenti nella zona del campo pozzi idropotabile ‘Camazzole’ (Comune di Carmignano-PD)”. Supervisor: Dr Giovanni Monegato. Funded by Consiglio di Bacino Brenta. Role: population of the stratigraphic database; development of the 3D geological model of the study area; sampling and monitoring of control points defined by the working group.
- 10 November 2019 – 10 December 2019. Research Collaborator, Fondazione Università Ca’ Foscari di Venezia. Project: “GeoArte Geoarcheologia a Pieve Vergonte, verifica del potenziale archeologico nel sito di Pieve Vergonte (VB)”. Supervisor: Prof. Sauro Gelichi. Funded by Eni Rewind (formerly Syndial). Role: geomorphological and geological analysis of the study area; supervision and description of manual and mechanical corings.
- 1 March 2019 – 31 October 2019. Research scholarship holder, Department of Geosciences, University of Padova. Project: “Rilevamento ed elaborazione dati per la cartografia geotematica di aree di pianura alluvionali nell’Italia nord-orientale”. Supervisor: Prof. Cristina Stefani. Funded by Geo-CGT 2016. Role: geodatabase management, geological survey of the study area, cartographic preparation.
- 1 February 2017 – 31 January 2019. Postdoctoral Research Fellow, Department of Geosciences, University of Padova. Project: “Applicazione di metodologie geomorfologiche e geologiche per la cartografia geotematica delle pianure alluvionali”. Supervisor: Prof. Alessandro Fontana. Funded by Geo-CGT 2016. Role: geodatabase management, geological survey of lowland areas, digitisation and cartographic production.
- 6 June 2016 – 5 August 2016. Independent consultancy, Department of Geosciences, University of Padova. Project: “Elaborazioni dati relativi a datazioni con isotopi cosmogenici delle frane del Monte Peron, Fadalto e dell’area del Passo Valles”. Supervisor: Prof. Silvana Martin. Funded by PRAT 2014. Role: synthesis and analysis of geological, geomorphological and chronological datasets.
- 1 March 2015 – 29 February 2016. Postdoctoral Research Fellow, Department of Geosciences, University of Padova. Project: “Geomorphic response of alluvial and coastal systems to late Quaternary environmental change and extreme hydrologic events”. Supervisor: Dr Paolo Mozzi. Funded by departmental funds. Role: collection and analysis of geomorphological, geological and chronological data; survey and coring.
- 1 July 2012 – 30 June 2014. Postdoctoral Research Fellow, Department of Geosciences, University of Padova. Project: “Geomorphology and archaeological GIS of Italian cities and their surroundings”. Supervisor: Dr Paolo Mozzi. Funded by Arcus S.p.A. within the national NADIR project (Network Archeologico di Ricerca). Role: digitisation of geological and chronological data, database structuring and population, preliminary analyses and database potential assessment.
- February – March 2008. Research scholarship, Department of Geosciences, University of Padova. Project: “Rilevamento geologico alla scala 1:10.000 in contesti di pianura alluvionale”. Supervisor: Dr Paolo Mozzi. Role: surveyor of the study area.

## Competitive Projects, Leadership Roles and Funding

- Principal Investigator, CARE-ON – Can we Rely on Our Network. Funding acquired: EUR 35,000. Funder: CNR – Institute of Geosciences and Earth Resources. Period: 11/2024 – 04/2026.
- Quaternary Lead, CARG Sheet 125 – Vicenza. Funders: ISPRA, Regione Veneto. Period: 2026 – 2029.
- GIS Lead, CARG Sheet 084 – Vittorio Veneto. Funders: ISPRA, Regione Veneto. Period: 2024 – 2027.
- Survey and GIS Lead, CARG Sheet 127 – Mestre. Funders: ISPRA, Regione Veneto. Period: 2023 – 2026.

- GIS Lead, CARG Sheet 087 – Palmanova. Funders: ISPRA, Regione Friuli Venezia-Giulia. Period: 2021 – 2024.

