

Curriculum Vitae et Studiorum
of
Professor Giorgio BAIAMONTE
(updated Nov 25, 2019)

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1. Personal data and educational training

Place of Birth: Palermo (Italy); Date of Birth: January 27, 1966

Marital Status: Married

Nationality: Italian

In 1991, he achieved the “laurea 110/110 cum laude” in Civil Hydraulic Engineering at the University of Palermo. Thesis Title: "Distribuzione di velocità e legge di resistenza per una corrente in moto in un alveo granulare a fondo fisso. Ricerca sperimentale". Advisor: Prof. Ing. Mario Santoro.

In 1991, he passed the qualification test for being a professional Engineer, and he is registered as professional engineer in “Albo degli Ingegneri della Provincia di Palermo” from 24.02.92 (No. 4759).

Military obligation fulfilled (Conscientious objector, matr. 033660112430), from 17.3.1992 to 16.3.1993.

2. Employment

Area CUN: Area 07 - SCIENZE AGRARIE E VETERINARIE (AGRICULTURAL AND VETERINARY SCIENCES)

Competition Sector: 07/C1 - Ingegneria Agraria, Forestale e dei Biosistemi (Water Resources Management and Bio-system Engineering)

Academic field: AGR/08 - Idraulica agraria e sistemazioni idraulico-forestali (Hydraulic and Agricultural and Forest Landscape Preservation and Rehabilitation)

Position: Associate Professor

Length of service: 03/01/2005

Place of employment: University of PALERMO

Affiliation: Department of Agricultural, Food and Forest Sciences (SAAF)

3. Previous position at the same University

Period	Position	University
01/11/1995	Researcher	University of PALERMO
03/01/2005	Associate Professor	University of PALERMO

4. Research areas and activity

From 1991, he has been carrying out research activity at the Hydraulic section of the Engineer and Agro-Forest Technology Department (ITAF), today Department of Agricultural, Food And Forest Sciences (SAAF) of the University of Palermo.

Research activity, both theoretical and experimental, involves: soil erosion, soil hydrology, use of saline-sodic water in agriculture, velocity profiles and flow resistance law in open channel, surface hydrology at hillslope and basin scale, statistical distribution of inter-arrival times, clustering of rainfall and persistence of dry spells and energy saving and microirrigation units design.

He is author of 103 publications numbered in the attached list (see. point 22. Complete list of scientific publications) and subdivided in i) deposited manuscripts (according to Decreto Legislativo Luogotenenziale 31.08.1945 n. 660) and Abstracts of National and International presentations (*n. 25*), ii) Conference Papers (*n. 16*), iii), Non-ISI Journal Articles (*n. 20*) and iv) ISI Journal Articles (*n. 42*). In the aforementioned publication list are also reported *n. 3* manuscript submitted to ISI Journals.

5. Co-author presenting at Conferences and Workshops

Baiamonte G., Crescimanno G., Provenzano G.: Fenomeni di contrazione dei terreni argillosi e stima dei parametri idraulici. Symposium of the GRUppo Studi Irrigazione (Irrigation studies Group), Roma, Italy, January 12-13, 1999.

from 12-01-1999 to 13-01-1999

Agnese C., Baiamonte G., Bagarello V., Corrao C., Crescimanno G., D'Asaro F., Di Stefano C., Ferro V., Giordano G., Iovino M., Minacapilli M., Provenzano G., Pumo D.: Valutazione e mitigazione della desertificazione in Sicilia. Congress on "Valutazione e mitigazione della desertificazione in Sicilia", Palermo, Italy, March 13, 2003.

from 13-03-2003 to 13-03-2003

Baiamonte G, Di Piazza G.V, Ferro V: Il misuratore di portata a cilindri (BF): Taratura di laboratorio e verifica di campo. Congress on "L'Acqua è una scienza. Riqualificazione ambientale dei corsi d'acqua", Giardini Naxos (ME), Italy, December 2, 2005.

from 02-12-2005 to 02-12-2005

Agnese C, Baiamonte G, D'Asaro F.: Distribuzione di probabilità della portata di piena a scala di versante generata da deflusso Hortoniano. Congress on "Ricerca ed innovazione nell'idraulica agraria e nelle sistemazioni idraulico-forestali", Milano, Italy, March 27-28, 2007.

from 27-03-2007 to 28-03-2007

Agnese C, Baiamonte G, Iovino M.: Coupling overland and subsurface flow model at hillslope scale. "10th International Drainage Workshop on Agricultural Drainage and Environment", Helsinki, Finland | Tallinn, Estonia, July 6 – 11, 2008.

from 06-07-2008 to 11-07-2008

Agnese C., Baiamonte G., Bevilacqua I., Cammalleri C., Cat Berro D., Ferraris S., Mercalli L.: Trend of inter-arrival times of rainfall events for Italian Sub-Alpine and Mediterranean areas. Congress of the "European Meteorological Society (EMS) Annual Meeting", Berlin, September 12 – 16, 2011.

from 12-09-2011 to 16-09-2011

Baiamonte G, Conte P, Crescimanno G, De Pasquale C, Marsala V: Assessing the influence of different biochar fractions on soil structure and soil water retention: laboratory investigation on a Sicilian soil. "4th International Congress Eurosoil", Fiera del Levante, Bari, Italy, July 2 – 6, 2012.

from 02-07-2012 to 06-07-2012

D'Asaro F., Grillone G., Baiamonte G.: Comparison between curve number empirical values and curve number obtained by handbook tables at basin scale in Sicily, Italy. "International Conference

of Agricultural Engineering, CIGR-Ageng2012. Agriculture & Engineering for a Healthier Life, Valencia Conference Centre, Spain, July 8 -12, 2012.

from 08-07-2012 to 12-07-2012

Baiamonte G., D'Asaro F., Grillone G.: Empirical methods to determine average annual runoff coefficient. "International Conference of Agricultural Engineering, CIGR-Ageng2012. Agriculture & Engineering for a Healthier Life, Valencia Conference Centre, Spain, July 8 - 12, 2012.

from 08-07-2012 to 12-07-2012

Ferraris S., Baiamonte G., Cammalleri C., Agnese C., Cat Berro D., Mercalli L.: Spatial variability of dry spells duration statistical distributions. "Trending Now: Water", 7th International Scientific Conference on the Global Water and Energy Cycle (GEWEX)", The Hague, The Netherlands, July 14 – 17, 2014.

from 14-07-2014 to 17-07-2014

Ferraris S., Agnese C., Cammalleri C., Baiamonte G., Cat Berro D., Mercalli L., Canone D., Previati M.: Applying a probabilistic model of rainfall and snow days occurrence to daily series recorded in NW Italy. "European Geosciences Union, General Assembly 2014". Vienna, Austria, April 27 – May 2, 2014.

from 27-04-2014 to 02-05-2014

Ferraris S., Agnese C., Baiamonte G., Canone D., Previati M., Cat Berro D., Mercalli L.: Trends of some high quantiles of average and extremes inter-arrival times and rainfall depths at daily scale for an Italian Sub-Alpine area. "European Geosciences Union, General Assembly 2015". Vienna, Austria, April 12 – 17, 2015.

from 12-04-2015 to 17-04-2015

Ferraris S., Agnese C., Baiamonte G., Cat Berro D., Mercalli L.: Modelling wet and dry spells for daily rainfall data series: an application to North-West Italy. "European Geosciences Union, General Assembly 2016", Vienna, Austria, April 17 -22, 2016.

from 17-04-2016 to 22-04-2016

Baiamonte G., Calvo R., D'Asaro F. Processi di infiltrazione in un mezzo altamente poroso: misure sperimentali e impiego di un modello semplificato a base fisica. Congress on "Attualità dell'Idraulica

Agraria e delle Sistemazioni Idraulico-Forestali al cambiare dei tempi". Palermo, Italy, May 4 – 5, 2017 - Aula Magna "G. Ballatore" – Dipartimento di Scienze Agrarie, Alimentari e Forestali.
from 4-5-2017 to 5-5-2017

Crescimanno, G. Baiamonte, C. De Pasquale: "Influence of biochar on the physical and structural properties of three differently textured soils". Symposium in honour of Prof. Dr. Johan Bouma, "Festschrift symposium" to celebrate the career of Johan Bouma, Wageningen, Netherlands, September 20, 2018. G.
from 20-9-2018 to 20-9-2018

6. Speaker presentations at Italian Conferences

AIGR Congress on "Sviluppi recenti delle ricerche sull'erosione e sul suo controllo". Bari, Italy, February 17 - 18, 1994. Bagarello V., Baiamonte G., Ferro V., Giordano G.: "Contributo alla valutazione dei fattori elementari dell'erosione negli studi a scala di bacino".
from 17-02-1994 to 18-02-1994

