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Data di nascita: 04/04/1975

Codice Fiscale: TRLPLA75D04D284N



PROFESSORE ORDINARIO (L. 240/10)

Settore Concorsuale 07/C1 – Ingegneria agraria, forestale e dei biosistemi

SSD: AGR/08 Idraulica Agraria e Sistemazioni Idraulico Forestali

Dipartimento Territorio e Sistemi Agroforestali

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Publons: <https://publons.com/researcher/1191792/paolo-tarolli>

Google Scholar: <https://scholar.google.com/citations?user=Ryfb3D8AAAAJ&hl=en>

## SOMMARIO

Paolo Tarolli è **Professore Ordinario** (L. 240/10) presso l'Università degli Studi di Padova, docente (nell'ambito dei corsi di laurea magistrale LM-61, LM-69, LM-73, LM-80) responsabile dei corsi *Integrated Watershed Management* e *Water Resources Management* (in inglese) e *Antropocene Paesaggio Acqua e Suolo* (in italiano) e di un modulo del corso *Sustainable resources-efficient food production and processing* (in inglese). Ricopre l'incarico di **Visiting Professor** presso la Dalian University of Technology (P.R. Cina) e di **Adjunct Professor** presso la University of Georgia (USA) e Alexandru Ioan Cuza University of Iași (Romania). È **Vice Presidente** della 1a Sezione - utilizzazione del suolo e delle acque della Associazione Italiana di Ingegneria Agraria (AIIA) dal 2022 ed è stato **Deputy President** della Natural Hazard division per la European Geosciences Union (EGU) dal 2019 al 2022. È **Chief Executive Editor** della rivista *Natural Hazards and Earth System Sciences*; **Associate Editor** delle riviste *International Soil and Water Conservation Research*, *Land Degradation & Development*, *Remote Sensing*, e **Editorial Board Member** di altre 7 riviste internazionali indicizzate Scopus e WoS.

I suoi principali interessi di ricerca riguardano l'impiego di dati topografici ad alta risoluzione, ricavati mediante le più recenti tecniche di remote sensing, per una migliore comprensione, anche con approccio modellistico e raccolta di dati di campo, dei processi naturali ed antropici in relazione alla dinamica idrogeomorfologica, toccando tematiche inerenti l'idrologia e i fenomeni di dissesto ed erosivi in ambito agrario e forestale, l'erosione spondale nelle reti di drenaggio agricolo, il ristagno idrico in aree gestite con le tecniche dell'agricoltura conservativa, il rilevamento di canali, argini, reti di drenaggio e la valutazione della loro capacità di invaso in contesto agrario e di bonifica. Ha sviluppato nuovi algoritmi per il riconoscimento automatico e semiautomatico delle forme morfologiche utilizzando la tecnologia lidar e la tecnica di fotogrammetria SfM. Ha condotto sperimentazioni sul campo allestendo plot per la quantificazione del deflusso ed erosione in contesto agricolo collinare e di pianura.

In particolare, la ricerca che ha condotto negli ultimi anni ha fornito, per la comunità scientifica, un progresso significativo nella comprensione delle problematiche dei paesaggi di fronte alle crescenti pressioni antropiche, al degrado dovuto all'abbandono delle terre coltivate, ed al cambiamento climatico. Lo sviluppo di queste tematiche scientifiche ha portato all'instaurarsi di un'articolata relazione con i principali stakeholder nel settore agricolo (ad es. consorzi di tutela dei vini, consorzi di bonifica, federazione degli agricoltori), coordinamento di progetti di ricerca e trasferimento di conoscenze a sostegno dell'agricoltura sostenibile.

Ad oggi è co-autore di **più di 150 articoli scientifici** indicizzati Scopus (un articolo pubblicato su *Nature Food* e 4 review su invito) dai quali emerge un approccio multidisciplinare in linea con le caratteristiche tipiche del settore SSD AGR/08 (e macrosettore 07/C1); più del 75% degli articoli (fonte Scopus) risulta con primo o ultimo nome o *corresponding author* e circa il 59% sono stati pubblicati negli ultimi 5 anni. L'articolo *review* su invito pubblicato sulla rivista *Geomorphology* nel 2014 a singolo nome, che riassume lo stato della scienza sul ruolo della topografia ad alta risoluzione per la comprensione dei processi della superficie terrestre, ha avuto un ampio riconoscimento nella comunità scientifica ricevendo una media di 41 citazioni/anno. Nel 2020 e 2021 è stato inserito nella lista dei **100,000 scienziati più citati al mondo** (classifica di Elsevier BV e Stanford University, fonte Scopus). È stato **relatore su invito di 35 presentazioni** a conferenze internazionali (EGU, IGC, AAG, ISPRS, RGS-IBG, AOGS-AGU, Soil Science Society of China) ed in istituti di ricerca internazionali e Accademie straniere di alta qualificazione (fra le quali Princeton University, Ecole Polytechnique Fédérale de Lausanne, Beijing Normal University).

È **Coordinatore** della Commissione Terza Missione e Comunicazione del Dip. TESAF dell'Università di Padova. È membro del comitato di valutazione (panel) per i progetti internazionali FTC (Portogallo), FWO (Belgio), NERC (UK), NCN (Polonia). È revisore per MIUR, Netherlands Organization for Scientific Research (NWO), U.S. National Science Foundation (NSF), International Swiss National Science Foundation (SNSF), Natural Environment Research Council (NERC), National Science Centre (NCN) of Poland, FWF Austrian Science Fund, MIUR. È membro delle società scientifiche AGU, EGU, BSG, AIIA.

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## FORMAZIONE

- 2006 **Dottorato di ricerca:** Gestione Ambientale dei Bacini Idrografici e Tecniche di Rappresentazione del Territorio, con tesi dal titolo “*Metodi per l’analisi integrata della stabilità dei versanti*”, Università degli Studi di Padova
- 2003 **Esame di Stato:** abilitazione alla professione di dottore agronomo e forestale
- 2002 **Master 1° livello:** Difesa e Manutenzione del Territorio, con tesi dal titolo “*Impiego di sensori remoti per l’analisi e distribuzione di fenomeni particolarmente intensi sul territorio*”, Università degli Studi di Padova
- 2001 **Laurea:** Scienze Forestali ed Ambientali, con tesi dal titolo “*Utilizzo del Radar Meteorologico per il monitoraggio dei fenomeni meteorologici intensi*”, Università degli Studi di Padova

## CARRIERA

- 2022 – presente **Professore Ordinario** (L. 240/10): Dipartimento TESAF, Università di Padova
- 2020 – presente **Visiting Professor:** Dalian University of Technology, Beijing (P.R. China)
- 2018 – presente **Adjunct Professor.** Alexandru Ioan Cuza University of Iași (Romania)
- 2018 **Abilitazione Scientifica Nazionale I fascia** ottenuta il 15/10/2018, Settore Concorsuale 07/C1 – Ingegneria agraria, forestale e dei biosistemi (SSD: AGR/08 Idraulica Agraria e Sistemazioni Idraulico Forestali)
- 2017 – presente **Adjunct Professor:** University of Georgia (USA)
- 2017 **Visiting Professor:** Guangzhou University, Beijing (P.R. China)
- 2015 – 2022 **Professore Associato** (L. 240/10): Dipartimento TESAF, Università di Padova
- 2013 – 2019 **Visiting Professor:** China University of Geosciences, Beijing (P.R. China)
- 2011 – 2014 **Ricercatore:** Dipartimento TESAF, Università degli Studi di Padova
- 2011 – 2013 **Visiting Professor:** Earth Sci. Dept., National Cheng Kung University (Taiwan)
- 2011 **Visiting Professor:** School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
- 2010 **Marie Curie Fellow:** Inst. of Inland Waters, Hellenic Cent. for Marine Res. (Greece)
- 2012 – 2013 **Professore Aggregato:** Università Politecnica delle Marche
- 2009 – 2011 **Professore a Contratto:** Università Politecnica delle Marche
- 2008 **Visiting Scholar:** St. Anthony Falls Laboratory, University of Minnesota, USA
- 2006 – 2010 **Assegnista di Ricerca:** Dipartimento TESAF, Università degli Studi di Padova
- 2005 **Visiting Scholar:** Civil and Env. Eng. Dept., Utah State University, USA

