

简历

个人信息

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 个人主页: <http://www.tesaf.unipd.it/en/paolo-tarolli>



简历摘要

保罗·特罗里是意大利帕多瓦大学的副教授, 主要研究方向是土壤和水资源管理。保罗·特罗里教授是中国地质大学(北京), 美国乔治亚大学, 广州大学, 台湾成功大学, 瑞士洛桑联邦理工学院等几所大学的客座教授, 同时也是欧洲地球科学联盟(EGU) NH6 分会(遥感和灾害)以及 SSS12 分会(土壤科学中的材料和方法)的主席。

保罗教授的主要研究方向是数字地形分析, 人类和土地的关系, 通过高分辨率分析地貌及其形成过程, 自然灾害, 浅层滑坡, 地形学, 水文地貌, 高山和平原的地貌特征提取, 人为景观的人类活动特征提取, 移动应用程序提取激光雷达和结构以及地理信息系统。

保罗·特罗里教授担任了 **Natural Hazards and Earth System Sciences (Copernicus)** 的主编; **Remote Sensing (MDPI)**, **Land Degradation & Development (Wiley)**, **Journal of Mountain Sciences (Springer)** 的副主编; 以及众多学术期刊的编辑委员。

自从 2006 年开始, 保罗·特罗里教授发表了 80 篇文章(2 篇受邀综述, 5 篇特刊述评), 在国际同行评审的期刊上有如下指标: 谷歌学术(h 指数 32, 引用量 3096), 斯高帕斯(h 指数 29, 引用量 2325)。他受邀参加了 20 场高级国际研究机构和国外院校(诸如瑞士洛桑联邦理工学院、巴黎高科农业学院、梅西大学、台湾成功大学、中国地质大学(北京)、中国科学院、因斯布鲁克大学)以及国际会议(IGC, AAG, ISPRS, RGS-IBG, AOGS-AGU)的演讲(其中 3 场专题演讲)。

保罗教授曾担任英国自然环境研究委员会牛顿基金会、美国国家科学基金、瑞士国家科学基金会、荷兰科学研究组织、荷兰科学研究组织、波兰国家科学中心、加拿大自然科学与工程研究委员会、奥地利科学基金以及欧盟委员会等研究项目的评审人。同时他也是欧洲地球科学联盟, 英国地貌组织协会, 美国地球物理学学会, 亚洲大洋洲地球科学学会的成员。

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教育经历

2006	博士，环境流域管理与测绘，帕多瓦大学（意大利）
2002	硕士，水文地质灾害评估与治理，帕多瓦大学（意大利）
2001	本科，森林与环境科学，帕多瓦大学（意大利）

职位

2017 至今	客座教授，乔治亚大学（美国）
2017 至今	客座教授，广州大学（中国）
2015 至今	副教授，帕多瓦大学，土地农林环境学院（意大利）
2013 至今	客座教授，中国地质大学（北京）
2011-2014	助理教授，帕多瓦大学，土地与农林环境学院（意大利）
2011-2013	客座教授，国立成功大学，地球科学系（中国台湾）
2011	客座教授，洛桑联邦理工学院，建筑、土木与环境工程学院（瑞士）
2010	访问学者，国立台湾大学，地理学院（中国台湾）
2010	居里夫人研究院资深研究员，内陆水域研究所与海洋研究中心（希腊）
2009-2013	兼职教授，马尔凯理工大学（意大利）
2008	访问学者，明尼苏达大学，土木工程系和圣安东尼瀑布实验室（美国）
2006 – 2010	助理研究员，帕多瓦大学，土地与农林环境学院（意大利）
2005	访问学者，地球与环境科学学院，新墨西哥科技大学（美国）
2005	助理研究员，帕多瓦大学，土地与农林环境学院（意大利）
2002-2006	访问学者，地球与环境科学学院，新墨西哥科技大学（美国）

外部职位，领导力 & 专业会员

2018 至今	地表过程和社会研究小组负责人 (https://www.linkedin.com/in/earthsurfs/)
2018 至今	意大利农业工程学会副主席
2018	英国自然环境研究委员会牛顿基金会评审人
2016 至今	主席：EGU SSS subdivision SSS12: <i>Material and Methods in Soil Science</i>
2015 至今	主席：EGU NH subdivision NH6: <i>Remote Sensing & Hazards</i>
2015	评估员：PhD committee evaluation panel, EPFL (Switzerland)
2014	评估员：PhD committee evaluation panel, University of Genova