"XXVI Convegno di Idraulica e Costruzioni Idrauliche" (XXVI Congress of Hydraulics and Hydraulic Structures). Catania, Italy, September 9 - 12, 1998. Agnese C., Bagarello V., Baiamonte G., Corrao G.: "Un modello semplificato di trasferimento dell'eccesso di pioggia lungo un versante".
from 09-09-1998 to 12-09-1998

Convegno dell'Associazione Italiana di Ingegneria Agraria (Congress of the Italian Association of Agricultural Engineering). Congree on: "Monitoraggio e Modellazione dei Processi Idrologici". Palermo, Italy, October 7 - 8, 1999. Agnese C., Baiamonte G.: "Studio sperimentale del processo d'infiltrazione col simulatore di Kamphorst. Applicazione del modello di Green e Ampt".
from 07-10-1999 to 08-10-1999

"XXV General Assembly dell'European Geophysical Society - EGS". Nice, France, April 25 – 29, 2000. Agnese C., Baiamonte G.: "On the scale invariance of the probability distributions of peak floods in the Sicilian region".
from 25-04-2000 to 29-04-2000

“XXVII Convegno di Idraulica e Costruzioni Idrauliche” (XXVII Congress of Hydraulics and Hydraulic Structures). Genova, Italy, September 12 - 15, 2000. Agnese C., Baiamonte G.: "Sull'influenza delle resistenze al moto nel processo di trasferimento dell'eccesso di pioggia lungo un versante".

from 12-09-2000 to 15-09-2000

VII Convegno Nazionale dell'Associazione Italiana di Ingegneria Agraria (VII Congress of the Italian Association of Agricultural Engineering): “Ingegneria Agraria per lo sviluppo dei paesi del mediterraneo”. Vieste (FG), Italy, September 11 – 14, 2001. Agnese C., Baiamonte G.: "Sull'influenza delle resistenze al moto nel processo di trasferimento dell'eccesso di pioggia lungo un versante". Agnese G., Baiamonte G., Ferro V.: "Un approccio quasi-teorico per la valutazione delle resistenze al moto di una corrente su un fondo granulare".

from 11-09-2001 to 14-09-2001

“XXVII General Assembly dell'European Geophysical Society - EGS”. Nice, France, April 21 – 26, 2002. Agnese C., Baiamonte G., Liuzza F.: "On the characteristic time of basin response".

from 21-04-2002 to 26-04-2002

Convegno Nazionale dell'Associazione Italiana di Idronomia (Congress of the Italian Association of Idronomy) on “Gestione integrata dei bacini idrografici”. Bari, Italy, October 2, 2002. Baiamonte G., Ferro V.: "Valutazione delle resistenze al moto di un corrente su un fondo granulare eterogeneo".

from 02-10-2002 to 02-10-2002

Convegno dell'Associazione Italiana di Ingegneria Agraria (Congress of the Italian Association of Agricultural Engineering) on “Study and monitoring of hydrological processes in agricultural and forest systems”. Anacapri (Capri Island, Italy), May 27 – 28, 2004. Agnese C., Baiamonte G.: "Un modello di generazione e trasporto del deflusso: Applicazione a un piccolo bacino".

from 27-05-2004 to 28-05-2004

Workshop on “Opere di riqualificazione ambientale dei corsi d'acqua, dalla scala di laboratorio a quella di campo”, PRIN 2004, Studio delle rampe in pietrame con modelli di laboratorio a differenti scale, Palermo, Italy, February 14 – 15, 2005. Baiamonte G., Ferro V.: "Sperimentazione di laboratorio sulle soglie in massi".

from 14-02-2005 to 15-02-2005

“VIII Convegno Nazionale di Ingegneria Agraria (VIII Congress of the Italian Association of Agricultural Engineering) - L'ingegneria Agraria per lo sviluppo sostenibile dell'area mediterranea”. Catania, Italy, June 27 – 30, 2005. Agnese C., Baiamonte G.: "Sul tempo di risposta di un versante a prevalente deflusso Hortoniano".
from 27-06-2005 to 30-06-2005

“IX Convegno Nazionale di Ingegneria Agraria (VIII Congress of the Italian Association of Agricultural Engineering) “L’ingegneria agraria per lo sviluppo sostenibile dell’area mediterranea”. Ischia Porto (NA), Italy, September 12 – 16, 2009. D’Asaro F., Baiamonte G.: "Una metodologia probabilistica semplificata di riproduzione del ruscellamento superficiale sul versante: possibili riscontri applicativi". Baiamonte G., Agnese C., Bagarello V.: "Effetti della copertura forestale sulle caratteristiche idrologiche del suolo".
from 12-09-2009 to 16-09-2009

Congress on “Previsione e mitigazione dei fenomeni di dissesto idrogeologico in Italia”, Trentennale dell’Associazione Italiana di Idronomia (AIDI), Thirty years of the Italian Association of Hydronomy, Palermo, Italy, May 10 - 11, 2012. Baiamonte G., Agnese C.: "Sulla distribuzione dei tempi di inter-arrivo delle piogge".
from 10-05-2012 to 11-05-2012

“XV Convegno dell’Associazione Italiana di Agrometeorologia (AIAM), XV Congress of the Italian Association of Agrometeorology, Nuovi scenari agroambientali: fenologia, produzioni agrarie e avversità”. Palermo, Italy, June 5 - 7, 2012. Agnese C., Baiamonte G., Cammalleri C., Cat Berro D., Ferraris S., Mercalli L.: "About time of occurrence of rainy days for mediterranean and sub-alpine areas".
from 05-06-2012 to 07-06-2012

Workshop on 11/26/2015, title “Aspetti tecnologici e progettuali degli impianti microirrigui” tenutasi a Marsala (PA). Baiamonte, G.: “Il software IrriLab per il dimensionamento ottimale dei settori microirrigui (patent –pending, MiSE, PO FESR 2007-2013 - Linea 412 A - Project “DIRETE - Distretti tecnologici della Sicilia in rete per l’innovazione e il trasferimento tecnologico””.
from 26-11-2015 to 26-11-2015

Workshop on 5/18/2016, svolto nell'ambito delle attività del Gruppo Azione Locale "GAL Valle del Belice", Cantine vinicole Vaccaro, Salaparuta (TP). Baiamonte, G.: "Il risparmio energetico nella progettazione dei settori microirrigui".

from 18-05-2016 to 18-05-2016

Workshop on 10/11/2016 svolto presso l'Istituto Euro-Mediterraneo di Scienza e Tecnologia (IE.ME.S.T., Palermo). Baiamonte, G.: "Il software IrriLab per il dimensionamento ottimale dei settori microirrigui: verifiche sperimentali per un impianto realizzato nell'Azienda Agricola ' Giacomo Armò Pirrone, agro di Caltavuturo (PA)' ".

from 11-10-2016 to 11-10-2016

Symposium in memory of Prof. Ignazio Melisenda Giambertoni, "Attualità dell'Irridazione Agraria e delle Sistemazioni Irridativo-Forestali al cambiare dei tempi". Palermo, Italy, May 4 – 5, 2017 - Aula Magna "G. Ballatore" – Dipartimento di Scienze Agrarie, Alimentari e Forestali. 1) Baiamonte G. Il software irrilab per il risparmio energetico nel dimensionamento degli impianti microirrigui. 2) Baiamonte G., Mangiapane G. Il software irrilab per gli impianti microirrigui: verifiche numeriche e sperimentali. 3) Baiamonte G. Una soluzione analitica della distribuzione di probabilità della portata di piena per versanti permeabili.

from 4-5-2017 to 5-5-2017

Workshop on 6/7/2017 organized by IrriTec S.p.A., G. Baiamonte: "Il software IrriLab per il dimensionamento immediato e ottimale degli impianti microirrigui: verifiche sperimentali"

from 7-6-2017 to 7-6-2017

Symposium in memory of Professor Giovanni Tournon, Salone d'Onore and Hall 10V, Castello del Valentino, Torino, Italy, June 21 – 22, 2018. 1) Baiamonte G. La formula razionale rivisitata

from 21-6-2018 to 22-6-2018.