## ATTIVITÀ DIDATTICA

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### Insegnamenti in lingua inglese presso Università di Padova

- **Integrated Watershed Management** I Università di Padova (6 CFU, 48 ore)  
(LM-73 - Classe delle lauree magistrali in Scienze e tecnologie forestali ed ambientali)  
anni accademici (11): 11/12, 12/13, 13/14, 14/15, 15/16, 16/17, 17/18, 18/19, 19/20, 20/21, 21/22
- **Water Resources Management** I Università di Padova (6 CFU, 48 ore)  
(LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)  
anni accademici (6): 16/17, 17/18, 18/19, 19/20, 20/21, 21/22
- **Soil and Water Resources Management** I Università di Padova (6 CFU, 48 ore)  
(LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)  
anni accademici (2): 14/15, 15/16
- **Sustainable resources-efficient food production and processing** I Università di Padova (responsabile modulo di 2 CFU, 16 ore)  
(LM-61 - Classe delle lauree magistrali in Scienze della nutrizione umana)  
anni accademici (1): 21/22

### Insegnamenti in lingua italiana presso Università di Padova

- **Antropocene, Paesaggio, Acqua, Suolo** I Università di Padova (6 CFU, 42 ore)  
(LM-80 - Classe delle lauree magistrali in Scienze geografiche)  
anni accademici (1): 21/22
- **Applicazioni GIS in agricoltura** I Università di Padova (4 CFU, 32 ore)  
(LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)  
anni accademici (7): 14/15, 15/16, 16/17, 17/18, 18/19, 19/20, 20/21
- **Idraulica agraria** I Università di Padova (6 CFU, 48 ore)  
(LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)  
anni accademici (1): 13/14

### Insegnamenti in lingua italiana presso altri atenei italiani

- **Sistemazioni Idraulico-Forestali** I Università Politecnica delle Marche (6 CFU, 54 ore)  
(L-25 - Classe delle lauree in Scienze e tecnologie agrarie e forestali)  
anni accademici (2): 11/12, 12/13
- **Sistemazioni Idraulico-Forestali** I Università Politecnica delle Marche (5 CFU, 45 ore)  
(L-25 - Classe delle lauree in Scienze e tecnologie agrarie e forestali)  
anni accademici (3): 08/09, 09/10, 10/11

### Insegnamenti in lingua inglese presso atenei internazionali

- **GIS analysis in lowland agricultural landscapes** I Guangzhou University, China (16 ore)  
anni accademici (1): 17/18
- **Digital Terrain Analysis** I China University of Geosciences, China (32 ore)  
anni accademici (3): 16/17, 17/18, 19/20
- **Digital Geomorphology & Statistical Analysis** I China Univ. of Geosciences, China (32 ore)  
anni accademici (2): 13/14, 14/15
- **Digital Terrain Analysis** I National Cheng Kung University, Taiwan (50 ore)  
anni accademici (1): 13/14

### Insegnamenti a Master I e II livello

- **Cambiamenti Climatici, Dissesto Idrogeologico e Società** I Università di Padova (5 ore)  
(Master II livello in Progettazione e Valutazione delle Politiche e dei Servizi)  
anni accademici (5): 17/18, 18/19, 19/20, 20/21, 21/22
- **Modelli digitali del terreno e geomorfometria** I Università di Padova (2 CFU, 16 ore)  
(Master II livello in GiScience e Sistemi a Pilotaggio Remoto per la gestione integrata del territorio e delle risorse naturali)  
anni accademici (7): 15/16, 16/17, 17/18, 18/19, 19/20, 20/21, 21/22
- **Informazione topografica di dettaglio in supporto alle sistemazioni del terreno** I Università di Teramo (0.5 CFU, 4 ore)  
(Master I livello in Agricoltura di Precisione)  
anni accademici (2): 16/17, 17/18

### Progetti di didattica su bandi competitivi

- **UNIPD-NCKU Joint Summer School** "Natural Hazards in the Italian Alps" I Università di Padova (6 giorni) *responsabile scientifico e coordinamento didattico*  
anno 2014 (bando di Ateneo International Summer & Winter School 2014)
- **EGU2013 Summer school** "Understanding Earth-Surface Processes in the Alpine Environment from High Resolution Topography" I European Geosciences Union & Università di Padova (6 giorni) *responsabile scientifico e coordinamento didattico*  
anno 2013 (bando di Ateneo International Summer & Winter School 2013, bando EGU training schools)

## ATTIVITÀ DI SERVIZIO AGLI STUDENTI E SUPERVISIONE ASSEGNISTI

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### Post Dottorato e/o Assegnisti

*Supervisore (tot.4):* **Anton Pijl** (2020-2021); **Eugenio Straffelini** (2019-2021); **Sara Cucchiario** (2019-2020); **Giulia Sofia** (2013-2018) vincitrice premio Arne Richter Awards for Outstanding Early Career Scientists by EGU

### Dottorandi

*Supervisore (tot.9):* **Eugenio Straffelini** (2021-2024) premio Best Speaker International Geographical Union 2021, **Junliang Qiu** (2021-2024) vincitore China Scholarship Council award, **Wendi Wang** (2020-2023) vincitrice China Scholarship Council award, **Luca Mauri** (2019-2022) vincitore premio WASWAC Youth Outstanding Paper Award 2021, **Zhang Qifei** (2018-2021), **Anton Pijl** (2017-2020), **Wenfang Cao** (2017-2019) vincitrice EGU ECSTS award & China Scholarship Council award, **Giulia Roder** (2016-2018) vincitrice EGU travel award CNDS/EGU Summer School, **Massimo Prosdocimi** (2014-2017)

*Co-Supervisore (tot.8):* **Lin Chen** (2021-2022) at Northwest A&F University; **Alessia Giarola** (2021-2023) presso Università di Pavia; **Jian Luo** (2021-2022) at Sichuan Agricultural University; **Eros Borsato** (2017-2019) (EGU ECSTS award), **Kamila Pawłuszek** (2017-2019) at Wroclaw University of Environmental and Life Sciences premio migliore tesi di dottorato della Polonia "Minister of Development, Labor and Technology"; **Jie Xiang** (2015-2018) at China University of Geosciences in Beijing; **Jin Wang** (2014-2018) at Chinese Academy of Science; **Ke Li** (2013-2015) at China University of Geosciences in Beijing

### Tesi di laurea magistrali

*Relatore (tot.37) Università di Padova:* Giacomo Pavanello (2022), Irene Dell'Olio (luglio 2022), Lia Becvar (febbraio 2022), Davide Gomiero (2021), Burcu Berk (2021), Hiba Mohammad (2021), Andrea Totti (2021), Elia Bortoletti (2020), Sofia Michieli (2020), Luigi Mancin (2020), Lorenzo Arcari (2020), Giacomo Nalin (2019), Eugenio Straffelini (2018), Edoardo Quarella (2018), Gaetano Imperatore (2018), Luca Mauri (2018), Michele Tosoni (2017), Loris Torresani (2017), Simone Toffanin (2017), Francesca Breda (2017), Elena Feo (2017), Manuel Stefani (2017), Andrea Gazzin (2017), Jessica de Marco (2016), Federica Varisco (2016), Davide Todeschini (2016), Marco Cecchin (2016), Giulia Lo Re (2016), Federica Basso (2016), Nicoletta Pradetto Sordo (2016), Gianluca Favaro (2015), Alberto Bollettin (2015), Arianna Lorenzato (2015), Giulia Roder (2014), Valeria Contessa (2014), Francesca Savio (2013), Massimo Prosdocimi (2012)

*Relatore (tot.2) Università Politecnica delle Marche:* Manuela Mancini (2012), Francesca Brutti (2012)

*Correlatore (tot.1) Università di Padova:* Aurora Ghirardelli (2019)

*Correlatore (tot.4) Wageningen University & Research:* Tim Willem Janssen (2022) Roxane Bradaczek (2022), Esmee Goudriaan (2020), Anton Pijl (2017)

