CURRICULUM VITÆ DOCENTE: Prof. Michael Maerker

A. Informazioni personali

2013	Abilitazione nazionale in Geografia fisica e geomorfologia (04/A3; Geo04)
2013	Abilitazione nazionale in Chimica Agraria, Genetica Agraria e Pedologia (07/E1)
2001	PhD (Dr.rer.nat) Facoltà di Chimica e Scienze della Terra della Università Friedrich-Schiller di Jena, Germania con la tesi: "Regional Erosion Modeling using the Erosion Response Units Concept (ERU) in two River Catchments in southern Africa."
1996	M.Sc. in Geografia Fisica con specializzazioni in Ecologia e conservazione ambientale, Friedrich-Wilhelms-Università di Bonn, Germania.

B. Ambiti e filoni di ricerca

Relazioni suolo-paesaggio, processi di erosione e movimenti di massa, evoluzione del paesaggio, modellistica stocastica, idrologia del suolo, geoarcheologia, telerilevamento e GIS.

C. Pubblicazioni

Numero totale delle pubblicazioni:
> 100
44 pubblicazioni in giornali internazionali con impact factor
749 citazioni in WOS
17,02 citazioni medie per articolo
h-index: 12 (WOS)

Elenco delle pubblicazioni più recenti (ultimi 5 anni)/significative:

Angileri, S.A., Conoscenti, C., Hochschild, V., Märker, M., Rotigliano, E., Agnesi, V. (2016): Water erosion susceptibility mapping by applying stochastic gradient treeboost to the imera Meridionale River basin (Sicily, Italy), *Geomorphology* (2016), doi: 10.1016/j.geomorph.2016.03.018.

Märker M., Quénéhervé G., BachoferF. & S. Mori (2015): A Simple DEM Assessment Procedure for Gully Systems Analysis in the Lake Manyara Area, Northern Tanzania". Natural Hazards. DOI: 10.1007/s11069-015-1855-y

Lombardo L., Cama M., Conoscenti C., Märker M., & Rotigliano E. (2015): Binary logistic regression versus stochastic gradient boosted decision trees in assessing landslide susceptibility for multiple-occurring landslide events: application to the 2009 storm event in Messina (Sicily, southern Italy). Natural Hazards. DOI: 10.1007/s11069-015-1915-3.

Bachofer F., Quénéhervé G., Hochschild V. & M. Märker (2015): Multisensoral Topsoil Mapping in the Semiarid Lake Manyara Region, Northern Tanzania. Remote Sensing 7(8), 9563-9586.

Kandel A.W., Bolus M., Bretzke K., Bruch A.A., Haidle M.N., Hertler, C. & Märker, M. (2015): Increasing Behavioral Flexibility? An Integrative Macro-Scale Approach to Understanding the Middle Stone Age of Southern Africa. Journal of Archaeological Method and Theory. DOI: 10.1007/s10816-015-9254-y.

Quénéhervé G., Bachofer F. & M. Märker (2015): Experimental Assessment of Runoff Generation Processes on Hillslope Scale in a Semiarid Region in Northern Tanzania. Geografia Fisica e Dinamica Quaternaria. 38 (1) , 55-66.

Bachofer, F., Quénéhervé, G., Märker, M. & Hochschild V. (2015): Comparison of SVM and Boosted Regression Trees for the Delineation of Lacustrine Sediments using Multispectral ASTER Data and Topographic Indices in the Lake Manyara Basin. Photogrammetrie, Fernerkundung und Geoinformation. 1, 81–94.

Flores E., Quénéhervé G., Bachofer F.,Shahzad F. & M. Märker (2015):Morpho-tectonic Interpretation of the Makuyuni Catchment in Northern Tanzania using DEM and SAR Data. Geomorphology, 248, 427-439. DOI 10.1016/j.geomorph.2015.07.049.