## Research Training and International Courses

### Specialised Training Periods

- 16–28 May 2022. Training period on cosmogenic nuclide dating methods (sampling and sample preparation), Department of Earth Sciences, ETH Zurich, under the supervision of Prof. Susan Ivy-Ochs.
- 6–24 January 2014. Training period on fossil diatom analysis and interpretation (sampling, slide preparation, identification and data interpretation), Paleoenvironmental Laboratories (PLUS), University of Southampton, under the supervision of Prof. Antony Brown.
- 26 May – 8 June 2013. Training period on OSL (Optically Stimulated Luminescence) dating methods (sampling and sample preparation), Department of Nature and Land, University of Sassari, under the supervision of Prof. Vincenzo Pascucci.
- 17–23 January 2010. Training period on Loss On Ignition (LOI) analysis (sampling, sample preparation, analysis and interpretation), Institute of Plant Sciences, Bern, under the supervision of Dr Elisa Vescovi.

### Intensive Courses and International Summer Schools

- 20–21 September 2021. Short course: “The making of a geological sheet: guidelines and best practices”, held within the conference Geology without Borders, organised by the Italian Geological Society, Trieste, Italy.
- 2–6 November 2011. Short course: “Alluvial Plain Geology”, organised by the Italian Association of Quaternary Geology (AIQUA), Monselice (PD), Italy.
- 13–15 April 2011. Short course: “Facies analysis of fluvial deposits”, organised by the Italian Association for Sedimentary Geology (GeoSed), Alghero (SS), Italy.
- 1–3 March 2010. Short course on Photogrammetry, University of Pavia, Italy.
- 30 August – 4 September 2009. “Geochronology Summer School: Dating anthropogenic and natural changes in a fragile Alpine environment”, Anzonico, Switzerland, organised by the University of Zurich, Swiss Federal Institute of Technology Zurich and Swiss Federal Institute for Forest, Snow and Landscape Research.
- 28 June – 8 July 2009. International intensive programme: “Water Resources, Management and Security in Southern Europe”, Udine, Italy, organised by the University of Udine.
- 15–18 December 2008. Short course: “Research Design for postgraduate students”, Windsor (London, UK), organised by the British Society for Geomorphology.

## Oceanographic Survey Campaigns

Core activities included gravity coring, vibro- and box-corer operations, water sampling for chemical analyses, sediment sampling for XRF analyses, acquisition and interpretation of multibeam and CHIRP profiles, and navigation support. These campaigns were organised by CNR–ISMAR Bologna in collaboration with the Department of Geosciences, University of Padova, and the Department of Biological, Geological and Environmental Sciences, University of Bologna.

- 30 September – 13 October 2014. Adriatic Sea survey campaign ASCI14; chief scientist: Dr Annamaria Correggiari.
- 18–28 May 2012. Adriatic Sea survey campaign NAD12; chief scientist: Dr Annamaria Correggiari.
- 28 April – 7 June 2009. Adriatic Sea survey campaign SOMRisa09; chief scientists: Dr Stefano Langone and Dr Annamaria Correggiari.

## Teaching, Supervision and Academic Training

### Teaching Qualification

- May 2019. Awarded 24 university credits qualifying for teaching in secondary schools in Italy.

### Course Lecturer

- February – June 2024. “Applied Geomorphology”, MSc in Environmental Geology and Earth Dynamics, University of Padova (6 ECTS, GEO/04).
- February – June 2023. “Applied Geomorphology”, MSc in Environmental Geology and Earth Dynamics, University of Padova (6 ECTS, GEO/04).
- February – June 2022. “Applied Geomorphology”, MSc in Environmental Geology and Earth Dynamics, University of Padova (6 ECTS, GEO/04).
- October 2021 – January 2022. “Remote Sensing for Geomorphology and Archaeology”, international MSc in Archaeological Sciences, University of Padova (4 ECTS, GEO/04).
- February – June 2012. “Analisi geomorfologiche e Telerilevamento”, MSc in Natural Sciences, University of Padova (5 ECTS, GEO/04).