### Tesi di laurea triennali

*Relatore (tot.5) Università di Padova:* Alice Marcassa (2019), Giovanni Bellan (2017), Claudio Mura (2016), Federica Pizzulli (2016), Ylenia Gelmini (2014)

*Relatore (tot.3) Università Politecnica delle Marche:* Sofia Paccapelo (2013), Giulia Lucesoli (2012), Alessandro Vitali (2011)

## ATTIVITÀ DI RICERCA: COORDINAMENTO E PARTECIPAZIONE A PROGETTI

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### Internazionali (tot.9)

- |             |   |
|-------------|---|
| 2018 – 2023 | <i>TerrACE</i> - Terrace Archaeology and Culture in Europe (EU H2020 ERC-AdG) <b>2,600,000€</b> (PI - WP1) <b>COORDINATORE UNITÀ OPERATIVA</b>  |
| 2016 – 2018 | <i>HighLandDEM</i> - High-resolution Digital Elevation Models (DEM) in rainfed Mediterranean cultivated Landscapes for long-term monitoring of artificial features with hydrological impact (ENVIMED French cooperation initiative) <b>18,000€</b> (PI - WP2) <b>COORDINATORE UNITÀ OPERATIVA</b> |
| 2013 – 2018 | Attività di ricerca e rilievi di campo, finalizzati alla mappatura delle criticità di miniere a cielo aperto con impiego di droni, nell'ambito di un progetto di ricerca della China University of Geosciences (P.R. Cina) <b>PARTECIPAZIONE PROGETTO</b>   |

- 2011 – 2014 *ARNICA* - Assessment of Risks on transportation Networks resulting from slope Instability and Climate change in the Alps (ERA-NET CIRCLE Mountains) **45,000€** [PARTECIPAZIONE PROGETTO](#)  
Attività di ricerca e rilievi di campo (Val Ferrett, Svizzera) nell'ambito di un progetto di ricerca della École Polytechnique Fédérale de Lausanne (EPFL) (Svizzera)
- 2011 – 2012 [PARTECIPAZIONE PROGETTO](#)  
Attività di ricerca finalizzata all'impiego dei dati LIDAR per la mappatura automatica di frane (attivate da fenomeni meteorologici intensi) in area montana; progetto di ricerca della National Cheng Kung University (Taiwan) [PARTECIPAZIONE PROGETTO](#)
- 2011 – 2012 *INTERREG IV A Austria-Italy* - Minimal standards for compilation of danger maps like landslides and rock fall as a tool for disaster prevention. [PARTECIPAZIONE PROGETTO](#)
- 2008 – 2011 *FLOODSITE* - Integrated flood risk analysis and management methodologies (EU VI Framework Programme) **267,179€** [PARTECIPAZIONE PROGETTO](#)
- 2006 – 2008 *INTERREG III A Italy-Slovenia* FRANE – Foreste: Recupero Ambientale Naturalistico Ecologico [PARTECIPAZIONE PROGETTO](#)
- 2006 [PARTECIPAZIONE PROGETTO](#)
- Nazionali (tot.11)**
- 2019 – 2022 *SOiLUTION SYSTEM* - Innovative solutions for soil erosion risk mitigation and a better management of vineyards in hills and mountain landscapes (PSR Veneto 2014-2020) **450,000 € (co-PI & PI - WP1)** [COORDINATORE SCIENTIFICO PROGETTO](#)
- 2021 – 2023 Analisi e gestione sostenibile delle risorse idriche e del suolo in agricoltura, *Consorzio di Bonifica di Il grado Lessinio Euganeo Berico* **25,000 € (PI)** [COORDINATORE PROGETTO](#)
- 2019 – 2022 *FITOCHE* - From field to cheese (PSR Veneto 2014-2020) **300,000 € (PI - WP4)** [COORDINATORE UNITÀ OPERATIVA](#)
- 2018 – 2021 *ViTe* - Vineyard Terraced landscapes: understanding the Environmental constraints to improve sustainable managements (Univ. di Padova) **60,000€ (PI)**, [COORDINATORE PROGETTO](#)
- 2017 “Mapping the physical imprint of social change across Italian landscapes in three dimensions using advanced remote sensing” (Fondazione Cassa di Risparmio di Padova e Rovigo – bando Visiting Professor) (PI), [COORDINATORE PROGETTO](#)
- 2015 – 2017 CPDR147412/14 - Artificial drainage networks evolution in a reclamation area of Veneto floodplain: evaluation of the NSI index (Univ. di Padova) **46,666€ (PI)**, [COORDINATORE PROGETTO](#)
- 2014 – 2020 *NIP* - New industrial plan for dairy sector (POR FESR – Regione del Veneto) **608,024€** [PARTECIPAZIONE PROGETTO](#)
- 2012 – 2013 CPDR122903/12 - Impiego della topografia ad alta risoluzione per la definizione automatica di elementi geometrici della rete idrografica (Univ. di Padova) **22,946€ (PI)**, [COORDINATORE PROGETTO](#)
- 2011 – 2013 *GRIMICID* - Gestione della Rete Idrica Minore per il Controllo dell'Inquinamento da Diserbanti (PSR Veneto 2007 – 2013) **170,000€** [PARTECIPAZIONE PROGETTO](#)
- 2006 PRIN2005 – Rete nazionali di bacini sperimentali per il monitoraggio e la modellazione dei fenomeni di dissesto [PARTECIPAZIONE PROGETTO](#)
- 2005 Progetto d'Ateneo 2005 – Analisi e modellazione della produzione di sedimento da franamento superficiale in bacini forestali alpini (Univ. di Padova) [PARTECIPAZIONE PROGETTO](#)

## PARTECIPAZIONE A COMITATI EDITORIALI RIVISTE INTERNAZIONALI

Attualmente membro del comitato editoriale di **tot.11** riviste internazionali indicizzate Scopus e Web of Science, con i seguenti ruoli:

- 2022 – presente **Associate Editor**: Int. Soil and Water Conservation Res. (Elsevier) *IF6.027 Q1*
- 2020 – presente **Chief Executive Editor**: NHESS (Copernicus) *IF4.345 Q1*
- 2020 – presente **Editorial Board Member**: Geography and Sustainability (Elsevier) *indexed Scopus/WoS*
- 2018 – presente **Associate Editor**: Land Degradation & Development (Wiley) *IF4.977 Q1*
- 2019 – presente **Editorial Board Member**: Heliyon (Cell Press) *indexed WoS / Citescor 2.1 Q1*
- 2018 – presente **Editorial Board Member**: iScience (Cell Press) *IF5.458 Q1*
- 2017 – presente **Associate Editor**: Remote Sensing (MDPI) *IF4.848 Q1*
- 2017 – presente **Editorial Board Member**: Quaternary (MDPI) *indexed Scopus/WoS*
- 2015 – presente **Editorial Board Member**: Anthropocene (Elsevier) *IF3.964 Q2*
- 2014 – presente **Editorial Board Member**: Earth Surface Processes and Landforms (Wiley) *IF4.133 Q1*
- 2014 – presente **Editorial Board Member**: Journal of Mountain Science (Springer) *IF2.071 Q3*
- 2018 – 2020 **Executive Editor**: NHESS (Copernicus)
- 2014 – 2018 **Editorial Board Member**: Land Degradation & Development (Wiley)
- 2012 – 2018 **Editorial Board Member**: NHESS (Copernicus)

## COMITATI DI VALUTAZIONE E REVISIONE PROGETTI/RIVISTE

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### Membro comitato di valutazione progetti internazionali

- 2021 **Membro del Panel** CEECInd 4th Ed | Earth and Environmental Sciences, **Fundação para a Ciência e a Tecnologia FTC** (Portogallo) (**tot.44 progetti valutati**)
- 2021 Earth sciences (ST10) **Expert Panel**, **National Science Centre NCN** (Polonia) (**tot.13 progetti valutati**)
- 2021 **Membro del Panel** WT 8 Fellowship on Sciences of the Earth and Space – **Research Foundation Flanders FWO** (Belgio) (**tot.10 progetti valutati**)
- 2020 – 2021 **Co-Chair del Panel** Complaint Analysis (Natural Science) nell'ambito di R&D Units Evaluation 2017-18 - **Fundação para a Ciência e a Tecnologia FTC** (Portogallo) (**tot.4 progetti valutati**)
- 2020 – presente **Membro del Review College** **Research Foundation Flanders FWO** (Belgio)
- 2018 **Membro del Panel** **NERC: Newton Fund** (United Kingdom) (**tot.7 progetti valutati**)