7. Organization and Speaker presentations at International Conferences

Congress on "Soil erosion in semi-arid Mediterranean areas". Taormina, 28-30 Ottobre 1993. Bagarello V., Baiamonte G., Ferro V., Giordano G.: "Evaluating the topographic factors for watershed soil erosion studies".

from 28-10-1993 to 30-10-1993

International Conference on “Water Management, salinity and pollution control towards sustainable irrigation in the Mediterranean region”. MAI. Bari, Italy, September 22 - 26, 1997. Baiamonte G., Crescimanno, G.: "Assessing the influence of salinity and sodicity on wet aggregate stability and water dispersible clay to prevent soil crusting and erodibility“.

from 22-09-1997 to 26-09-1997

Workshop on the European Project PL970598 – Contract ENV4-CT97-0681. An integrated approach for sustainable management of irrigated lands susceptible to degradation/desertification (Predesodi). Palermo, Italy, May 5 - 6, 1999. Baiamonte G.: "The LEACHM model: Hydrological and Chemistry versions".

from 05-05-1999 to 06-05-1999

EurAgEng's Int. Workshop of the Interest Group of Soil and Water on “Modelling of transport processes in soils at various scales in time and space”. Leuven, Belgium, November 24-26, 1999. Baiamonte G., Crescimanno G.: "Hydraulic characterization of swelling/shrinking soils by a combination of laboratory and optimization techniques".

from 24-11-1999 to 26-11-1999

“XXVII General Assembly dell’European Geophysical Society - EGS-AGU-EUG Joint Assembly”. Nice, France, April 6 – 11, 2003. Baiamonte G., Agnese C., Liuzza F.: "Quick hillslope response: Time to equilibrium for Hortonian and Dunnian flows". Baiamonte G., Agnese C., Liuzza F.: "Analytical solutions for the hydrologic response at the hillslopes scale".

from 06-04-2003 to 11-04-2003

“European Geosciences Union, General Assembly 2005”. Vienna, Austria, April 24 – 29, 2005. Ferraris S., Baiamonte G, Agnese C.: "Saturation excess runoff numerical simulation". Baiamonte G, Agnese C., Ferraris S.: "A model of Dunnian flow at hillslope scale".

from 24-04-2005 to 29-04-2005

“European Geosciences Union, General Assembly 2006”. Vienna, Austria, April 2 – 7, 2006. Agnese C., Baiamonte G, D’Asaro F.: "Probability distribution of peak discharge at hillslope scale derived by an eco-hydrological approach".

from 02-04-2006 to 07-04-2006

“5th International Congress of the European Society of Soil Conservation”. Palermo, Italy, June 25 - 30, June, 2007. Agnese C., Bagarello V., Baiamonte G., Costa G., Mandracchia G.: "Delay times for saturation overland flow in forest soils".

from 25-06-2007 to 30-06-2007

“European Geosciences Union, General Assembly 2016”. Vienna, Austria, April 17 - 22, 2016. Baiamonte G., Singh V.P.: "Determining Probability Distribution of Hillslope Peak Discharge by Using an Analytical Solution of Kinematic Wave Time of Concentration". Baiamonte G.: "Maximizing water use efficiency in designing microirrigation unit (IrriLab Software)".

from 17-04-2016 to 22-04-2016

“European Geosciences Union, General Assembly 2017”. Vienna, Austria, April 23 - 28, 2017. Baiamonte G.: "Runoff coefficients to predict peak discharge at hillslope scale: A small contribution to theoretical hydrology.”

from 23-04-2017 to 28-04-2017

Organization activity of a section of the “European Geosciences Union, General Assembly 2017”. Vienna, Austria, April 23 - 28, 2017.

SSS4.6/BG2.41/HS11.52

Bioremediation and contaminated soils (co-organized)

Convener: Claudio De Pasquale | Co-convenors: Vito Armando Laudicina, Francesco Parrino, Paola Quatrini, Giorgio Baiamonte

from 23-04-2017 to 28-04-2017

8. Participation in research groups characterized by cooperation at a local level

P.O.P. 94/99 - misura 10.4 - La gestione dell'irrigazione nel quadro del miglioramento della qualità e della riduzione dei costi di produzione in viticoltura. Scientific Responsibility: CRESCIMANNO Giuseppina

from 01-01-1994 to 31-12-1999

M.U.R.S.T. ex 60% 1998. Project title: Studio teorico-sperimentale sui meccanismi di formazione del deflusso superficiale. Scientific Responsibility: AGNESE Carmelo.

from 01-01-1999 to 01-01-2001

M.U.R.S.T. ex 60% 1998. Project title: Processi di trasporto di acqua e soluti in terreni con macropori e/o crepacciature. Scientific Responsibility: CRESCIMANNO Giuseppina.

from 01-01-1999 to 01-01-2001

M.U.R.S.T. ex 60% 2002. Project title: Valutazione del tempo caratteristico di risposta del versante con l'impiego di modelli d'infiltrazione semplificati. Scientific Responsibility: AGNESE Carmelo

from 01-01-2003 to 01-01-2005

M.U.R.S.T. ex 60% 2005. Project title: Formazione e trasferimento del deflusso superficiale a scala di versante. Scientific Responsibility: AGNESE Carmelo

from 16-01-2006 to 16-01-2008

Progetto Innovativo d'Ateneo 2007. Project title: Ottenimento di biocombustibili da colture in regime irriguo mediante il riutilizzo di acque reflue depurate: Scientific Responsibility: CARRARA Michele

from 15-02-2008 to 15-02-2010

M.U.R.S.T. ex 60% 2007. Project title: Distribuzione di probabilità della portata di piena a scala di versante generata da deflusso di tipo *Hortoniano*. Scientific Responsibility: AGNESE Carmelo

from 25-07-2008 to 25-07-2010

Fondo Finalizzato alla Ricerca (FFR) 2012-2013. Project title: Dinamica spazio temporale del contenuto idrico del suolo mediante integrazione tra informazione topografica ad alta risoluzione e termografia ad immagine. University of PALERMO. Scientific Responsibility: D'ASARO Francesco.

from 28-02-2012 to 31-12-2015

9. Participation in research groups characterized by cooperation at a Regional or National level

PRIN Project 1998: Influenza della morfologia del sistema dei solchi sulla formazione del deflusso superficiale e sull'erosione idrica. Scientific Coordinator: ROSSO Renzo, Scientific Responsibility: AGNESE Carmelo
from 20-12-1998 to 20-12-2000

National Research Council (CNR) Project GNDCI Gruppo nazionale per la difesa dalle catastrofi idrogeologiche U.O. 1.10 Processi idrologici di trasporto liquido e solido a scala di versante. Scientific Responsibility: MELISENDA GIAMBERTONI Ignazio
from 01-01-1999 to 31-12-2001

PRIN Project 2000: Processi di trasporto dell'acqua e dei soluti in terreni argillosi irrigati con acque salino/sodiche. Scientific Coordinator: PATRUNO Antonia, Scientific Responsibility: CRESCIMANNO Giuseppa
from 20-12-2000 to 20-12-2002

PRIN Project 2001: Valutazione delle resistenze al moto su superfici granulari in condizioni di macroscabrezza. Scientific Coordinator: PAGLIARA Stefano, Scientific Responsibility: FERRO Vito
from 12-12-2001 to 12-12-2003

PRIN Project 2004: Studio delle rampe in pietrame con modelli di laboratorio a differenti scale. Scientific Coordinator: FERRO Vito, Scientific Responsibility: FERRO Vito
from 30-11-2004 to 30-11-2006

PRIN Project 2005: Strategie e problematiche legate alla desalinizzazione di terreni argillosi con crepacciature. Scientific Coordinator: GUARNIERI Adriano, Scientific Responsibility: CRESCIMANNO Giuseppa
from 30-01-2006 to 30-01-2008

PRIN Project 2007: Effetti del riscaldamento globale sulle componenti del bilancio idrologico del sistema suolo-pianta-bassa atmosfera: applicazione al territorio siciliano. Scientific Coordinator: FERRARIS Stefano, Scientific Responsibility: AGNESE Carmelo.
from 22-09-2008 to 22-09-2010

Project FUTURO IN RICERCA (FIRB) 2012: Sviluppo di modelli innovativi per il monitoraggio multiscala degli indicatori di servizi ecosistemici nelle foreste Mediterranee (MIMOSE). Scientific Responsibility of the Research Unit: CULLOTTA Sebastiano, Scientific Coordinator: LOMBARDI Fabio.

from 20-02-2012 to 20-02-2015

PRIN Project 2010-2011: “I paesaggi tradizionali dell'agricoltura italiana: definizione di un modello interpretativo multidisciplinare e multiscala finalizzato alla pianificazione e alla gestione”. Scientific Coordinator BARBERA Giuseppe, Scientific Responsibility: PROVENZANO Giuseppe Antonio.

from 01-02-2013 to 01-02-2016

Programma operativo Fondo Europeo di Sviluppo Regionale PO FESR Regione Siciliana 2007-2013. Progetto DIRETE – “Distretti tecnologici della Sicilia in rete per l’innovazione e il trasferimento tecnologico”. Asse 4 Linea d’intervento 4.1.2.A – operazioni di tipo b) Scientific Responsibility: VALENZA Antonino.