### Teaching Assistant

- September 2021 – January 2022. Support teaching for “Physical Geography”, BSc in Geological Sciences, University of Padova.
- March 2021 – June 2021. Support teaching for “Geomorphology”, BSc in Geological Sciences, University of Padova.
- September 2020 – January 2021. Support teaching for “Physical Geography”, BSc in Geological Sciences, University of Padova.
- March 2020 – June 2020. Support teaching for “Geomorphology”, BSc in Geological Sciences, University of Padova.
- September 2018 – January 2019. Support teaching for “Rilevamento geologico tecnico e fondamenti di V.I.A.”, MSc in Geology and Engineering Geology, University of Padova.
- September 2017 – January 2018. Support teaching for “Rilevamento geologico tecnico e fondamenti di V.I.A.”, MSc in Geology and Engineering Geology, University of Padova.
- September 2016 – January 2017. Support teaching for “Rilevamento geologico tecnico e fondamenti di V.I.A.”, MSc in Geology and Engineering Geology, University of Padova.
- September 2015 – January 2016. Support teaching for “Geografia Fisica con Elementi di Astronomia”, BSc in Geological Sciences, University of Padova.
- September 2014 – January 2015. Support teaching for “Geografia Fisica con Elementi di Astronomia”, BSc in Geological Sciences, University of Padova.
- October – December 2013. Support teaching for “Geografia Fisica con Elementi di Astronomia”, BSc in Geological Sciences, University of Padova.
- February – June 2013. Support teaching for “Geografia fisica e Geomorfologia”, BSc in Natural Sciences, University of Padova.
- February – June 2011. Support teaching for “Analisi geomorfologiche e Telerilevamento”, MSc in Natural Sciences, University of Padova.
- February – June 2010. Support teaching for “Analisi geomorfologiche e Telerilevamento”, MSc in Natural Sciences, University of Padova.

### Short Courses and Seminars

- 30 November 2018. Specialist contribution entitled “Cronologia ed evoluzione dei fenomeni di frana della Val di Tovel” within the workshop “Geomorfologia dinamica: cronologia ed evoluzione dei fenomeni di frana di Tovel e Molveno”, organised by MUSE – Museo delle Scienze di Trento.

- Academic year 2016–2017. Four-hour seminar within the second-level Master “GIS science e Sistemi a Pilotaggio Remoto per la gestione integrata del territorio e delle risorse naturali - a indirizzi”. The seminar formed part of a field excursion devoted to UAV survey of abandoned terraces and focused on the use of differential GPS for defining GCPs required for UAV survey.
- Academic year 2015–2016. Four-hour seminar within the second-level Master “GIS science e Sistemi a Pilotaggio Remoto per la gestione integrata del territorio e delle risorse naturali - a indirizzi”. The seminar formed part of a field excursion devoted to UAV survey of abandoned terraces and focused on the use of differential GPS for defining GCPs required for UAV survey.
- 10 May 2014. Specialist seminar entitled “Il fiume: caratteristiche e relazioni con le attività umane” within the III national AIIG workshop.

### Collaboration in Courses Run by Foreign Universities

Tasks included preliminary site inspections, interaction with local residents, local administrations, students and lecturers, scheduling and organising areas for manual coring activities performed by students.

- May – June 2018. Field assistant for “Lowland Genesis”, BSc in Earth Sciences, Utrecht University, held in the lower Venetian Plain (municipalities of Eraclea, Caorle, San Stino di Livenza, Torre di Mosto, Ceggia, San Donà di Piave and Noventa di Piave).
- May – June 2017. Field assistant for “Lowland Genesis”, BSc in Earth Sciences, Utrecht University, held in the lower Venetian Plain (municipalities of Eraclea, Caorle, San Stino di Livenza, Torre di Mosto, Ceggia, San Donà di Piave and Noventa di Piave).
- May – June 2016. Field assistant for “Lowland Genesis”, BSc in Earth Sciences, Utrecht University, held in the lower Venetian Plain (municipalities of Eraclea, Caorle, San Stino di Livenza, Torre di Mosto, Ceggia, San Donà di Piave and Noventa di Piave).
- May – June 2015. Field assistant for “Lowland Genesis”, BSc in Earth Sciences, Utrecht University, held in the lower Venetian Plain (municipalities of Eraclea, Caorle, San Stino di Livenza, Torre di Mosto, Ceggia and San Donà di Piave).
- May – June 2014. Field assistant for “Lowland Genesis”, BSc in Earth Sciences, Utrecht University, held in the lower Venetian Plain (municipalities of Caorle, Eraclea, Concordia Sagittaria, San Stino di Livenza and Torre di Mosto).
- May – June 2012. Field assistant for “Lowland Genesis”, BSc in Earth Sciences, Utrecht University, held in the lower Venetian Plain (municipalities of Caorle, Eraclea, Concordia Sagittaria and San Stino di Livenza).