### Membro comitato di valutazione premi internazionali

- 2021 **Membro del comitato di valutazione** **WASWAC Youth Paper Award 2021** (World Association of Soil and Water Conservation) (**tot.5 papers valutati**)
- 2019 – presente **Membro del comitato di valutazione** **ECS award EGU Natural Hazards Division** (European Geosciences Union)

### Revisore progetti di ricerca internazionali e nazionali

- 2013 – presente (**tot.19 progetti revisionati: 16 internazionali, 3 nazionali**): MIUR, Ministry of Education and Science (Republic of Kazakhstan), U.S. National Science Foundation (NSF), Netherlands Organization for Scientific Research (NWO), National Science Centre (NCN) of Poland, Natural Sciences and Engineering Research Council of Canada, Swiss National Science Foundation (SNSF), FWF Austrian Science Fund, EU Commission, Università di Sassari

### Revisore riviste internazionali

**tot. 482 papers revisionati** per riviste internazionali fra cui Science, Nature (dati aggiornati su Publons & Web of Science al 17 gennaio 2022)

## PREMI/AWARD E RICONOSCIMENTI

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### Internazionali

- 2020/21 Inserito nella lista dei **100,000 top world's most cited scientists** (fonte Elsevier/Scopus)
- 2019 **Top Peer Review Award** *Cross-Field* (Clarivate Analytics - Web of Science)
- 2019 **Top Peer Review Award** *Geosciences* (Clarivate Analytics - Web of Science)
- 2018 **Top Peer Review Award** *Geosciences* (Clarivate Analytics - Web of Science)
- 2018 **Top Peer Review Award** *Environment/Ecology* (Clarivate Analytics - Web of Science)
- 2017 **Outstanding Editor** *Journal of Mountain Science* (Chinese Academy of Sciences)
- 2017 **Top Peer Review Award** *Environ. Science* (Clarivate Analytics - Web of Science)
- 2017 **Top Peer Review Award** in *Remote Sensing* (Clarivate Analytics - Web of Science)
- 2017 **Top Peer Review Award** in *Earth & Planet. Sci.* (Clarivate Analytics - Web of Science)
- 2014 **Most Cited Publication** "Tarolli et al. 2014", journal *Anthropocene* (awarded by Elsevier)
- 2011 **Editors' Citation** for Excellence in Refereeing for WRR given by AGU
- 2010 **Outstanding Reviewer** for the *Journal of Hydrologic Engineering*, ASCE

### Nazionali

- 2012 **Premio GII – IDRA 2012**, miglior poster idrologia applicata, XXXIII Convegno di Idraulica e Costruzioni Idrauliche (Gruppo Italiano di Idraulica)
- 2010 **Premio GII – IDRA 2010**, miglior poster idraulica agraria, XXXII Convegno di Idraulica e Costruzioni Idrauliche (Gruppo Italiano di Idraulica)

## FELLOWSHIPS

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- 2014 *Visiting Professor* **Appointment Agreement of Distinguished Scholars** at China University of Geosciences in Beijing (P.R. China)
- 2013 *Visiting Professor* **Appointment Agreement of Distinguished Scholars** at National

- 2010 Cheng Kung University (Tidaiwan)  
**Marie Curie Fellow** – Excellence Grant for Experienced Researcher within PreWEC project at the Hellenic Center for Marine (Institute of inland Water) (Greece)

## COMITATI SCIENTIFICI E ORGANIZZAZIONE CONVEGNI/WORKSHOP

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### Membro Comitato Scientifico (**tot.13**: 12 internazionali, 1 nazionale)

- 2022 12<sup>th</sup> Italian Society of Agricultural Engineering (AIIA) Conference in Palermo  
 2021 AOGS-EGU Joint Conference on New Dimensions for Natural Hazards in Asia  
 2020 AOGS-EGU Joint Conference on New Dimensions for Natural Hazards in Asia  
 2015/16/17/18/19/20 European Geosciences Union General Assembly – **Science Officer** Natural Hazard Division (**tot.6 convegni**)  
 2016/17/18/19 European Geosciences Union General Assembly – **Committee Chair** Soil System Science Division SSS11 (**tot.4 convegni**)

### Organizzatore convegni/workshop (**tot.38**: 37 internazionali, 1 nazionale)

- 2021 **Presidente Comitato Organizzatore** – Int. **Forum Land Degradation, Soil Conservation and Sust. Development - LASOSU**. Convegno organizzato da World Association of Soil and Water Conservation, Associazione Italiana di Ingegneria Agraria, Soil and Water Conservation Society in China, Università di Padova, Dalian University of Technology)(500 partecipanti)  
 2021 **Organizzatore e moderatore** – **Ciclo di 24 seminari**, per ricercatori e studenti, liberi professionisti ed enti, inerenti "Idraulica Agraria e le Sistemazioni Idrauliche nelle applicazioni agro-ambientali (evento 1a sezione dell'Associazione Italiana Ingegneria Agraria co-organizzato con Dip. TESAF-UNIPD, Università di Perugia, Università della Basilicata) (media per seminario 50 partecipanti in Zoom)  
 2020 **Presidente Comitato Organizzatore** – Int. **Workshop** on "Remote Sensing for land degradation analysis and sustainable management of agroforestry systems". Convegno internazionale organizzato da Associazione Italiana di Ingegneria Agraria - AIIA)(400 partecipanti)  
 2017 **Workshop** for young geomorphologists: "Short course in geomorphometry: Getting the most out of DEMs of Difference", European Geosciences Union General Assembly 2017 (evento co-organizzato con Tobias Heckmann e Wolfgang Schwanghart)  
 2016 **Workshop** for young geomorphologists: "Digital Terrain Analysis of Anthropogenic Landscapes", European Geosciences Union General Assembly 2016 (evento co-organizzato con Tobias Heckmann e Wolfgang Schwanghart)  
 2015 **Workshop** for young geomorphologists: "Quantitative interrogation of high-resolution DTMs", European Geosciences Union General Assembly 2015 (evento co-organizzato con Tobias Heckmann e Wolfgang Schwanghart)

- **European Geosciences Union (tot.29 sessioni organizzate come convener e chairman)**

- EGU2021, NH6.7 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"  
 EGU2021, SSS11.1/GI6.6 "Development of New Technologies in Soil Conservation and Eco Sustainability",  
 EGU2020, EBM7 "Editorial board meeting of Natural Hazards and Earth System Sciences (NHSS)"  
 EGU2020, NH6.1/GM2.24 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"  
 EGU2020, SSS11.4 "Development of new technologies in soil conservation and eco sustainability"  
 EGU2019, NH6.1/GI3.20/HS11.38 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"  
 EGU2019, SSS12.3 "New technologies in soil conservation and eco-sustainability: supporting decision making"  
 EGU2018, HS2.2.3 "Lowlands: A hydrologic challenge in the global environmental change era"  
 EGU2018, NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"  
 EGU2018, NH9.4 "Natural hazard impacts on technological systems and infrastructures"  
 EGU2018, SSS2.3/GM6.11/NH11.2 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"  
 EGU2017, GM13.1/SC1 "Short course in geomorphometry: Getting the most out of DEMs of Difference"  
 EGU2017, HS2.2.3 "Lowlands: A hydrologic challenge in the global environmental change era"  
 EGU2017, NH3.12 "Landslide and Landslide Susceptibility Interactions with Transport Lines"  
 EGU2017, SMP48 "Subdivision SSS12: Material and Methods in Soil Science (public)"  
 EGU2017, SSS2.16/GM7.7/HS11.50 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"  
 EGU2017, SSS10.8/BG9.6/HS9.11 "Soil Erosion, hydrological processes and biological degradation in worldwide vineyards"