from 26-11-2014 to 30-06-2015

Programma operativo Fondo Europeo di Sviluppo Regionale PO FESR Regione Siciliana 2007-2013. Progetto RILTUS –Rete Integrata dei Laboratori Tecnologici delle Università Siciliane – Linea d’intervento 4.1.2.A. – operazioni di tipo a) Scientific Responsibility: D’ASARO Francesco.

from 07-08-2015 to today

PRIN Project 2015: “Infrastrutture verdi per la gestione e la tutela delle risorse idriche”. Scientific Coordinator: TOSCANO Attilio, Scientific Responsibility: IOVINO Massimo

from 20-09-2016 to today

Project proposal PO FESR Regione Siciliana 2014-2020, Azione 1.1.5, “Sostegno all’avanzamento tecnologico delle imprese attraverso il finanziamento di linee pilota e azioni di validazione precoce dei prodotti e di dimostrazione su larga scala” Titolo del progetto: Smart grids per le isole minori. Scientific Responsibility: CATALIOTTI Antonio.

from 22-09-2017 to today

Project proposal PRIN 2017: “INNOvative treatments and Valorisation of Agro-industrial by-products, Wastewater and Waste (INNOVAW2)”. Scientific Coordinator: CIRELLI Giuseppe, Scientific Responsibility: BAGARELLO Vincenzo
from 22-03-2018 to today

10. Direction or participation in research group activities characterized by international cooperation

European Project, European Commission CORDIS IC20980113 Contract ENV4-CT97-0681: An integrated approach for sustainable management of irrigated lands susceptible to degradation/desertification (Predesodi). Scientific Responsibility: CRESCIMANNO Giuseppina
from 01-04-1998 to 01-04-2001

Research group activities characterized by an international cooperation, with the Imam Khomeini International University, Qazvin, Iran, Faculty of Engineering and Technology, Department of Civil Engineering, on “Modelling wet and dry spells for daily rainfall data series collected in different countries”. Contact person Prof. ALIREZA SHOKOOHI.
from 01-10-2015 to today

Research activity carried out with the Department of Biological and Agricultural Engineering della Texas A&M University cooperation, College Station, Texas, USA, on “Modeling the probability distribution of peak discharge from infiltrating hillslopes”. Contact person Prof. Vijay P. Singh.

11. Responsibility for studies and scientific research by qualified public or private institutions

National Research Council CNR - Aimed Project Ricerche Avanzate per Innovazioni nel Sistema Agricolo, in the fiels area: “Impatto delle agro-tecnologie sui sistemi agricoli e sull’ambiente”, titled: “L’uso di acque salino-sodiche. Effetti su: conducibilità idrica satura e caratteristiche di erodibilità dei terreni”.
from 01-05-1992 to 30-04-1994

National Research Council CNR - Aimed Project RAISA in the fiels area: “Impatto delle agrotecnologie sui sistemi agricoli e sull’ambiente”, titled: “L’uso di acque salino-sodiche. Effetti su: conducibilità idrica satura e caratteristiche di erodibilità dei terreni”.

from 01-04-1995 to 01-11-1995

M.U.R.S.T. 2000 (ex 60%) titled: “Indicatori di siccità dedotti da serie giornaliere di precipitazioni”.

from 01-01-2001 to 31-12-2003

M.U.R.S.T. 2001 (ex 60%) titled: “Indagine sperimentale su un semplice dispositivo per la misura delle portate nelle correnti a pelo libero”.

from 01-01-2002 to 01-01-2004

M.U.R.S.T. 2004 (ex 60%) titled: “Formazione e trasferimento del deflusso superficiale a scala di versante”.

from 01-05-2005 to 01-05-2007

M.U.R.S.T. 2006 (ex 60%) titled: “Distribuzione di probabilità della portata di piena a scala di versante generata da deflusso di tipo Hortoniano”.

from 31-01-2007 to 31-01-2009

U.O.A. Project COOPERAZIONE INTERNAZIONALE PER LA FORMAZIONE E LA RICERCA CO.RI. 2014. Grant assignment for the start-up and development of the University's international collaborations – Azione D outgoing.

from 07-03-2015 a 31-12-2016

12. Scientific responsibility for international and national research projects, based on competitive calls for peer review

TITLE OF THE PROPOSAL: "Mesures tendant à Atténuer et à adapter les effets du changement climatique sur les milieux marins et les milieux côtiers Dunaires et arrière-dunaires - ATTIDE".

Thematic objective: OT3 Protection de l’environnement et adaptation au changement climatique

Priorità: P.3.2 Conservation e utilisation durable de ressources naturelles.

PARTNERSHIP LEADER: Municipality of Custonaci (TP)

Partner 1, Dipartimento di Scienze della Terra e del Mare (DiSTeM), University of Palermo

Partner 2, Dipartimento Scienze Agrarie, Alimentati Forestali (SAAF), University of Palermo

EXTERNAL PARTNERS INVOLVED: Biosurvey. S.r.l. - spin-off accademico dell'Università di Palermo, ONG Tunisina: "Association Nationale de Développement Durable et de la Conservation de la Vie Sauvage", Institut National Agronomique de Tunis (INAT)

FINANCIAL PROGRAM: ITALIA- TUNISIA (*PHASE 3*)

Budget totale eleggibile per il partner SAAF: € 126.000,00 + € 14.000,00 di cofinanziamento;

Coordinator for UNIPA: Prof. Sebastiano Calvo

SAAF Scientific Responsibility: Prof. Giorgio Baiamonte.

from 12-01-2018 to today

TITLE OF THE PROPOSAL: “HYDROlogical response to Adaptive Vegetation cover Management in Mediterranean catchments”, Section2 – Multi-Topic.

Thematic area 1: Sustainable water management for arid and semi-arid Mediterranean area.

Partner 1, Council for Agricultural Research and Economics-Agriculture and Environment Research Center (CREA-AA), Bari, Italy.

Partner 2, Universitat Politècnica de València, Research Institute of Water and Environmental Engineering - Re-Forest, Valencia, Spain.

Partner 3, University of Lyon, Université Claude Bernard Lyon 1, France.

Partner 4, Department of Geography and Environmental Studies, University of Haifa, Israel.

Partner 5, University of Tunceli, Engineering Faculty, Tunceli, Turkey.

FINANCIAL PROGRAM: PRIMA18_00353

Budget totale RF eleggibile per il partner: € 410.944,68;

Global Coordinator: Prof. Giorgio Baiamonte, Department of Agricultural, Food and Forest Sciences. University of Palermo, Italy.

NON Finanziato. It is attached the committee report.

from 27-03-2018 to 14-06-2018

TITLE OF THE PROPOSAL: “Reducing losses in water, energy, and soil fertility using integrated soil and water management tools (REL-WENS)”.

Thematic area: Sustainable agriculture and food production

Partner, National Research Centre, Cairo (Egypt).

FINANCIAL PROGRAM: Progetti di Grande Rilevanza Italia- Egitto, Ministero degli Affari Esteri e della Cooperazione Internazionale (MAECI)

Budget totale RF for the SAAF partner: € 54,420 + € 39,200 (co-funding);

Principal Investigator for SAAF: Prof. Giorgio Baiamonte

Principal Investigator for National Research Centre: Prof. Hani Mohamed Mehanna
from 25-05-2019

13. Revision activity of manuscripts submitted to ISI Journal Articles

Journal of Hydrology, Elsevier

Water Resource Research, Wiley

Journal of Agricultural Engineering, PagePress

Geoderma, Elsevier

Hydrology Research, IWA Publishing

Hydrological Processes, Wiley

ASCE J Irrigation and Drainage Engineering

ASCE J Hydraulic Engineering

ASCE J Hydrologic Engineering

Natural Hazard, Springer

Computers and Electronics in Agriculture, Elsevier

Hydrology and Earth System Sciences, Copernicus Publications

Land Degradation and Development, Wiley

European Journal of Soil Science, Wiley

Irrigation Science, Springer

Journal of Soil and Sediment, Springer

Agricultural Water Management, Elsevier

Hydrological Sciences Journal, Taylor and Francis

Advances in Agricultural Science, AAS Journal

Manuscripts recently reviewed are available at:

<https://publons.com/researcher/1216253/giorgio-baiamonte/>

14. Appointment to Editorial Boards of Journals

Associate Editor Journal of Hydrological Engineering ASCE

Associate Editor Hydrology MDPI

Guest Editor Sustainability MDPI section "Sustainable Engineering and Science". Special Issue "Sustainable Soil and Water Conservation"