Zakerinejad, R. & Märker, M. (2015): An integrated assessment of soil erosion dynamics with special emphasis on gully erosion in the Mazayjan basin in the Southwest of Iran. Natural Hazards. DOI: 10.1007/s11069-015-1700-3

Vogel, S., Märker, M., Hölzmann, P., Rellini, I., Steinhübel, L., Robinson, M., Kastenmayer, P., Esposito, D., Imperatore, C. & Seiler, F. & (2015): From a stratigraphic sequence to a landscape evolution model: Late Pleistocene and Holocene volcanism, soil formation and land use in the shade of Mount Vesuvius (Italy). DOI: 10.1016/j.quaint.2015.02.033

Borrelli, P., Märker M. & B. Schütt (2015): Modelling Post-Tree-Harvesting soil erosion and sediment deposition potential in the Turano river basin (Italian central Apennine). Land Degradation and Development. 26 (4), pp. 356-366. DOI: 10.1002/ldr.2214

Conoscenti C., Agnesi V., Angileri S., Cappadonia C., Rotigliano E. & M. Märker (2014). A GIS-based approach

for gully erosion susceptibility modelling: A test in Sicily, Italy. Environmental Earth Sciences, 70 (3), pp. 1179-1195. DOI 10.1007/s12665-012-2205-y.

Lombardo, L., Cama, M., Märker M., Rotigliano E. (2014): A test of transferability for landslides susceptibility models under extreme climatic events: application to the Messina 2009 disaster. Natural Hazards 74 (3)1951-1989. DOI 10.1007/s11069-014-1285-2

Borrelli, P. Märker, M. Panagos, P. & B. Schütt (2014): Modeling soil erosion and river sediment yield for an intermountain drainage basin of the Central Apennines, Italy. Catena 114 (2014) 45–58

Bachofer F., Queneherve G. & Märker M. (2014): The delineation of paleo-shorelines in the Lake Manyara Basin using TerraSAR-X data. Remote Sens. ,6(3), 2195-2212. DOI:10.3390/rs6032195.

Zakerinejad, R. & Märker, M. (2014): Prediction of Gully Erosion Susceptibilities using detailed Terrain Analysis and Maximum Entropy Modeling: A case study in the Mazayejan Plain, Southwest Iran: GEOGRAFIA FISICA E DINAMICA QUATERNARIA, 37 (1), 67-76. DOI: 10.4461/GFDQ.2014.37.7

Soto-Bauerle, M.V., Märker, M., Rodolfi, G. & S.A. Sepúlveda (2014): Assessment of Morphodynamics triggered by Palaeolandscape features in the Tongoy Bay, Coquimbo Region, Central Chile. Accepted by GEOGRAFIA FISICA E DINAMICA QUATERNARIA, 37 (1), 51-66. DOI: 10.4461/GFDQ.2014.37.6

Vogel, S. & Märker, M. (2014): Analysis of Post-Burial Soil Developments of Pre-AD 79 Roman Paleosols near Pompeii (Italy). Open Journal of Soil Science DOI: 10.4236/ojss.2014.410035

Vogel, S. & Märker, M. (2013): Modeling the spatial distribution of AD 79 pumice fallout and pyroclastic density current and derived deposits of Somma-Vesuvius (Campania, Italy) integrating primary deposition and secondary redistribution. Bulletin of Volcanology 75: 778.

Vorpahl, P., Dislich, C., Elsenbeer, H., Märker, M. & B.Schröder (2013): Biotic controls on shallow translational landslides (2013) Earth Surface Processes and Landforms, 38 (2), pp. 198-212. DOI: 10.1002/esp.3320

Borrelli, P. Märker, M. & B. Schütt (2013): Modelling post-tree-harvesting soil erosion and sediment deposition potential in the Turano River Basin (Italian Central Apennine). Land Degradation & Development. DOI: 10.1002/ldr.2214

Märker, M., Dangel, F. Soto Bäuerle, V. & G. Rodolfi (2012): Assessment of natural hazards and Vulnerability in the Rio Copiapó catchment: A case study in the ungauged Quebrada Cinchado Catchment. Investigaciones Geográficas Chile, 44:17-28.

Märker, M., Pelacani, S. & B. Schröder (2011): A functional entity approach to predict soil erosion processes in a small Plio-Pleistocene Mediterranean catchment in Northern Chianti, Italy . GEOMORPHOLOGY, vol. 125 (4), pp. 530-540, ISSN:0169-555X

D. Esperienze didattiche

Corsi e lezioni di: pedologia, GIS, geomorfologia, modellistica di processi di erosione e movimenti di massa, modelli stocastici, idrologia del suolo e scorrimento superficiale, geoarcheologia
2003-2008 Institute for Geoecology, University of Potsdam, Germany
2005-2016 Institute for Soil Science and Plant Nutrition of the University of Florence, Italy
2008-2016 Institute for Geography, University of Tübingen, Germany

E. Eventuali incarichi istituzionali all'interno degli organi di governo centrali e periferici dell'Ateneo

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F. Altre informazioni

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