- EGU2016, GM6.1/BG7.5/HS11.13/SSS2.22 "Human-Landscape interaction in the Anthropocene"
- EGU2016, GM13.1/SC10/SSS12.25 "Digital Terrain Analysis of Anthropogenic Landscapes"
- EGU2016, SSS2.10/GM6.8/HS11.29/NH3.19 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"
- EGU2015, GM4.1 "Human-Landscape interaction in the Anthropocene"
- EGU2015, GM11.3/SC48 "Quantitative interrogation of high-resolution DTMs"
- EGU2015, SSS2.5/GM6.6/HS12.3 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"
- EGU2014, GM2.1 "Digital Landscapes: Insights into geomorphological processes from quantitative interrogation and use"
- EGU2014, GM4.1/HS9.12/SSS9.18 "Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized)"
- EGU2013, GM2.1 "Digital Landscapes: Insights into geomorphological processes from high-resolution topography, quantitative interrogation and geomorphological mapping"
- EGU2013, GM4.2/SSS6.12 "Landscape in the Anthropocene: state of the art and future directions"
- EGU2012, GM2.2 "Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes"
- EGU2011, GM2.2/NH10.3/PS10.2 "Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes"
- **American Geophysical Union (tot.3 sessioni organizzate come convener e chairman)**
- AGU2020, INV12 - Earth, Agriculture, and Society: Toward Sustainable Development in the Anthropocene
- AGU2018, Fingerprinting the Anthropocene: Observing and Understanding Social Change Across Earth's Landscapes
- AGU2007, H43E/H51L/H52E Remotely Sensed DTMs for Hydrogeomorphic Applications

## ATTIVITÀ ISTITUZIONALI, ORGANIZZATIVE E DI SERVIZIO

### Partecipazione e/o coordinamento commissioni in Dipartimento/Scuola/Ateneo

- 2020 – presente **Coordinatore Scientifico** accordo collaborazione accademica tra Beijing Forestry University e Dip. TESAF dell'Università di Padova
- 2019 – presente **Coordinatore Commissione Terza Missione e Comunicazione** del Dip. TESAF dell'Università di Padova
- 2019 – presente **Membro della Commissione Paritetica** docenti – studenti della Scuola di Ateneo di Agraria e Medicina veterinaria, Università di Padova
- 2018 – presente **Promotore** della co-tutela di dottorato tra China University of Geosciences e Università di Padova
- 2017 – presente **Coordinatore Scientifico** del Memorandum of Understanding tra Massey University (NZ), University of Lincoln (UK) e Università di Padova.
- 2017 – presente **Coordinatore Scientifico** del Memorandum of Understanding tra China University of Geosciences e Università di Padova.
- 2015 **Membro Comitato Tecnico Organizzatore CTO** del corso di Laurea Magistrale Sustainable Agriculture (LM-69)
- 2014 **Coordinatore Comitato Scientifico** Summer school "Natural Hazards in the Italian Alps UNIPD-NCKU Joint Summer School" (summer school co-finanziata bando Ateneo 2014)
- 2013 **Coordinatore Comitato Scientifico** EGU2013 Summer school "Understanding Earth-Surface Processes in the Alpine Environment from High Resolution Topography" (summer school co-finanziata bando Ateneo 2013 e EGU)
- 2012 – presente **Membro del Collegio Docenti** Scuola di Dottorato di Ricerca L.E.R.H. (Land Environment Resources and Health), Università di Padova
- 2012 – 2019 **Membro della Commissione** internazionalizzazione del Dip. TESAF, Università di Padova.
- 2012 – 2015 **Membro della Commissione** di valutazione della ricerca VQR del Dip. TESAF, Università di Padova.
- 2014 **Coordinatore e PI:** UNIPD-NCKU (Italy-Taiwan) Joint Summer School 2014 "Natural Hazards in the Italian Alps"
- 2013 **Coordinatore e PI:** EGU Summer School 2013 "Understanding Earth-Surface Processes in the Alpine Environment from High Resolution Topography"

### Membro commissione esame finale dottorato

- 2011 – presente (**tot.5 commissioni: 3 internazionali, 2 nazionali**): Montpellier SupAgro - INRA (France); Ecole Polytechnique Fédérale de Lausanne (Switzerland); Ecole



Nationale Supérieure des Mines de Saint-Etienne, Alès (France); Università di Trieste (Italy); Università di Genova (Italy).

### Attività Terza Missione Dipartimento/Ateneo

#### Eventi pubblici (tot.4)

- 2021 **Organizzatore & Moderatore:** “Biodiversità parola chiave di sostenibilità”, Festival Sviluppo Sostenibile 2021 (Dip. TESAF, Università di Padova)  
(tot. 28 partecipanti, 386 visualizzazioni Facebook)
- 2021 **Organizzatore & Moderatore:** ciclo di 24 seminari, per ricercatori e studenti, liberi professionisti ed enti, inerenti “Idraulica Agraria e le Sistemazioni Idrauliche nelle applicazioni agro-ambientali (1a sezione dell’Associazione Italiana Ingegneria Agraria – AIIA con Dip. TESAF-UNIPD, Università di Perugia, Università della Basilicata) (media per seminario 50 partecipanti in Zoom)
- 2020 **Organizzatore & Moderatore:** “Cambiamenti climatici e foreste: una sfida per la sostenibilità”, Festival Sviluppo Sostenibile 2020 (Dip. TESAF, Università di Padova)  
(tot. 151 partecipanti, 1295 visualizzazioni Facebook, 247 visualizzazioni Youtube)
- 2020 **Organizzatore con Consorzio Tutela Vini Soave:** convegno “La tutela attiva della Val d’Alpone”, In occasione dell’inaugurazione della 2° Fiera dei Prodotti Agricoli della Val d’Alpone e Val Tramigna (Dip. TESAF e Consorzio Soave)  
(partecipazione 7 sindaci, associazioni di categoria, liberi professionisti, cittadini)

#### Social media (tot.4 pagine amministrate)

- 2019 – presente Amministratore ed Editor della pagina del Dip. Territorio e Sistemi Agro-Forestali TESAF (followers: tot. 2731 Facebook, tot. 671 Instagram, tot. 107 Twitter, tot. 195 LinkedIn, + 200% negli ultimi due anni)

## ATTIVITÀ DI SERVIZIO SOCIETÀ SCIENTIFICHE

- 2022 – presente **Vice Presidente** 1a sezione (utilizzazione del suolo e delle acque), Associazione Italiana Ingegneria Agraria (AIIA)
- 2019 – 2022 **Deputy President** Natural Hazards Division, European Geosciences Union (EGU)
- 2018 – 2021 **Vice Presidente** 7a sezione (tecnologie informatiche e della comunicazione), Associazione Italiana Ingegneria Agraria (AIIA)
- 2016 – 2019 **Committee Chair**, European Geosciences Union SSS subdivision SSS12: *Material and Methods in Soil Science*
- 2015 – 2020 **Science Officer**, European Geosciences Union NH subdivision NH6: *Remote Sensing & Hazards*

Affiliazione | Assoc. Italiana Ingegneria Agraria AIIA (2012-), British Society for Geomorphology (2011-), European Geosciences Union (2006-), American Geophysical Union (2005-)

#### Social media (tot.5 pagine amministrate)

- 2020 – presente Amministratore ed Co-Editor della pagina della Associazione Italiana Ingegneria Agraria (AIIA) (tot. 585 followers Facebook e tot. 255 followers Youtube)
- 2019 – presente Amministratore ed Co-Editor della pagina della EGU NH Division (tot. 932 followers on Facebook e tot. 1822 followers Twitter, + 15% e + 58% negli ultimi due anni)
- 2018 – presente Co-Editor della pagina della rivista NHESS (tot. 2583 followers Twitter, + 29% negli ultimi due anni)

## ATTIVITÀ DI PUBLIC ENGAGEMENT

#### Eventi pubblici (tot.1)

- 2019 **Organizzatore con Coldiretti Padova:** serata per i cittadini, al teatro comunale di Galzignano Terme, per divulgare i risultati della ricerca su quantificazione e geolocalizzazione danni da cinghiali nel Parco Colli Euganei.  
(150 partecipanti: Assessore Agricoltura Regione Veneto, Presidente e Direttore Federazione Coldiretti Padova, associazione cacciatori, tecnici, direttore Parco Colli Euganei, cittadini)