Guest Editor Water MDPI section "Urban Water Management". Special Issue "Nature-Based Solutions to Improve the Permeability of the Urban Landscape and Water Quality in Cities"

15. Member of the PhD courses Accademic Council and teaching in the same context

Participation to teaching board of PhD course in "ENVIRONMENTAL IDRONOMY". Proposing University: University of PALERMO. Starting Academic year: 2000 - Cycle: XV - Duration: 3 years. from 01-11-2000 to 31-10-2003

Participation to teaching board of PhD course in "ENVIRONMENTAL IDRONOMY". Proposing University: University of PALERMO. Starting Academic year: 2001 - Cycle: XVI - Duration: 3 years. from 01-11-2001 to 31-10-2004

Participation to teaching board of PhD course (Segretary) in "ENVIRONMENTAL IDRONOMY". Proposing University: University of PALERMO. Starting Academic year: 2002 - Cycle: XVII - Duration: 3 years. from 01-10-2002 to 30-09-2005

Participation to teaching board of PhD course (Segretary) in "ENVIRONMENTAL IDRONOMY". Proposing University: University of PALERMO, Starting Academic year: 2003 - Cycle: XVIII - Duration: 3 years. from 01-10-2003 to 30-09-2006

Participation to teaching board of PhD course (Segretary) in "ENVIRONMENTAL IDRONOMY". Proposing University: University of PALERMO. Starting Academic year: 2004 - Cycle: XIX - Duration: 3 years. from 01-01-2005 to 31-12-2007

Participation to teaching board of PhD course (Secretary) in "ENVIRONMENTAL IDRONOMY".
Proposing University: University of PALERMO. Starting Academic year: 2005 - Cycle: XX -
Duration: 3 years.
from 01-01-2006 to 31-12-2008

Teaching assignment in teaching board of PhD course in "AGRO-ENVIRONMENTAL SYSTEM"
in the field "Risposta Idrologica dei Piccoli Bacini nell'ipotesi di Formazione Hortoniana del
Deflusso Superficiale".
from 01-01-2006 to 31-12-2006

Participation to teaching board of PhD course (Secretary) in "ENVIRONMENTAL IDRONOMY".
Proposing University: University of PALERMO. Starting Academic year: 2006 - Cycle: XXI -
Duration: 3 years.
from 01-01-2007 to 31-12-2009

Participation to teaching board of PhD course (Secretary) in "ENVIRONMENTAL IDRONOMY".
Proposing University: University of PALERMO. Starting Academic year: 2007 - Cycle: XXII -
Duration: 3 years.
from 01-01-2008 to 31-12-2010

Participation to teaching board of PhD course (Secretary) in "ENVIRONMENTAL IDRONOMY".
Proposing University: University of PALERMO. Starting Academic year: 2010 - Cycle: XXIV -
Duration: 3 years.
from 01-01-2011 to 31-12-2013

Teaching assignment in teaching board of PhD course in "AGRO- ENVIRONMENTAL SYSTEMS"
in the field "Risposta Idrologica dei Versanti".
from 01-01-2013 to 31-12-2013

Participation to teaching board of PhD course (Secretary) in "AGRO- ENVIRONMENTAL
SYSTEMS". Proposing University: University of PALERMO. Starting Academic year: 2011 - Cycle:
XXV - Duration: 3 years.
from 01-01-2012 to 31-12-2014

Participation to teaching board of PhD course (Secretary) in "AGRO- ENVIRONMENTAL SYSTEMS". Proposing University: University of PALERMO. Starting Academic year: 2012 - Cycle: XXVI - Duration: 3 years.

from 01-01-2013 to 31-12-2015

Participation to teaching board of PhD course in "AGRICULTURAL, FOOD AND FOREST SCIENCES". Proposing University: University of PALERMO. Starting Academic year: 2017 - Cycle: XXXIII - Duration: 3 years.

from 01-01-2017 to 31-12-2019

16. Teaching or research assignments in qualified National or International universities and research institutes

Assignment of teaching of 20 hours on “Drip irrigation systems and their design” and on “Hillslope hydrology and modeling” at the Department of Biological and Agricultural Engineering, Texas A&M University, College Station, Texas, USA (contact person, Prof. Vijay P. Singh.

from 21-04-2016 to 30-04-2016

17. Achievement of prizes and awards for scientific activity, including affiliation in recognized prestigious academies in the sector

Author of the paper “Baiamonte G, Ferro V (2007). Simple flume for flow measurement in sloping open channel. *J Irrig Drain E-ASCE*, 133(1): 71-78, doi: 10.1061/(ASCE)0733-9437(2007)133:1(71)”, selected among the “Papers of Interest” in the *J. Hydraul. Eng. E-ASCE*, 2007, 133(2): 240-240.

from 01-02-2007 to today

Affiliation at the 'Istituto Euro-Mediterraneo di Scienza e Tecnologia (IEMEST) (Euromediterranean Institute of Science and Technology), Accredited Research Organization, see art. 30 comma 1 del Regolamento CE 800/2008 and art. 83 Regulation UE n.651/2014, entrusted by the Ministry of Education, Universities and Research (MIUR) and registered in the “Anagrafe Nazionale della Ricerca” and in the database of the European Commission for research associations.

(www.iemest.eu/en/sections-2/22-members/363-giorgio-baiamonte).

from 10-10-2016 to 23-12-2016.

Best Discussion Award 2017 from the Editor of the Journal of Hydrologic Engineering for the discussion "Analysis of Extreme Rainfall Trends in Sicily for the evaluation of Depth-Duration-Frequency Curves in Climate Change Scenarios" by Giorgio Baiamonte and Francesco D'Asaro.

from 24-2-2017 to today.

National selection for full professor in the Competition Sector 07/C1

(Bando D.D. 1532/2016 del 29/7/2016).

from 28-03-2017 to 28-03-2023

18. Results achieved in technology transfer in terms of participation in the creation of new businesses (spin off), development, use and marketing of patents

Patent n° 102015000017479, title "Quick method to design drip laterals in sloping fields", from the European Patent Office, Italian Ministry of Economic Development.

The method was been used in a Software Application, named "IrriLab v. 1.0.0", (University of PALERMO, Italian Ministry of Economic Development - Italian Patent and Trademark Office (Italy), which allows maximizing the energy saving in the subunit microirrigation design.

from 3-11-2017 to today.

Developing a software application, named IrriLab v. 1.0.0 [Computer software], for all the companies that operate on global scales in the field of the materials for micro-irrigation. The software allows maximizing the energy saving in the subunit microirrigation design. With the cooperation of IRRITEC SpA, IrriLab has been experimentally tested for a subunit extended 0.13 ha.

An IrriLab DEMO version can be downloaded at:

<https://www.unipa.it/dipartimenti/saaf/ricerca/prodotti.html>

<https://www.facebook.com/irrilab>.

from 5-4-2016 to today.

Selection from ICE, Agenzia per la Promozione all'Estero e l'Internazionalizzazione delle Imprese Italiane, of the project titled “Quick Method for the Optimal Design of Drip Laterals on Uniform Slopes” and presented at the third BIAT Edition (Borsa dell’Innovazione e dell’Alta Tecnologia), Catania, 2-3 Marzo 2017.

from 2-3-2017 to 3-3-2017

Third Mission-activities, [https://www.knowledge-share.eu/brevetto/? sf s=Giorgio%20Baiamonte](https://www.knowledge-share.eu/brevetto/?sf_s=Giorgio%20Baiamonte)
from 7-7-2017 to today

Patent pending n° 102017000141369, titled “Method for the realization of a modular structure for the land protection and said structure”, European Patent Office, Italian Ministry of Economic Development.

from 7-12-2017 to today

Patent pending n° 102019000015623, titled “Rotating Sprinkler Guns in Center-Pivot Irrigation Systems”, European Patent Office, Italian Ministry of Economic Development.

from 5-9-2019to today

19. Institutional assignments

Member of the Commission judging the public competition by titles and interview for n. 1 Research Fellow 2001 settore n. 2, Research title: Studio teorico-sperimentale della produzione di sedimenti a scala di bacino. ITAF Department, University of Palermo. Decreto del Rettore n°1288 dated 27/9/2001.

Member of the Commission judging the public competition by titles and interview for n. 1 Research Fellow 2001 settore n. 2, Research title: Misura del trasporto preferenziale di acqua e soluti in terreni argillosi irrigati con acque salino sodiche. ITAF Department, University of Palermo. Decreto del Rettore n°1288 dated 27/9/2001.