### PhD Co-supervision

- Camilla Vidi – PhD in Geosciences, University of Padova, XL cycle (2024–2027). Dissertation title: “Sedimentary connectivity in the valleys of the Southern Alps along the postLGM”. Supervisor: Prof. Alessandro Fontana; co-supervisors: Dr Giovanni Monegato and Dr Sandro Rossato (CNR-IGG, Padova).

## Scientific Service, Editorial Activity and Conference Organisation

### International Conferences and Summer Schools

- Chair of the Scientific Committee, INQUA Congress (XXI INQUA Congress – Roma 2023: Time for Change), Rome, July 2023.
- Member of the Organising Committee, international Summer School “Historic and prehistoric landslides in the northern Italian Alps: Implications for new hazard maps in mountainous areas”, Veneto and Trentino, July 2019.
- Member of the Organising Committee, international conference “EX-AQUA”, Padova, September 2016; co-editor of the abstract volume.

- Member of the Organising Committee, international conference “GIGS 2017”, Padova, July 2017; editor of the conference proceedings.

### Editorial Roles

- Guest Editor, *Alpine and Mediterranean Quaternary*, vol. 33(2), 2020: “Historic and Prehistoric landslides in the Northern Italian Alps: implications for new hazard maps in mountainous areas”.

### Outreach and Public Engagement

- 26–27 September 2025. “Alla scoperta della Luna”. Hands-on activity designed to introduce basic lunar characteristics to children and teenagers aged 3–14 using everyday materials (toothpaste, cardboard, pebbles, flour, cocoa). Held as part of the Science4All outreach event in Padova.
- 14 June 2025. “Esplorando superfici planetarie e siti di atterraggio”. Outreach talk for amateur and professional astronomers held within the festival “Il Solstizio d’Estate” in Stazzema (LU), at the Osservatorio Astronomico delle Alpi Apuane.
- 5 April 2019. “Inquadramento geomorfologico del territorio vicentino”. Outreach presentation within the launch of the Soil Map of the Province of Vicenza, Montecchio Maggiore (VI), recognised for continuing professional development by the Order of Geologists of Veneto.
- 30 November 2018. “Geomorfologia dei depositi di frana di Tovel”. Public lecture within the conference “Geomorfologia dinamica: cronologia ed evoluzione dei fenomeni di frana di Tovel e Molveno”, part of the series “Le grandi frane del Trentino tra storia e scienza”, Trento, MUSE. Recognised for continuing professional development by the Orders of Geologists and Agronomists/Foresters of Trentino-Alto Adige.
- 27 September 2018. “Sand Box”. Educational lab using augmented-reality sand to illustrate geological processes, natural hazards and landform morphology, within NEMES 2018 (Non è magia, è Scienza), organised by the University of Padova.
- 28 August 2015. “Storie di uomini e filo spinato”. Social game designed to engage the public with Geography (orienteering, spatial coordinates, map reading, basic GPS use) and World War I landscapes, within Dolomites UNESCO LabFest #SCONFINI, Auronzo, Italy. Funded by Fondazione Dolomiti UNESCO.
- 27 September 2013. “Mission Geocaching: sulle tracce dei ricercatori”. Social game designed to engage the public with Geography (orienteering, spatial coordinates, map reading, basic GPS use) and research sites, within the European Researchers’ Night in Padova. Funded by the Veneto section of Enterprise Europe Network.
- 28 September 2012. “Alla ricerca della ricerca”. Social game designed to engage the public with Geography (orienteering, spatial coordinates, map reading, basic GPS use) within the European Researchers’ Night in Venice and Padova. Funded by the Veneto section of Enterprise Europe Network and Unioncamere Veneto.