#### Social media (tot.5 pagine amministrate)

- 2017 – presente Amministratore ed Editor della pagina *Earth Surface Processes & Society* (tot. 16049 followers): Facebook (2630 followers), LinkedIn (11297 followers), WeChat (1380 followers), Twitter (517 followers), Instagram (225 followers)

## TRASFERIMENTO DI CONOSCENZE AGLI STAKEHOLDERS

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2019 – 2021	<b>Consorzio Tutela Vini Soave:</b> Soluzioni innovative di sistema per la riduzione del rischio erosivo e una migliore gestione dei suoli in vigneti di collina e di montagna
2017 – 2018	<b>Federazione Provinciale Coldiretti Padova:</b> metodologia per la quantificazione e mappatura dei danni da cinghiale, al fine di una migliore gestione del problema
2016 – presente	<b>Impresa Verde Padova Srl:</b> docenza nell'ambito del corso Imprenditore Agricolo Professionale (IAP) (8 ore per anno; attività di formazione finanziata nell'ambito degli interventi previsti dal Piano di Sviluppo Rurale 2014-2020 Regione del Veneto)
2012 – 2015	Socio Azienda <b>Spinoff</b> Geomatica & Ambiente srl

## IMPATTO MEDIATICO DELL'ATTIVITÀ DI RICERCA SU STAMPA

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### Progetto Soilution System (risultati del progetto)

*Gambero Rosso, VineNews, Qwine, l'Arena di Verona, Venezia Channel, Foodaffairs, Encicario, Coldiretti Verona, Civiltà del bere, Veronaeconomia*

### Quantificazione e geolocalizzazione danni da Cinghiali (articolo pubblicato su *Earth Surf. Proc. Land.*)

*Il Corriere della Sera, Il Gazzettino, Il Mattino, Padova Oggi, TG Padova, ANBI Veneto, Coldiretti magazine nazionale, La Dea della Caccia, BigHunter, Cacciando*

### Quantificazione e geolocalizzazione danni da Nutria (articolo pubblicato su *Earth Surf. Proc. Land.*)

*Radio RAI due (Caterpillar), Il Corriere della Sera, Il Sole 24 Ore, Il Gazzettino, Il Mattino, Il Giornale di Vicenza, L'Arena di Verona, Oggi Treviso, ANBI Veneto, Qdpnews, TVIWEB, Il Bolive*

### Alluvioni e obbligo assicurazioni (articolo pubblicato su *Int. J. Disaster Risk Reduction*)

*Il Giornale di Vicenza*

### Rischio alluvione in veneto (articolo pubblicato su *Scientific Reports*)

*Ansa, Il Giornale di Vicenza, Il Mattino, PadovaOggi, La Difesa del Popolo, L'Azione, Meteoweb, Il Bolive*

## PRINCIPALI COLLABORAZIONI INTERNAZIONALI

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Ciprian Margarint, *geomorphology and hazards*, Alexandru Ioan Cuza University of Iasi (Romania)  
 Erle C. Ellis, *Anthropocene debate*, University of Maryland (USA)  
 Federico Preti, *agricultural terraces*, University of Florence (Italy)  
 Jean-Stéphane Bailly, *remote sensing analysis of agricultural landscapes*, AgroParisTech (France)  
 Jianping Chen, *open-pit mining monitoring with UAV*, China University of Geosciences (P.R. China)  
 Mark Macklin, *floods & human health in anthropogenic landscapes*, University of Lincoln (UK)  
 Nunzio Romano, *surface runoff in agriculture*, University of Naples Federico II (Italy)  
 Tony Brown, *agricultural terraces*, UiT The Arctic University of Norway (Norway)  
 Xiangzhou Xu, *soil and water conservation*, Dalian University of Technology (P.R. China)  
 Zhifeng Wu, *human-induced land-use change effect on the environment*, Guangzhou Univ. (P.R. China)

## PRESENTAZIONI SU INVITO

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### Invited talk a Convegni scientifici internazionali di alto impatto (**tot.12**, incl. 3 keynote)

- 2021 *Landslides in steep-slope agricultural landscapes*. [Fifth World Landslide Forum in Kyoto, 2020](#) (Japan)
- 2021 *Earth, Agriculture, and Society: towards sustainable development in the Anthropocene*. [International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 \(LASOSU2021\)](#), online, Dalian (P.R. China).
- 2021 *The Geomorphology of Life*. [EGU General Assembly 2021 \(vEGU21\)](#).
- 2021 *Advanced remote sensing techniques for monitoring anthropogenic landscapes*. [EGU General Assembly 2021 \(vEGU21\)](#).
- 2019 *High resolution geomorphologic characterization of conservation agriculture*. [General Assembly 2019 of the Soil Science Society of China](#), Dalian (PR China).
- 2018 *Observing and understanding the impact of socio-economic change on Earth and human health*. [Water and Planetary Health: A Catchment Systems Approach symposium](#) - University of Lincoln, Lincoln (UK).
- 2017 *The geomorphology of humanity*. [The 33<sup>rd</sup> Romanian Symposium of Geomorphology](#), Iasi (Romania). **Keynote talk**

- 2016 *Roads and agricultural terraces in the mountain areas of the world: their geomorphological and hydrological role.* [The 33rd International Geographical Congress](#), Beijing (P.R. China). **Keynote talk**
- 2016 *Hillslope Processes in Anthropogenic Landscapes.* [AAG Annual Meeting 2016](#), San Francisco (USA).
- 2015 *High-resolution topography for understanding Earth surface processes: Opportunities and challenges.* [ISPRS Geospatial Week 2015](#), Montpellier (FR). **Keynote talk**
- 2015 *Geomorphology & Anthropocene.* [RGS-IBG Annual International Conference](#), Exeter (UK).
- 2012 *Opportunities and challenges from high-resolution topography for understanding earth surface processes.* [AOGS – AGU \(WPGM\) Joint Assembly 2012](#), Singapore.