Member of the Commission judging the public competition for n°1 University Researcher Settore Scientifico Disciplinare Agr/08 Idraulica Agraria e Sistemazioni Idraulico-Forestali Faculty of

Agriculture, University of Naples, R/04/2002, D.R. dated 31 Ottobre 2002, published on G.U. – 4a Serie Speciale - n. 91 on 19 Novembre 2002.

Member of the Commission judging the public competition by titles and interview for n. 1 Research Fellow 2001 settore n. 2, Research title: Studio teorico e sperimentale dell'influenza dei fenomeni di trasporto preferenziale di acqua e soluti sui processi di accumulo e lisciviazione di soluti. ITAF Department, University of Palermo. Decreto del Rettore n°1285 dated 22/03/2004.

Member of the Commission judging the public competition by titles and interview for n. 1 Research Fellow 2004 settore n. 2, Research title: Studio teorico e sperimentale dell'influenza dei fenomeni di trasporto preferenziale di acqua e soluti sui processi di accumulo e lisciviazione di soluti. ITAF Department, University of Palermo. Decreto del Rettore n°1285 dated 22/03/2004.

Member of the Commission Practical-Application Internship for Bachelor and Master degrees in Environmental and Forestry Science Degree course and Agro-Engineering Degree course. A.Y.A.Y. 2001/2005, ITAF Department, University of Palermo.

Member of the Commission judging the public competition for Environmental Idronomy PhD admission, A.Y. 2005/2006 (administrative headquarters: University of PALERMO). Decreto Rettorale del 29 Luglio 2005 n. 7497-2005, published on G.U.R.I. n. 68 on 26.8.2005 - IV Serie Speciale, Concorsi ed Esami

Member of the State Examinations Commission for the license to practice law of Agronomist and Forestry. ITAF Department, University of Palermo.

Member of the Commission judging the public competition for Environmental Idronomy PhD admission, A.Y. 2008/2009 (administrative headquarters: University of PALERMO). Decreto Rettorale on 29 Febbraio 2008 n. 915-2008, n. 915-2008, D.R. n. 3786/2007 on 31/7/2007.

Member of the Commission "Verifica dell'adeguatezza della personale preparazione" for the admission to Bachelor and Master degree in Agroingegneria e Scienze Forestali ed Ambientali. SAAF Department, University of Palermo.

SSD contact person in the Commission “Assicurazione della Qualità della Ricerca Dipartimentale CAQ-RD.” SAAF Department, University of Palermo.

Member of the Commission for the selection of n. 47 Teaching Tutors for tutoring and for didactic-integrative, introductory and recovery activities. University of Palermo. Decreto D.G. n. 2215/2018.

Member of the Commission "Attività formative a scelta dello studente" of the Consiglio di Classe STA, for the Macro Area 07/C1. SAAF Department, University of Palermo.

20. Specific professional experience characterized by research activities related to the pertinent scientific field

Professional assignment from the University of PALERMO on "Produzione di sedimenti a scala di bacino: Stima ed elaborazione dei fattori elementari per il calcolo della perdita di suolo a scala di bacino (Bacino di Prizzi, Rubino e Imera Meridionale a Petralia)".
from 09-09-1994 to 09-12-1994

Partisan Technical Advice assignment in the criminal proceedings registered at n° 361/97 RGNR and at n°4615/01 RGGIP, on flash floods determining the inundation of the street SS 113, Municipality of Altavilla Milicia (PA), date 27.12.1996.
from 01-01-2003 to 01-01-2003

Design assignment of an irrigation water reservoir in Contessa Entellina (PA).
from 01-01-2007 to 01-01-2007

Partisan Technical Advice assignment in the criminal proceedings n°2818/2005 and n°2415/2006 R.G., Mod. 44, on flash floods that on Oct 6, 2006, determined the train derailment 3875 on the railway line Messina-Palermo.
from 01-03-2007 to 01-03-2007

Partisan Technical Advice assignment on the irrigation water resources in the interests of suppliers of wineries in Contessa Entellina (PA)

from 01-11-2007 to 01-11-2007

Member of the Competition Commission on 30 settembre 2009 prot. N. 1885/2009, for the execution of the reclamation works of the industrial area ex Nissometal in c.da Panuzzi in Nissoria (EN), financed by the European Union, Awarding Authority Società Sviluppo Italia Aree Produttive S.p.A.
from 07-10-2009 to 01-02-2010

Partisan Technical Advice assignment in the criminal proceedings, N° 12484/06 RGNR e al N° 328/08 RGT, on flash floods that on 11.9.2006 determined the underpass inundation of via degli Oleandri, Municipality of Capaci (PA).
from 01-12-2010 to 01-12-2010

Technical Advice assignment A.T.P. R.G. n° 4728/2010 on flash floods that on October.2009 determined hydrological disasters in Altofonte (PA).
from 01-02-2011 to 01-02-2011

Partisan Technical Advice assignment A.T.P. R.G. n° 6512/2013 on the effects of the embankment storage in peak discharge and of the opening maneuvers of the outlet of the Garcia reservoir, Municipality of Contessa Entellina (PA), in the period 8 feb – 25 mar, 2013.
from 01-09-2013 to 01-09-2013

Design assignment of an irrigation rainfall water reservoir for the project of civil buildings in via Cardinale Borromeo, Palermo (PA).
from 01-11-2013 to 01-11-2013

Experimental microirrigation unit design, in “Giacomo Armò Pirrone” farm”, Caltavuturo (PA).
from 01-07-2016 to 01-07-2016

Partisan Technical Advice assignment about an artesian well, Municipality of Sciacca (AG), c.da Misilifumi.
from 08-04-2017 to today

21. Affiliations with research, scientific and professional associations

Member of the Italian Chamber of Engineers
from 24-02-1992 to today

Member of the Italian Hydrotechnical Association
from 25-10-1990 a 31-12-2006

Member of the Italian Association of Agricultural Engineering
from 04-05-2017 to today

Member of the Environmental & Water Resources Institute (EWRI) - ASCE
from 29-05-2019 to today

22. Complete list of scientific publications

Deposited manuscripts (according to Decreto Legislativo Luogotenenziale 31.08.1945 n. 660) and Abstracts of National and International presentations (n. 25)

- 1) Baiamonte, G.* (1992). "Studio dell'interazione acqua-suolo ai fini della valutazione di impatto ambientale dell'irrigazione con acque salino-sodiche". *Dipartimento E.I.T.A. - Settore Idraulica*. (Depositata ai sensi del D.L.L. 31/8/1945 n.660).
- 2) Baiamonte G.*, Ferro V. (1996) "Vertical suspended sediment distribution in uniform open channel flow". *Dipartimento E.I.T.A. Settore Idraulica*. (Depositata ai sensi del D.L.L. 31/8/1945 n.660).
- 3) Baiamonte G.*, Cicero, S. (1998). "Influenza della struttura e della conducibilità idrica satura del terreno sui deflussi e sull'erosione idrica". *Dipartimento I.T.A.F. - Sezione Idraulica*. Palermo. (Depositata ai sensi del D.L.L. 31/8/1945 n.660).

- 4) Agnese, C., Baiamonte G.* (2000). "On the scale invariance of the probability distributions of peak floods in the Sicilian region." XXV General Assembly of the European Geophysical Society, Nice, France, April 25 – 29, 2000. *Geophysical Research Abstracts*, Vol. 2.
- 5) Agnese G., Baiamonte G.*, Liuzza F. (2002). "On the characteristic time of basin response". XXVII General Assembly of the European Geophysical Society, Nice, France, April 21 - 26. *Geophysical Research Abstracts*, Vol. 4.
- 6) Baiamonte, G.*, Agnese, G., Liuzza, F. (2003). "Quick hillslope response: Time to equilibrium for Hortonian and Dunnian flows". *EGS-AGU-EUG Joint Assembly*, Nice, France, April 6 - 11, *Geophysical Research Abstracts*, Copernicus Publications, Gottingen, Germany.
- 7) Baiamonte, G.*, Agnese, G., Liuzza, F. (2003). "Analytical solutions for the hydrologic response at the hillslopes scale." *EGS-AGU-EUG Joint Assembly*. Nice, France, April 6 - 11, Vol. 5. *Geophysical Research Abstracts*, Copernicus Publications, Gottingen, Germany.
- 8) Ferraris, S.*, Baiamonte, G., Agnese, C. (2005). "Saturation excess runoff numerical simulation." General Assembly of the European Geosciences Union, Vienna, Austria, April 24 – 29, *Geophysical Research Abstracts*, EGU05-A-07314; HS4-1FR5P-0043, Copernicus Publications, Gottingen, Germany.
- 9) Baiamonte, G.*, Agnese, C., Ferraris, S. (2005). "A model of Dunnian flow at hillslope scale." General Assembly of the European Geosciences Union, Vienna, Austria, April 24 – 29, *Geophysical Research Abstracts*, EGU05-A-07139; HS4-1FR5P-0041, Copernicus Publications, Gottingen, Germany.
- 10) Agnese, C., Baiamonte, G.*, D'asaro, F. (2006). "Probability distribution of peak discharge at hillslope scale derived by an eco-hydrological approach." General Assembly of the European Geosciences Union, Vienna, Austria, April, 2-7. *Geophysical Research Abstracts*, Vol. 8, 04293, Copernicus Publications, Gottingen, Germany.
- 11) Agnese, C., Bagarello, V., Baiamonte, G.*, Costa, G., Mandracchia, G. (2007). "Delay times for saturation overland flow in forest soils." *5th International Congress of the European Society of Soil Conservation*. Palermo, June, 25-30, p. 397.