### Professional Affiliations, Reviewing Activity and Technical Skills

#### Affiliations

- EGU – European Geosciences Union.
- INQUA-SACCOM – Stratigraphy and Geochronology Commission of the International Union for Quaternary Research.
- INQUA-TERPRO – Commission on Terrestrial Processes, Deposits, and History of the International Union for Quaternary Research.
- AIQUA – Associazione Italiana per lo studio del Quaternario. Member of the Executive Board, elected in 2024 for a three-year term.
- SGI – Società Geologica Italiana.

## Academic Service and Reviewing

- GIS Manager, Catasto Grotte della Regione Veneto.
- Reviewer for scientific journals: Minerals; Eurac Research; AMQ – Alpine and Mediterranean Quaternary; Quaternary International; Earth Surface Processes and Landforms; Marine Geology; PLOS-ONE; Italian Journal of Geosciences; Catena; Land; Geosciences; The Holocene.
- Reviewer of research proposals for COST (2022), NASA (2019) , and ANR (2016).

## Software, Technical Skills and Languages

- Technical Software: Esri ArcInfo suite /ArcGIS Pro, Adobe Photoshop, Adobe Illustrator, Corel Draw, Sigma, OxCal, Calib, ConVe, IPM-MOVE.
- Scientific instrumentation: extensive experience with standard and differential GPS; autonomous use of navigation systems on research vessels; long-term practice with manual coring equipment (Edelman auger, Munsell colour charts, grain-size comparators, etc.).
- Languages: Italian (native), English (fluent), French (school level), Spanish (basic reading and conversation).

## Publications

### Peer-reviewed Journal Articles

1. Rettig L., Rossato S., Kamleitner S., Mozzi P., Ivy-Ochs S., Marcato E., Christl M., Martin S., Monegato G. (2025) – The Last Glacial Maximum (LGM) glacier network of the Valsugana area (south-eastern European Alps and Prealps, NE Italy). *E&G Quaternary Sci. J.*, 74, 151–168. doi: 10.5194/egqsj-74-151-2025
2. Monegato G., Fontana A., Mozzi P., Poli M.E., Patricelli G., Rettig L., Rossato S. (2023) – LGM glacial and glaciofluvial environments in a tectonically active area (southeastern Alps). *Geological Field Trips and Maps*, 15 (2.2). doi: 10.3301/GFT.2023.07
3. Livio F.A., Bovo F., Gabrieli F., Gambillara R., Rossato S., Martin S., Michetti A.M. (2022) – Stability Analysis of a Landslide Scarp by Means of Virtual Outcrops: The Mt. Peron Niche Area (Masiere di Vedana Rock Avalanche, Eastern Southern Alps). *Frontiers in Earth Science*, 10. doi: 10.3389/feart.2022.863880
4. Pajola M., Pozzobon R., Silvestro S., Salese F., Rossato S., Pompilio L., Munaretto G., Teodoro L., Kling A., Simioni E., Lucchetti A., Tornabene L.L., Marinangeli L., Tangari A.C., Wilson J., Cremonese G., Massironi M., Thomas N. (2022) – Geology, in-situ resource-identification and engineering analysis of the Vernal crater area (Arabia Terra): A suitable Mars human landing site candidate. *Planetary and Space Science*, 213, art. no. 105444. doi: 10.1016/j.pss.2022.105444
5. Ruggia G., Ivy-Ochs S., Aaron J., Steinemann O., Martin S., Rigo M., Rossato S., Vockenhuber C., Monegato G., Viganò A. (2021) – Reconstructing the Gorte and Spiaz de Navesele landslides, NE of Lake Garda, Trentino dolomites (Italy). *Geosciences (Switzerland)*, 11(10), art. no. 404. doi: 10.3390/geosciences11100404
6. Poli M.E., Monegato G., Fontana A., Mozzi P., Rossato S., Zampieri D., Falcucci E., Gori S., Caputo R., Zanferrari A. (2021) – Comment on “Fragmentation of the Adriatic promontory: new chronological constraints from Neogene shortening rates across the Southern Alps (NE Italy)” by Moulin and Benedetti, 2018. *Tectonics*. doi: 10.1029/2019TC005696
7. Peresani M., Monegato G., Ravazzi C., Bertola S., Margaritora D., Breda M., Fontana A., Fontana F., Janković I., Karavanić I., Komšo D., Mozzi P., Pini R., Furlanetto G., Maria De Amicis M.G., Perhoč Z., Posth C., Ronchi L., Rossato S., Vukosavljević N., Zerboni A. (2021) – Hunter-gatherers across the great Adriatic-Po region during the Last Glacial Maximum: Environmental and cultural dynamics. *Quaternary International*, 581–582, 128–163. doi: 10.1016/j.quaint.2020.10.007
8. Viganò A., Rossato S., Martin S., Ivy-Ochs S., Zampiedi D., Rigo M., Monegato G. (2021) – Large landslides in the Alpine valleys of the Giudicarie and Schio-Vicenza tectonic domains (NE Italy). *Journal of Maps*, 17(3), 197–208. doi: 10.1080/17445647.2021.1880979