#### *Accademie internazionali, nazionali e istituti di ricerca di alta qualificazione (tot.23)*

- 2021 *Surface ponding in lowland landscapes – monitoring and management, towards sustainable agriculture.* [Beijing Normal University](#) (P.R. China). (host: College of Water Sciences)
- 2021 *Forest and agricultural roads – mass movements, drainage systems, monitoring and sustainable planning.* [Beijing Normal University](#) (P.R. China). (host: College of Water Sciences)
- 2021 *Steep-Slope Agricultural Landscapes: Threats, Monitoring, Sustainable Management.* [University of Twente](#) (NL). (host: Dept. of Earth Systems Analysis)
- 2021 *The Geomorphology of Life.* [Università di Perugia](#) (Italy). (host: Dip. di Fisica e Geologia)
- 2020 *Digital terrain analysis for soil and water conservation.* [Dalian University and Technology](#) (P.R. China). (host: Xiangzhou Xu)
- 2020 *Monitoring and sustainable management of steep-slope agricultural landscapes: the case study of Italy.* [Beijing Normal University](#) (P.R. China). (host: Chengzhong Pan)
- 2019 *Landscapes in the Anthropocene.* [Tongji University](#) (P.R. China). (host: Chen Kangli)
- 2019 *Humans and the Earth's Surface.* [Princeton University](#) (USA). (host: Amilcare Porporato)
- 2019 *High-resolution topography for understanding Earth surface processes: opportunities and challenges.* [Dalian University and Technology](#) (P.R. China). (host: Xiangzhou Xu)
- 2017 *The Topographic Signature of Humanity.* [Beijing Normal University](#) (P.R. China). (host: Wenwu Zhao)
- 2016 *Earth surface processes in anthropogenic landscapes.* [Guangzhou University](#) (P.R. China). (host: Wu Zhifeng)
- 2015 *High-resolution topography for understanding Earth surface processes: opportunities and challenges.* [Innsbruck Summer School of Alpine Research 2015](#). (host: [University of Innsbruck](#), Faculty of Geo- and Atmospheric Sciences & International Society for Photogrammetry and Remote Sensing - ISPRS)
- 2015 *Anthropogenic Landscapes: critical issues and future challenges for Earth Science and Society.* [Massey University](#) (New Zealand). (host: Ian Fuller)
- 2014 *Anthropogenic Landscapes: critical issues and future challenges for Earth Science and Society.* Institute of Mountain Hazards and Environment, [Chinese Academy of Sciences](#), Chengdu. (host: Peng Cui)
- 2013 *High-resolution topography: the next chapter for the Earth science.* [China University of Geosciences](#), Beijing. (host: Chen Jianping)
- 2012 *Natural and Engineered Landscapes: new challenges from LiDAR for understanding Earth Surface Processes in the Anthropocene.* [National Cheng Kung University](#), Department of Earth Science, Tainan (Taiwan). (host: Ching-Weei Lin)
- 2011 *New opportunity and future challenges from high-resolution topography for the analysis of Earth Surface Processes.* [Central Geological Survey, Taipei](#) (Taiwan). (host: Chao-Tsiung Lin)
- 2011 *New opportunity and future challenges from high-resolution topography for the analysis of Earth Surface Processes.* [National Cheng Kung University](#), Department of Earth Science, Tainan (Taiwan). (host: Ching-Weei Lin)
- 2011 *New opportunity and future challenges from high-resolution topography for the analysis of Earth Surface Processes.* [AgroParisTech](#), Montpellier, France. (host: Jean-Stephane Bailly)
- 2011 *New opportunities but also challenges from high-resolution topography.* [École Polytechnique Fédérale de Lausanne EPFL](#), Switzerland. (host: Andrea Rinaldo)
- 2010 *High-resolution topography: new opportunities, issues and challenge in the Earth Science.* Institute of Inland Waters, [Hellenic Centre for Marine Research](#), Greece. (host: Emmanouil Anagnostou)
- 2010 *Semi-automatic methods for geomorphic features extraction: new opportunities from high-resolution topography.* [CNR-IRPI](#). Perugia, Italy. (host: Fausto Guzzetti)
- 2008 *High-resolution topography: new opportunities, issues, and future trends.* Civil Engineering Dept. and St. Anthony Falls Laboratory, [University of Minnesota](#), Minneapolis, USA. (host: Efi Foufoula-Georgiou)

## PRODUZIONE SCIENTIFICA (SINTESI PUBBLICAZIONI)

Paolo Tarolli è autore dal 2006 (anno conseguimento dottorato) di più di 150 articoli indicizzati Scopus (> 75% degli articoli con primo o ultimo nome o corresponding author) pubblicati (circa il 59% pubblicati negli ultimi 5 anni) o in stampa su riviste internazionali (4 review su invito), proceedings e libri, con i seguenti indici bibliometrici (aggiornato 17 gennaio 2022): **Google Scholar (h-index 47, tot. citazioni 7409, numero di articoli con 200+ citazioni 8, con 300+ citazioni 4, con 400+ citazioni 1)** | **Scopus (h-index 40, tot. citazioni 5407; in media 8.8 articoli/anno e 318 citazioni/anno, negli ultimi 5 anni 2017-2021, 17 articoli/anno e 749 citazioni/anno)**. Ha pubblicato 11 articoli su riviste divulgative nazionali, 18 articoli in libri, 26 articoli in atti di convegni, 198 contributi (11 su invito) a congressi internazionali/nazionali (63 presentazioni orali, 20 virtuali online, 115 poster). Ha editato 2 libri per Elsevier e Springer.

Nel 2020 e 2021 è stato inserito nella lista dei **100,000 top world's most cited scientists**: posizione **n°87939** per tutte le discipline nell'intera carriera, posizione **n°17402** per tutte le discipline e **n°139 (top 0.27%)** per la categoria *'geological & geomatics engineering'* nell'anno 2020 (autocitazioni escluse); classifica di Elsevier BV e Stanford University (fonte Scopus): <https://doi.org/10.17632/btchxktzyw.3>; <https://doi.org/10.17632/btchxktzyw.2>

## PUBBLICAZIONI

\*corresponding author

### Articoli pubblicati su riviste internazionali peer-reviewed

#### 2022

1. Wang, W., Pijl, A., **Tarolli\*, P.** (2022). Future climate-zone shifts are threatening steep-slope agriculture. *Nature Food*, 3, 193–196, ISSN: 2662-1355, doi:10.1038/s43016-021-00454-y. **\*impatto sugli organi di stampa/media\***
2. Straffelini\*, E., Pijl, A., Otto, S., Marchesini, E., Pitacco, A., **Tarolli, P.** (2022). A high-resolution physical modelling approach to assess runoff and soil erosion in vineyards under different soil managements. *Soil and Tillage Research*, 222, 105418, ISSN: 0167-1987, doi:10.1016/j.still.2022.105418.
3. Luo, J., Wang, N., Zheng\*, Z., Tingxuan, L., He, S., **Tarolli, P.** (2022). Tillage-induced microtopography alters time-dependent intrinsic correlation of runoff and sediment yield. *Soil and Tillage Research*, 221, 105423, ISSN: 0167-1987, doi:10.1016/j.still.2022.105423.
4. Cucchiario\*, S., Carretta, L., Nasta, P., Cazorzi, F., Masin, R., Romano, N., **Tarolli, P.** (2022). Multi-temporal geomorphometric analysis to assess soil erosion under different tillage practices: A methodological case study. *Journal of Agricultural Engineering*, 53, 1279, ISSN: 1974-7071, doi:10.4081/jae.2022.1279.
5. Mauri\*, L., Straffelini, E., **Tarolli, P.** (2022). Multi-temporal modeling of road-induced overland flow alterations in terraced landscape characterized by shallow landslides. *International Soil and Water Conservation Research*, 10, 240–253, ISSN: 2095-6339, doi:10.1016/j.iswcr.2021.07.004. **\*outstanding paper award by WASWAC\***
6. Pijl, A., Wang, W., Straffelini, E., **Tarolli\*, P.** (2022). Soil and water conservation in terraced and non-terraced cultivations: an extensive comparison of 50 vineyards. *Land Degradation & Development*, 33, 596–610, ISSN: 1085-3278, doi:10.1002/ldr.4170.
7. Silvestri\*, S., Capra, V., Cucchiario, S., Pivato, M., **Tarolli, P.** (2022). Tides, Topography, and Seagrass Cover Controls on the Spatial Distribution of *Pinna nobilis* on a Coastal Lagoon Tidal Flat. *Journal of Geophysical Research: Biogeosciences*, 127, e2021JG006667, ISSN: 2169-8953, doi:10.1029/2021JG006667.

#### 2021

8. Rizzi\*, J., Tarquis, A. M., Gobin, A., Semenov, M., Zhao, W., **Tarolli, P.** (2021). Preface: Remote sensing, modelling-based hazard and risk assessment, and management of agro-forested ecosystems. *Natural Hazards and Earth System Sciences*, 21, 3873–3877, ISSN: 1561-8633, doi:10.5194/nhess-21-3873-2021. (Special Issue Editorial)
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## CONVEGNI INTERNAZIONALI

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### Presentazione orale

1. **Tarolli P.** (2021). Earth, Agriculture, and Society: towards sustainable development in the Anthropocene, *International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 (LASOSU2021)*, online, [Dalian] [Invited talk](#)
2. Mauri L., Straffelini E., Cucchiario S., **Tarolli P.** (2021). UAV-SfM 4D mapping of landslides activated in a steep terraced agricultural area. *International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 (LASOSU2021)*, online, [Dalian]
3. Mauri L., Straffelini E., **Tarolli P.** (2021). Multi-temporal modeling of road-induced overland flow alterations in a terraced landscape characterized by shallow landslides. *International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 (LASOSU2021)*, online, [Dalian]
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7. Straffelini E., Pijl A., **Tarolli P.** (2021). Remote sensing and field-based approach in understanding soil erosion mitigation through grass cover in steep vineyards. *International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 (LASOSU2021)*, online, [Dalian]
8. Straffelini E., Cucchiario S., **Tarolli P.** (2021). Surface water ponding in lowland agriculture: a rapid mapping approach using UAV-SfM. *International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 (LASOSU2021)*, online, [Dalian]
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10. Pijl A., Quarella E., Vogel T.A., D'Agostino V., **Tarolli P.** (2021). Understanding the challenge of terrace failure from an aerial vs. a field perspective. *International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 (LASOSU2021)*, online, [Dalian]