- (Italy)
- 2013 主管：EGU Summer School 2013 “Understanding Earth-Surface Processes in the Alpine Environment from High Resolution Topography”
(<http://intra.tesaf.unipd.it/cms/summeregus2013/>)
- 2013 至今 评审小组成员：U.S. National Science Foundation (NSF), Netherlands Organization for Scientific Research (NWO), Natural Sciences and Engineering Research Council of Canada, Swiss National Science Foundation (SNSF), FWF Austrian Science Fund, EU Commission FP7
- 2011 评估员：PhD committee evaluation panel, Ecole Nationale Supérieure des Mines de Saint-Etienne, Alès (France)
- 2011 评估员：Master of Science committee evaluation panel, EPFL (Switzerland)

奖学金

- 2014 年 中国地质大学合同聘用制杰出学者（中国）
- 2013 年 国立成功大学合同聘用制杰出学者（台湾）
- 2010 年 玛丽居里研究员--内陆水域研究所与海洋研究中心的杰出贡献奖（希腊）

获奖与荣誉

- 2018 Publons 同行评审奖 Geosciences and Environment / Ecology 前百分之一审稿人
- 2018 杰出贡献奖：评审 Total Environment, Land Use Policy, Geomorphology, Environmental Research 等研究领域
- 2017 杰出编辑 Journal of Mountain Science, Springer
- 2017 杰出贡献奖：journal Adv. Wat. Res., J. of Hydrology
- 2017 Publons 同行评审奖 Environmental Science, Earth and Planetary Science 前百分之一审稿人
- 2016 杰出审稿人 (journal Catena, Elsevier)
- 2015 杰出审稿人 (journal Geomorphology, Elsevier)
- 2015 杰出审稿人 (journal Earth-Science Reviews, Elsevier)
- 2012 最佳海报奖：XXXIII 意大利水力学与液压结构会议
- 2011 编者引用：WRR 优秀审稿员
- 2010 杰出审稿人 (Journal of Hydrologic Engineering, ASCE)
- 2010 最佳海报奖：XXXII 意大利水力学与液压结构会议

指导的学生

博士后: Giulia Sofia (2013-2017), 帕多瓦大学

博士:

帕多瓦大学: 张棋斐 (2018-2022), Anton Pijil (2017-2021), 曹文芳 (2016-2020), G. Roder (2015-2019), M. Prosdocimi (2014-2017)

国际合作学生: Kamila Pawłuszek (2017-2020) 弗罗茨瓦夫大学环境与生命科学学院; 向杰 (2015-2018) 中国地质大学北京部; 王璉 (2014-2018) 中国科学院; 郑永心 (2014-2019) 国立成功大学; 李珂 (2013-2015), 中国地质大学北京部

硕士:

就读于帕多瓦大学的学生: Eugenio Straffelini (2018), Edoardo Quarella (2018), Gaetano Imperatore (2018), Luca Mauri (2018), Michele Tosoni (2017), Loris Torresani (2017), Francesca Breda (2017), Elena Feo (2017), Manuel Stefani (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), Giulia Roder (2014), Valeria Contessa (2014), Francesca Savio (2013), Massimo Prosdocimi (2013)

就读于马尔凯理工大学的学生: Manuela Mancini (2012) and Francesca Brutti (2012)

教学活动

2018 至今	水资源管理, 乔治亚大学&帕多瓦大学 (48 小时, 6 学分)
2017	基于遥感和地理信息系统分析地形地貌过程, 广州大学, (16 小时)
2016	人文景观的数字地形分析, 欧洲地球科学联盟-EGU 大会 (1.5 小时)
2014 至今	水土资源管理, 帕多瓦大学 (48 学时, 6 学分)
2014 至今	农业 GIS 技术应用, 帕多瓦大学 (32 学时, 4 学分)
2014 至今	数字地形分析, 中国地质大学 (北京) (32 学时, 2 学分)
2013	数字地貌和统计分析, 中国地质大学 (北京) (32 学时, 2 学分)
2013	数字地形分析, 台湾成功大学 (50 学时, 3 学分)
2011 至今	流域综合管理, 帕多瓦大学 (48 学时, 6 学分)

学术会议

2018	召集人&主席: session NH6.1. Application of remote sensing and Earth-observation data in natural hazard and risk studies (EGU General Assembly)
2018	召集人&主席: session SSS2.3. Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (EGU General Assembly)