9. Rossato S., Martin S., Ivy-Ochs S., Gabrieli F. (2020) – Introduction to the Special Issue “Historic and Prehistoric landslides in the Northern Italian Alps: implications for new hazard maps in mountainous areas”. *Alpine and Mediterranean Quaternary*, 33(2), 1–2.
10. Rossato S., Ghirotti M., Gabrieli F., Livio F., Bovo F., Brezzi L., Campedel P., Cola S., Ivy-Ochs S., Martin S., Mozzi P., Pasuto A., Rigo M., Simonini P., Surian N., Viganò A., Vockenhuber C., Wolter A. (2020) – Learning from the past to face the future: landslides in the Piave Valley (Eastern Alps, Italy). *Alpine and Mediterranean Quaternary*, 33(2), 209–228. doi: 10.26382/AMQ.2020.14
11. Rossato S., Ivy-Ochs S., Martin S., Viganò A., Vockenhuber C., Rigo M., Monegato G., De Zorzi M., Surian N., Campedel P., Mozzi P. (2020) – Timing, drivers and impacts of the historic Masiere di Vedana rock avalanche (Belluno Dolomites, NE Italy). *Natural Hazards and Earth System Sciences*, 20(8), 2157–2174. doi: 10.5194/nhess-20-2157-2020
12. Forno M.G., Gattiglio M., Gianotti F., Rossato S., Taddia G. (2020) – Deep-seated gravitational slope deformation effects on Quaternary deposits in the Western Alps (NW Italy). *Alpine and Mediterranean Quaternary*, 33(1), 43–60. doi: 10.26382/AMQ.2020.03
13. Martin S., Ivy-Ochs S., Viganò A., Campedel P., Rigo M., Vockenhuber C., Gabrieli F., Mair V., Rossato S. (2020) – Landslides of the Western Dolomites: case studies from the Adige and Sarca valleys (NE Italy). *Alpine and Mediterranean Quaternary*, 33(2), 191–207. doi: 10.26382/AMQ.2020.15
14. Martin S., Fedrizzi F., Boaga J., Cenni N., Agnini C., Cortellazzo G., Rossato S. (2020) – Paleo-Seismicity in the Euganean Hills Province (Northeast Italy): constraints from geomechanical and geophysical tests in the Schio-Vicenza Fault area. *Frontiers in Earth Science*, 8, art. 586897. doi: 10.3389/feart.2020.586897
15. Monegato G., Mozzi P., Paiero G., Rossato S. (2020) – Sedimentary evidence of glacial lake outburst floods (GLOFs) during the Last Glacial Maximum in the Venetian-Friulian plain (NE Italy). *Quaternary International*, 538, 44–52. doi: 10.1016/j.quaint.2018.04.042
16. Pajola M., Pozzobon R., Lucchetti A., Rossato S., Baratti E., Galluzzi V., Cremonese G. (2019) – Abundance and size-frequency distribution of boulders in Linné crater’s ejecta (Moon). *Planetary and Space Science*, 165, 99–109. doi: 10.1016/j.pss.2018.11.008
17. Rossato S., Carraro A., Monegato G., Mozzi P., Tateo F. (2018) – Glacial dynamics in pre-Alpine narrow valleys during the Last Glacial Maximum inferred by lowland fluvial records (northeast Italy). *Earth Surface Dynamics*, 6, 809–828. doi: 10.5194/esurf-6-809-2018