- 12) Agnese, C., Baiamonte, G.*, Iovino, M. (2008). "Coupling overland and subsurface flow model at hillslope scale." *10th International Drainage Workshop on Agricultural Drainage and Environment*. ICID Working Group on Drainage, Helsinki, Finland | Tallinn, Estonia, July, 6 – 11.
- 13) Baiamonte, G., Crescimanno, G.*, Marcum, K.B., Reina, G., and Versaci, A. (2009). "Plant and soil responses to deficit and saline irrigation under field irrigated conditions in a Sicilian vineyard." International Symposium on "*Methodologies for Integrated Analysis of Farm Production Systems*", Monterey (CA), August, 23-26.
- 14) Agnese, C., Baiamonte, G., Bevilacqua, I., Cammalleri, C.*, Cat Berro, D., Ferraris, S., Mercalli, L. (2011). "Trend of inter-arrival times of rainfall events for Italian Sub-Alpine and Mediterranean areas." *EMS Annual Meeting Abstracts*, Vol. 8. Berlin, 12-16 September 2011.
- 15) Baiamonte, G., Conte, P., Crescimanno, G., De Pasquale, C.*, Marsala, V. (2012). "Assessing the influence of different biochar fractions on soil structure and soil water retention: laboratory investigation on a Sicilian soil." *4th International Congress Eurosoil*, Fiera del Levante, Bari, July, 2 – 6.
- 16) Ferraris, S.*, Agnese, C., Cammalleri, C., Baiamonte, G., Cat Berro, D., Mercalli, L., Canone, D., Previati, M. (2014). "Applying a probabilistic model of rainfall and snow days occurrence to daily series recorded in NW Italy." General Assembly of the European Geosciences Union, Vienna, Austria, 27 April – 02 May, *Geophysical Research Abstracts*, Vol. 16, EGU2014-12264, Copernicus Publications, Gottingen, Germany.
- 17) Ferraris, S.*, Baiamonte, G., Cammalleri, C., Agnese, C., Cat Berro, D., Mercalli, L. (2014). "Spatial variability of dry spells duration statistical distributions". *Trending Now: Water*, *7th International Scientific Conference on the Global Water and Energy Cycle*, The Hague, The Netherlands, July, 14-17.
- 18) Ferraris, S.*, Agnese, C., Baiamonte, G., Canone, D., Previati, M., Cat Berro, D., Mercalli, L. (2015). "Trends of some high quantiles of average and extremes inter-arrival times and rainfall depths at daily scale for an Italian Sub-Alpine area General Assembly of the European

Geosciences Union, Vienna, Austria, April, 12 – 17, 2015. *Geophysical Research Abstracts*, Vol. 17, EGU2015-15290, Copernicus Publications, Gottingen, Germany.

- 19) Ferraris, S.*, Agnese, C., Baiamonte, G., Cat Berro, D., Mercalli, L. (2016). “Modelling wet and dry spells for daily rainfall data series: an application to North-West Italy.” General Assembly of the European Geosciences Union, Vienna, Austria, April, 17 – 22, 2016. *Geophysical Research Abstracts*, Vol. 18, EGU2016-16368, Copernicus Publications, Gottingen, Germany.
- 20) Baiamonte, G.*, Singh, V.P. (2016). “Determining probability distribution of hillslope peak discharge by using an analytical solution of kinematic wave time of concentration.” General Assembly of the European Geosciences Union, Vienna, Austria, April, 17 – 22, 2016. *Geophysical Research Abstracts*, Vol. 18, EGU2016-9884, Copernicus Publications, Gottingen, Germany.
- 21) Baiamonte, G.*, (2016). “Maximizing water use efficiency in designing microirrigation unit (IrriLab Software).” General Assembly of the European Geosciences Union, Vienna, Austria, April, 17 – 22, 2016. *Geophysical Research Abstracts*, Vol. 18, EGU2016-15919, Copernicus Publications, Gottingen, Germany.
- 22) Bagarello, V.*, Baiamonte, G., Cullotta, S., Gugliuzza, G., Iovino, M., La Mela Veca, D.S., Maetzke, F., Palmeri, V., Sferlazza, S. (2016). “Confronto tra differenti metodologie di valutazione della qualità fisica del suolo in un’area a pascolo e bosco della Sicilia.” Convegno: “*Biografia di un’idea: L’insegnamento di Salvatore Puglisi e l’attualità delle Sistemazioni Idraulico-Forestali*”, Abstract, Bari, 9 e 10 Febbraio.
- 23) Baiamonte, G., De Pasquale, C.*, Parrino, F., and Crescimanno, G. (2017). “Influence of biochar on the physical and chemical retention properties of an amended sandy soil.” General Assembly of the European Geosciences Union, Vienna, Austria, April, 23 – 28, 2017. *Geophysical Research Abstracts*, Vol. 19, EGU2017-18017, Copernicus Publications, Gottingen, Germany.
- 24) Baiamonte, G.* (2018). “Runoff coefficients to predict peak discharge at hillslope scale: A small contribution to theoretical hydrology.” General Assembly of the European Geosciences

Union, Vienna, Austria, April, 8 – 13, 2018. *Geophysical Research Abstracts*, Vol. 20, EGU2018-14109, Copernicus Publications, Gottingen, Germany.

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- 2) Baiamonte, G., Motisi, A. (2018). “An analytical approach extending the Granier method to radial sap flow patterns.” Submitted to *Agr Water Manage* on 18/12/2018.

- 3) Baiamonte, G. Analytical solution of the Richards equation under gravity-driven infiltration and constant rainfall intensity. Submitted to *J Hydrol E – ASCE* on 9/8/2019

23. Teaching activity

He has been Advisor and Co-Advisor of a number of Bachelor and Master of Science Degrees, Tutor of Practical-Application Internships and Advisor of PhD Thesis. Currently, he is Advisor of the PhD student Mustafa ELFAHL, already Researcher Assistant at the National Research Centre del Cairo (Egypt), who is developing a PhD Thesis on “Microirrigation unit design and energy saving”.

He has been chairperson or member of Examination Committee of the courses:

Rehabilitation of Agricultural Land and Irrigation, Mountain Watersheds Rehabilitation, Forest Hydrology, Agricultural and forest landscape preservation and hydraulic rehabilitation, Fundamentals of Hydraulics and Forest Hydrology, Physics and Fundamentals of Physics, Mathematics, Informatics and Physics, Water Resources and Irrigation and Drainage Systems; Irrigation Systems, Fundamentals of Irrigation, Irrigation and Drainage in the Courses Activated at Faculty of Agriculture, today Department of Agricultural, Food And Forest Sciences (SAAF), University of Palermo.