- 2018 召集人&主席: session HS2.2.3 Lowlands: A hydrologic challenge in the global environmental change era (EGU General Assembly)
- 2017 召集人&主席: session HS2.2.3 Lowlands: A hydrologic challenge in the global environmental change era (EGU General Assembly)
- 2017 召集人&主席: session SSS2.16/GM7.7/HS11. Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (co-organized) (EGU General Assembly)
- 2017 召集人&主席: session NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20 Application of remote sensing and Earth-observation data in natural hazard and risk studies (EGU General Assembly)
- 2017 召集人&主席: session NH3.12 Landslide and Landslide Susceptibility Interactions with Transport Lines (EGU General Assembly)
- 2017 召集人 & 主席: session SSS10.8/BG9.6/HS9.11 Soil Erosion, hydrological processes and biological degradation in worldwide vineyards (EGU General Assembly)
- 2016 召集人&主席: session SSS2.10/GM6.8/HS11.29/NH3.19 Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (EGU General Assembly)
- 2015 召集人&主席: session GM4.1 Human-Landscape interaction in the Anthropocene (EGU General Assembly)
- 2015 召集人&主席: session SSS2.5/GM6.6/HS12.3 Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (EGU General Assembly)
- 2014 召集人 & 主席: session GM4.1/HS9.12/SSS9.18 Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (EGU General Assembly)
- 2014 联合召集人: session GM2.1 Digital Landscapes: Insights into geomorphological processes from quantitative interrogation and use (EGU General Assembly)
- 2013 召集人 & 主席: session GM4.2/SSS6.12 Landscape in the Anthropocene: state of the art and future directions (EGU General Assembly)
- 2013 联合召集人: session GM2.1 Digital Landscapes: Insights into geomorphological processes from high-resolution topography, quantitative interrogation and geomorphological mapping (EGU General Assembly)

- 2012 联合召集人及主席: session GM2.1 Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes (EGU General Assembly)
- 2011 联合召集人&主席: session GM2.2/NH10.3/PS10.2 Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes (EGU General Assembly)
- 2007 召集人&主席: Session H43E/H51L/H52E Remotely Sensed DTMs for Hydrogeomorphic Applications (AGU Fall Meeting)

合作机构

- 2017-2022 梅西大学（新西兰）、林肯大学（英国）和帕多瓦大学双边合作的主要贡献者
- 2017-2022 中国地质大学和帕多瓦大学双边合作的主要贡献者
- 2015 至今 科研质量评估委员会会员（土地，环境，农业和森林学院，帕多瓦大学）
- 2012 至今 国际委员会会员（土地，环境，农业和森林学院，帕多瓦大学）

学术期刊编辑

- 2018 至今 执行编辑: *NHESS* (Copernicus)
- 2018 至今 副编辑: *Land Degradation & Development* (Wiley)
- 2017 至今 副编辑及顾问委员会成员: *Remote Sensing* (MDPI)
- 2013 至今 副编辑: *Journal of Mountain Science* (Springer)
- 编委会成员: *iScience* (Cell Press), *Earth Surface Processes and Landforms* (Wiley), *Anthropocene* (Elsevier), *Heliyon* (Elsevier), *Quaternary* (MDPI).

学术期刊审稿人

- 2006 至今 审稿人（学术期刊）: *Remote Sensing*, *Geomorphology*, *Water Resources Research*, *Earth Surface Processes and Landforms*, *Journal of Hydrology*, *Journal of Hydrologic Engineering*, *HESS*, *Land Degradation and Development*, *International Journal of GIS*, *Journal of Mountain Science*, *Journal of Geophysical Research*, *Geophysical Research Letters*, *Advance in Water Resources*, *Hydrological Processes*, *NHESS*, *Catena*, *Geoderma*, *Land Use Policy*, *IEEE GRL*, *Remote Sensing of Environment*, *Natural Hazards*, *Earth Science Review*, *PloSOne*, *Climate Change*, *Science*.

学会会员

2012 至今	意大利农业工程学会
2012 至今	亚洲大洋洲地球科学学会
2011 至今	英国地质地貌学会
2006 至今	欧洲地球科学联盟
2005 至今	美国地球物理联盟
2005-2013 年	美国地质学会