18. Rossato S., Martin S., Ivy-Ochs S., Viganò A., Vockenhuber C., Rigo M., Surian N., Mozzi P. (2018) – Post-LGM catastrophic landslides in the Dolomites: when, where and why. *Alpine and Mediterranean Quaternary*, 31(1), 239–242.
19. Fontana A., Ronchi L., Rossato S., Mozzi P. (2018) – Lidar-derived DEM for geoarchaeological investigations in alluvial and coastal plains. *Alpine and Mediterranean Quaternary*, 31(1), 209–212.
20. Mozzi P., Ferrarese F., Zangrando D., Gamba M., Vigoni A., Sainati C., Fontana A., Ninfo A., Piovan S., Rossato S., Veronese F. (2018) – The modeling of archaeological and geomorphic surfaces in a multi-stratified urban site in Padua, Italy. *Geoarchaeology*, 33(1), 67–84. doi: 10.1002/gea.21641
21. Viganò A., Zampieri D., Rossato S., Martin S., Selli L., Prosser G., Ivy-Ochs S., Campedel P., Fedrizzi F., Franceschi M., Rigo M. (2018) – Past to present deformation of the central-eastern Southern Alps: from the foreland to the Giudicarie belt. *Geological Field Trips and Maps*, 10(1/1). doi: 10.3301/GFT2018.01
22. Fontana A., Vinci G., Tasca G., Mozzi P., Vacchi M., Bivi G., Salvador S., Rossato S., Antonioli F., Asioli A., Bresolin M., Di Mario F., Hajdas I. (2017) – Lagoonal settlements and relative sea level during Bronze Age in Northern Adriatic: Geoarchaeological evidence and paleogeographic constraints. *Quaternary International*, 439, 17–36. doi: 10.1016/j.quaint.2016.12.038
23. Pajola M., Rossato S., Baratti E., Pozzobon R., Quantin C., Carter J., Thollot P. (2017) – Boulder abundances and size-frequency distributions on Oxia Planum-Mars: Scientific implications for the 2020 ESA ExoMars rover. *Icarus*, 296, 73–90. doi: 10.1016/j.icarus.2017.05.011

24. Rossato S., Mozzi P. (2016) – Inferring LGM sedimentary and climatic changes in the southern Alpine foreland through the analysis of a 14C ages database (Brenta megafan, Italy). *Quaternary Science Reviews*, 148, 115–127. doi: 10.1016/j.quascirev.2016.07.013
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## Geological and Geothematic Cartography

- CARG Geological Sheet 127 – Mestre, scale 1:50,000, explanatory notes and digital database. Delivered; awaiting publication.
- CARG Geological Sheet 087 – Palmanova, scale 1:50,000, explanatory notes and digital database. Delivered; awaiting publication.
- Geological units map of the Friuli Venezia Giulia Plain, scale 1:150,000, with explanatory notes. Regione Autonoma Friuli Venezia Giulia, Trieste, pp. 1–80. ISBN: 9788894039429.
- Geological formational map, GEO-CGT Regione Friuli Venezia Giulia project, scale 1:10,000, with explanatory notes.
  - Sheet 064 – Aviano (sections 064040; 064070; 064080; 064110; 064120; 064140; 064150; 064160).
  - Sheet 085 – Pordenone (sections 085020; 085030; 085060; 085070; 085110; 085120).
  - Sheet 048 – Tramonti di Sotto (sections 048140; 048150).