He held classes and University Courses, as a substitute teacher or as institutional teaching course, listed below:

Course of **Rehabilitation of Agricultural Land and Irrigation** (Tecnica della Bonifica e dell'Irrigazione) (A.Y. 1999/2000), as a substitute teacher in the course of Agricultural Science degree, at the Faculty of Agriculture, University of PALERMO.

from 01-10-1999 to 30-09-2000

Classes up 12 hours of **Analysis and practical laboratory activities** (Analisi e Attività pratica di laboratorio) in the course of "Expert in the evaluation and recovery of soils (Esperto nella valutazione e recupero dei suoli), n° 970134/PA/1/4/0/002/7, financed by F.S.E. - Italian Minister of Labour, Regional Department of Labour and Professional Training.

from 01-04-2000 to 30-04-2000

Course of **Agricultural and forest landscape preservation and hydraulic rehabilitation** (Tutela del Paesaggio Agricolo Forestale e Riassetto Idraulico del Territorio) (A.Y. 2000/2001), as a substitute teacher in the Master of Science course of Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2000 to 30-09-2001

Incentivazione dei Professori e dei Ricercatori Universitari D.R. n. 592 del 11 Luglio 2000, Metodi Innovativi per la risoluzione di problemi progettuali di “**IDRAulica, Idrologia Agraria e Forestale**” e “**SIStemazioni Idraulico-Forestali**” (MIDRASIS)

from 01-10-2001 to 30-09-2002

Course of **Rehabilitation of Agricultural Land And Irrigation** (Tecnica della Bonifica e dell'Irrigazione) (A.Y. 2001/2002), as a substitute teacher in the course of Agricultural Science degree, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2001 to 30-09-2002

Classes up 30 hours the Recovery Course of “**Hydraulics and Forest Hydrology**” (Incentivazione dei professori e dei ricercatori universitari (legge 370/1999, art.4, lett. b), punto 2).

from 01-10-2002 to 30-09-2003

Course of **Agricultural and forest landscape preservation and hydraulic rehabilitation** (Tutela del Paesaggio Agricolo Forestale e Riassetto Idraulico del Territorio) (A.Y. 2002/2003), as a substitute teacher in the Master of Science course of Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2002 to 30-09-2003

Classes up 30 hours of 30 in the Recovery course of “**Hydraulics and Forest Hydrology**” “**Idraulica, Idrologia Forestale e Sistemazioni Idraulico-Forestali**”. Incentivazione dei Professori e dei Ricercatori Universitari D.R. n. 592 del 11 Luglio 2000.

from 01-10-2003 to 30-09-2004

Course of **Agricultural and forest landscape preservation and hydraulic rehabilitation** (Tutela del Paesaggio Agricolo Forestale e Riassetto Idraulico del Territorio) (A.Y. 2003/2004), as a substitute teacher in the Master of Science course of Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2003 to 30-09-2004

Course of **Fundamental of Physics** (A.Y. 2003/2004), as a substitute teacher in the Bachelor degree course in Agricultural Science & Technology and Biological Agricultural, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2003 to 30-09-2004

Course of **Agricultural and forest landscape preservation and hydraulic rehabilitation** (Tutela del Paesaggio Agricolo Forestale e Riassetto Idraulico del Territorio) (A.Y. 2004/2005), as a substitute teacher in the Master of Science course of Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2004 to 30-09-2005

Course of **Fundamental of Physics** (A.Y. 2004/2005), as a substitute teacher in the Bachelor degree course in Agricultural Science & Technology and Biological Agricultural, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2004 to 30-09-2005

Classes up 30 hours in the context of Progetto di Formazione a valere sull'Art. 12 D.M. 593/00, Programma Operativo Nazionale - Ricerca Sviluppo Tecnologico, Alta Formazione 2000-2006, Protocollo n.12848, Titolo del corso: "**Esperto della filiera vitivinicola per la produzione di mosto concentrato rettificato solido**", Proponente: Cantine Foraci s.r.l. contrada Serroni, 91026 Mazara del Vallo (TP).
from 01-01-2004 to 31-01-2004

Classes up 15 hours in the context of updating course for "Dirigenti Tecnici" and "Funzionari" of the Agricultural and forestry Department of the Sicilian Region (FORMEZ) titeld: Mountain Watersheds Rehabilitation and Soil Conservation, Sub-course: Mountain Watersheds Rehabilitation (Corso per dirigenti e per funzionari)
from 26-10-2004 to 14-01-2005

Classes in II level Master in ”**Sistemazione dei Bacini montani e difesa del Suolo (SIBS)**” at the ITAF Department (University of Palermo), instituted with D.R. on 02.08.2005.
from 01-10-2005 to 30-09-2006

Course of **Mountain Watersheds Rehabilitation** (A.Y. 2005/2006), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2005 to 30-09-2006

Course of **Fundamental of Physics** (A.Y. 2005/2006), as a substitute teacher in the Bachelor degree course in Agricultural Science & Technology and Biological Agricultural, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2005 to 30-09-2006

Classes in II level Master in ”**Irrigazione in Ambiente Mediterraneo (IAM)**”, at the ITAF Department (University of Palermo), instituted with D.R. on 09.08.2006.
from 01-10-2006 to 30-09-2007

Course of **Forest Hydrology** (A.Y. 2006/2007), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2006 to 30-09-2007

Course of **Fundamental of Physics** (A.Y. 2006/2007), as a substitute teacher in the Bachelor degree course in Agricultural Science & Technology and Biological Agricultural, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2006 to 30-09-2007

Course of **Forest Hydrology** (A.Y. 2007/2008), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.
from 01-10-2007 to 30-09-2008.

Course of **Fundamental of Physics** (A.Y. 2007/2008), as a substitute teacher in the Bachelor degree course in Agricultural Science & Technology and Biological Agricultural, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2007 to 30-09-2008.

Classes up 8 hours in the course **Fundamentals of Hydraulic and Forest Hydrology** (A.Y. 2007/2008) in the Bachelor degree course in Environmental and Forestry Science, on: “Formazione deflusso superficiale (modelli di Horton, Dunne e Hewlett), pioggia netta, deflusso su versanti forestali”.

from 01-10-2007 to 30-09-2008.

Course of **Forest Hydrology** (A.Y. 2008/2009), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2008 to 30-09-2009

Course of **Physics** (A.Y. 2008/2009), as a substitute teacher in the Bachelor degree course in Agricultural Science & Technology and Biological Agricultural, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2008 to 30-09-2009

Course of **Forest Hydrology** (A.Y. 2009/2010), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2009 to 30-09-2010

Course of **Physics** (A.Y. 2009/2010), as a substitute teacher in the Bachelor degree course in Agricultural Science & Technology and Biological Agricultural, at the Faculty of Agriculture, University of PALERMO.

Course of **Forest Hydrology** (A.Y. 2010/2011), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2010 to 30-09-2011

Course of **Forest Hydrology** (A.Y. 2011/2012), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2011 to 30-09-2012

Course of **Water Resources and Irrigation and Drainage Systems** (A.Y. 2011/2012), as institutional teaching course in the Master of Science in Agricultural Sciences and Technologies, at the Faculty of Agriculture, University of PALERMO.

from 01-10-2011 to 30-09-2012

Course of **Forest Hydrology** (A.Y. 2012/2013), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Department of Agricultural Sciences and Technologies, University of PALERMO.

from 01-10-2012 to 30-09-2013

Course of **Water Resources and Irrigation and Drainage Systems** (A.Y. 2012/2013), as institutional teaching course in the Master of Science in Agricultural Sciences and Technologies, at the Department of Agricultural Sciences and Technologies, University of PALERMO.

from 01-10-2012 to 30-09-2013

Course of **Water Resources and Irrigation and Drainage Systems** (A.Y. 2013/2014), as institutional teaching course in the Master of Science in Agricultural Sciences and Technologies, at the Department of Agricultural, Food and Forest Sciences (SAAF), University of PALERMO.

from 01-10-2013 to 30-09-2014

Course of **Forest Hydrology** (A.Y. 2014/2015), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Department of Agricultural Sciences, University of PALERMO.

from 01-10-2014 to 30-09-2015

Course of **Water Resources and Irrigation and Drainage Systems** (A.Y. 2014/2015), as institutional teaching course in the Master of Science in Agricultural Sciences and Technologies, at the Department of Agricultural, Food and Forest Sciences (SAAF), University of PALERMO.

from 01-10-2014 to 30-09-2015

Course of **Forest Hydrology** (A.Y. 2015/2016), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Department of Agricultural, Food and Forest Sciences (SAAF), University of PALERMO.

from 01-10-2015 to 30-09-2016

Course of **Forest Hydrology** (A.Y. 2016/2017), as institutional teaching course in the Master of Science in Environmental and Forestry Science, at the Department of Agricultural, Food and Forest Sciences (SAAF), University of PALERMO.

from 01-10-2015 to 30-09-2016

Course of **Water Resources and Irrigation and Drainage Systems** (A.Y. 2016/2017), as institutional teaching course in the Master of Science in Agricultural Sciences and Technologies, at the Department of Agricultural, Food and Forest Sciences (SAAF), University of PALERMO.

from 01-10-2016 to 30-09-2017

Course of **Water Resources and Irrigation and Drainage Systems** (A.Y. 2017/2018), as institutional teaching course in the Master of Science in Agricultural Sciences and Technologies, at the Department of Agricultural, Food and Forest Sciences (SAAF), University of PALERMO.

from 01-10-2017 to 30-09-2018

Course of **Water Resource, Water Quality and Wastewater in Agri-Food Industries** (A.Y. 2018/2019), as institutional teaching course in the Master of Science in Agro-food Science and Technology, at the Department of Agricultural, Food and Forest Sciences (SAAF), University of PALERMO.

from 23-9-2019 to 6-12-2019