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12. Mauri L., Straffelini E., Cucchiario S., **Tarolli P.** (2021). UAV-SfM 4D mapping of landslides activated in a steep terraced agricultural area. *AgEng2021, New Challenges for Agricultural Engineering towards a Digital World*, online, [Evora, Portugal]
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25. Ciprian Margarint, M., Niculita, M., Roder, G., and **Tarolli, P.** (2017) Stakeholder risk perception associated with natural hazards in Iasi County (Romania). *Geophysical Research Abstract*, 19, EGU2017-13302, eISSN: 1607-7962, Vienna [Austria]
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27. **Tarolli, P.** (2016) Roads and agricultural terraces in the mountain areas of the world: their geomorphological and hydrological role. *The 33<sup>rd</sup> International Geographical Congress*, Beijing (P.R. China). *Invited talk - Keynote talk*
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32. **Tarolli, P.** (2015) High-resolution topography for understanding Earth surface processes: Opportunities and challenges. *ISPRS Geospatial Week 2015*, Montpellier (FR). *Invited talk - Keynote talk*
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43. Rinaldo, A., Mutzner, R., Bertuzzo, E., **Tarolli, P.**, Weijs, S., Ceola, S., Tomasic, N., Rodriguez-Iturbe, I., Parlange, M. (2013). Geomorphic Signatures on Brutsaert Base Flow Recession Analysis. *Geophysical Research Abstracts*, 15, EGU2013-5856, eISSN: 1607-7962. [Vienna]
44. **Tarolli, P.** (2012). Opportunities and Challenges from High Resolution Topography for Understanding Earth Surface Processes. Abstract SE101-D5-AM1-Vir3-004 (SE101-A002) presented at AOGS – AGU (WPGM) Joint Assembly 2012. [Singapore] *Presentazione su invito*
45. Sofia, G., Dalla Fontana, G., **Tarolli, P.** (2012). LiDAR and Geomorphic Parameters for Anthropogenic Feature Extraction in Floodplains. Abstract IWG04-D5-AM2-Leo3-003 (IWG04-A007) presented at AOGS – AGU (WPGM) Joint Assembly 2012. [Singapore]
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50. Borga, M., Lagouvardos, K., Llasat, M.C., Mugnai, A., Price, C., **Tarolli, P.** (2010). Integrating lightning information into real-time flash flood forecasting and warning procedures. *Geophysical Research Abstracts*, 12, EGU2010-14035, eISSN: 1607-7962. [Vienna]
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54. Borga, M., **Tarolli, P.**, Dalla Fontana, G., Cazorzi, F. (2007). Impact of forest roads on subsurface flowpaths and shallow landsliding. IUGG XXIV General Assembly, HW3007, 4762, ISBN: 978-88-95852-24-4. [Perugia]
55. **Tarolli, P.**, and Dalla Fontana, G. (2007). Analysis of the headwater basins' morphology by high resolution LiDAR-derived DTM. 5<sup>th</sup> International Symposium on Mobile Mapping Technology. [Padova]
56. **Tarolli, P.**, and Dalla Fontana, G. (2006). Evaluation of LiDAR derived DEM resolution to terrain stability hazard mapping. *Geophysical Research Abstracts*, 8, EGU06-A-03503, eISSN: 1607-7962. [Vienna]

#### Virtual online

1. Cucchiario S., Paliaga G., Fallu D.J., Pears B.R., Walsh K., Zhao P., Van Oost K., Snape L., Lang A., Brown A.G., **Tarolli, P.** (2021). A geomorphometric approach to estimate soil volumes stored in



- agricultural terrace systems, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-1772, <https://doi.org/10.5194/egusphere-egu21-1772>.
2. Straffelini E., Otto S., Pijl A., Marchesini E., Gottardi S., Tormen N., Pitacco A., Tezza L., **Tarolli P.** (2021). The role of inter-row grass cover in steep viticulture: understanding soil erosion combining in-field observation and remote sensing, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-2158, <https://doi.org/10.5194/egusphere-egu21-2158>.
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  4. Wang W., Pijl A., **Tarolli P.** (2021). Steep-slope cultivated landscapes: towards climate-resilient water resources management, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-2358, <https://doi.org/10.5194/egusphere-egu21-2358>.
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  6. Gao L., Xu X., Zhao Y., **Tarolli P.** (2021). Assessment of avalanche hazards using remote sensing in the lower Yellow River, China, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-1000, <https://doi.org/10.5194/egusphere-egu21-1000>.
  7. Junliang Q., Cao B., **Tarolli P.**, Zhang W., Yang X. (2021). Flood monitoring using Sentinel-1 SAR images in Pearl River basin, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-2415, <https://doi.org/10.5194/egusphere-egu21-2415>.
  8. Zhang Q., Wu Z., **Tarolli P.** (2021). The mitigation effect of urban green infrastructure (UGI) on urban waterlogging, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-2514, <https://doi.org/10.5194/egusphere-egu21-2514>.
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## CONVEGNI NAZIONALI

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### *Presentazione orale*

1. Pijl, A., Tosoni, M., Roder, G., Sofia, G., **Tarolli, P.** (2018). Use of Unmanned Aerial Vehicle (UAV) data for the maintenance of terraced landscapes – a case study in Valcamonica (BS, Italy) [paper 165]. XXXVI Convegno Nazionale di Idraulica e Costruzioni Idrauliche. [Ancona]
2. **Tarolli, P.**, Breda, F., Sofia, G., Masin, R., (2017). Drainage channels under pressure from invasive animal species: investigation on the regional and local impact of Coypu (*Myocastor coypus*) damages. *Convegno Nazionale dell'Associazione Italiana di Ingegneria Agraria (AIIA)*. [Bari]
3. Sofia, G., Cao, W, **Tarolli, P.** (2017). Towards understanding links between rural landuse changes and local hydrological response. *Convegno Nazionale dell'Associazione Italiana di Ingegneria Agraria (AIIA)*. [Bari]
4. Prosdocimi, M., Sofia, G., Dalla Fontana, G., **Tarolli, P.** (2013). Land use change in the Veneto floodplain and consequences on minor network drainage system. *AIIA 2013 (X Conference of the Italian Society of Agricultural Engineering)*. [Viterbo]
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6. **Tarolli, P.**, Dalla Fontana, G. (2009). Testing new methodologies for landslide features extraction from high resolution topography. *Geoitalia 2009 (VII Italian Forum of Earth Sciences)*. [Rimini]
7. Cavalli, M., **Tarolli, P.** (2009). Airborne LiDAR as a new tool for fluvial geomorphology. *Geoitalia 2009 (VII Forum Italiano di Scienze della Terra)*. [Rimini]

### *Presentazione poster*

1. **Tarolli, P.**, Mauri, L., Sallustio, L. (2019). A diagnostic framework for mapping and quantifying the geomorphic impact of wild boars. *Convegno Nazionale di medio termine dell'Associazione Italiana di Ingegneria Agraria (AIIA)*. [Matera]
2. **Tarolli, P.**, Righetto, A. (2012). Analisi della relazione area-pendenza: alcuni casi di studio nella Provincia Autonoma di Bolzano. XXXIII Convegno Nazionale di Idraulica e Costruzioni Idrauliche. [Brescia] [Premio miglior poster](#)
3. Sofia, G., **Tarolli, P.**, Cazorzi, F., De Luca, A., Dalla Fontana, G. (2012). Il reticolo di drenaggio minore: caratterizzazione a larga scala di densità di drenaggio e capacità di invaso. XXXIII Convegno Nazionale di Idraulica e Costruzioni Idrauliche. [Brescia]
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Legnaro (PD), 1 Giugno 2022

Paolo Tarolli

Legnaro (PD), 1 Agosto 2022