科研项目

2018 – 2023	H2020 ERC-ADG TerrACE (<u>PI – WP1</u>)
2018 – 2021	Vineyard Terraced landscapes: understanding the Environmental constraints to improve sustainable managements – ViTe (<u>PI</u>)
2016 – 2018	HighLandDEM – ENVIMED (<u>PI - WP2</u>)
2015 – 2017	Land-use change effect on Earth surface processes in agricultural landscapes (<u>PI</u>)
2012 – 2014	Artificial drainage system in agricultural floodplains (<u>PI</u>)
2013 – 2016	Earth Surface Processes analysis with high-resolution digital elevation models (<u>PI</u>)
2010 – 2014	Research Coordinator for a Larger Europe (European Commission's Sixth Framework Programme) (<u>team member</u>)
2008 – 2011	INTERREG IV A Austria-Italy (Project Nr. 1381 – 277), Minimal standards for compilation of danger maps like landslides and rock fall as a tool for disaster prevention (<u>co-PI</u>)
2006 – 2008	UE Flood Risk Analysis and Management Methodologies (FLOODSite CT-2004-5420), Sixth EU's Framework Programme for Research and Technological Development (<u>team member</u>)
2006	INTERREG III A Italy-Slovenia F.R.A.N.E. project, European programme for cross border cooperation (<u>co-PI</u>)
2006	HKKH Partnership: international project in collaboration with Ev-K2-CNR, ICIMOD, IUCN, and CESVI (<u>PI</u>)

主要合作者

Erle C. Ellis	人类纪的讨论, 马里兰大学, 美国
Federico Preti	农业梯田, 佛罗伦萨大学, 意大利
Ian Fuller	用激光雷达进行人为冲积物分析, 梅西大学, 新西兰
Jean-Stéphane Bailly	用遥感进行农业景观分析, 巴黎高科农业大学, 法国
陈建平	无人机监控露天采矿, 中国地质大学(北京), 中国
Mark Macklin	人为景观的洪水, 林肯大学, 英国
Marco Cavalli	用激光雷达进行地貌形成成分, CNR-IRPI 帕多瓦, 意大利

Nunzio Romano 农业的表面径流, 那不勒斯菲里德里克第二大学,意大利
吴志峰 人类活动导致的土地变化对环境的影响,广州大学,中国

受邀演讲

国际会议

- 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 33rd 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.*

国际研究机构和大学

- 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, R.O.C.). (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)
- 2005 *Improving methods for mapping terrain stability with high-resolution LIDAR-derived elevation data*. EES Dept., New Mexico Tech, USA. (host: Enrique Vivoni)

发表文章概述

特罗里教授自从 2006 年博士开始,他发表了 78 篇文章(2 篇受邀综述, 5 篇特刊述评),在国际同行评审的期刊上有如下指标:谷歌学术(h 指数 32, 引用量 3096), 斯高帕斯(h 指数 29, 引用量 2325)。此外,他还在国际同行评审的 ISI 期刊上发表了 1 篇视频评论和 3 篇书评,在全国杂志上发表了 9 篇论文, 2 篇论文收录在 Encyclopaedia 中, 12 篇论文在 ISBN 收录的书中, 20 篇文章在被 ISBN 收录的会议集中, 并且在国内国际会议上做了 145 次演讲(3 个受邀主题演讲, 4 个受邀演讲, 41 个口头演讲和 104 个海报展示)

发表文章情况

正在审稿中或准备中

1. **Tarolli, P.**, Cao, W., Sofia, G., Ellis, EC. From Features to Fingerprints: a Framework for Observing and Interpreting Anthropogenic Geomorphology.
2. **Tarolli, P.**, Sofia, G. Potential responses to sediment dynamics in terraced agricultural landscapes: high-resolution topography to support rural development planning.
3. Cao, W., Sofia, G., **Tarolli, P.** Geomorphometric characterization of natural and anthropogenic land cover.
4. Pijl, A., Tosoni, M., Roder, G., Sofia, G., **Tarolli, P.** Vineyard terrace monitoring and drainage design using UAV-based high-resolution topographic data.
5. Pijl, A., Barneveld, P., Mauri, L., Borsato, E., Grigolato, S., **Tarolli, P.** Estimating the impact of mechanization on soil loss in vineyards terraced landscapes.

同行审阅杂志

2019

1. **Tarolli***, P., Cavalli, M., Masin, R., (2019). High-resolution morphologic characterization of conservation agriculture. *Catena*, 172, 846–856, doi: 10.1016/j.catena.2018.08.026.
2. Viero*, D.P., Roder, G., Matticchio, B., Defina, A., **Tarolli, P** (2019). Floods, landscape modifications and population dynamics in anthropogenic coastal lowlands: The Polesine (northern Italy) case study. *Science of the Total Environment*, 651, 1435–1450, doi:10.1016/j.scitotenv.2018.09.121.

2018

3. **Tarolli***, P (2018). Agricultural Terraces Special Issue Preface. *Land Degradation and Development*, 29, 3544–3548, doi:10.1002/ldr.3129.
4. Pawłuszek*, K., Borkowski, A., **Tarolli, P.** (2018). Sensitivity analysis of automatic landslide mapping: numerical experiments towards the best solution. *Landslides*, doi: 10.1007/s10346-018-0986-0.
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