

PERSONAL INFORMATION Tommaso Pacetti

JOB APPLIED FOR POSITION PREFERRED JOB STUDIES APPLIED FOR

JOB APPLIED FOR Environmental Engineering

WORK EXPERIENCE

January 2019- December 2019

Postdoc Research Fellow

University of Urbino (Italy)

Agrismart project. Evaluation and mapping of Ecosystem services aiming at developing an environmental reporting in the districts of Lugela, Derre, Namarroi e Gilé in Zambezia –

Mozambico

May 2018- ongoing

Consultant

Sogesid c/o Ministry of Environment

Member of the Creiamo PA project team for strengthening the administrative and technical capacity of the competent authorities for the management and sustainable use of water

resources

Febraury 2018- ongoing

Lecturer

University of Florence Lecturer of hydraulic plants

January 2018- December 2018

Postdoc Research Fellow University of Florence (Italy)

Water-Energy-Land Nexus analysis for integrated water management.

February 2015 - January 2017

Scientific Consultant

CERAFRI -Center of Research and Advanced Education for Hydrogeological Risk

Prevention, University of Florence(Italy)

Water footprint analysis for oil and wine production in Tuscany (ISO 14046 and Water

Footprint Network) using SimaPro.

November 2014- December 2014

Internship

ICU (Beirut-Lebanon)



Curriculum Vitae

Tommaso Pacetti

 Internship within the Accbat project for the improvement of water demand management and increase of water resources availability, through re-use of urban treated wastewater in the Beka valley

January 2014- December 2014

Technical Consultant

ProGeo engineering s.r.l. (Arezzo)

Member of E²STORMED project (Med Programme). E²STORMED aims to improve energy
efficiency in the urban water cycle and in buildings by promoting the use of innovative storm
water solutions such as Sustainable Drainage Systems (SuDS) in Mediterranean cities
Business or sector Water-Energy management

May 2014- August 2014

Internship

Departamento de Ciencias Agroforestales, Universidad de Huelva (Spain)

Water resources management for irrigation district of Palos de la Frontera.
 Setting up forecasting artificial neural networks (ANN) models to optimize the use of water and energy in agriculture.
 Business or sector Water resources management

January 2014- June 2104

Internship

CERAFRI research centre (Retignano, Lucca)

 Investigating the possibilities of implementing WF case study within the framework of Water energy nexus (Master thesis research topic)

Business or sector Water resources management

Febraury 2011- July 2013

Technical Consultant

Pisa municipality (Via degli Uffizi 1, Pisa)

Member of WADI Project (EU Ciudad Programme) technical team for Water master plan
drafting and river training structures design. The project aims to create a Master Plan for
surface water for Jericho municipality. The project is based on joint work between Palestinian
and Italian partner municipalities (Jericho and Pisa) in order to develop appropriate plans for
surface water management and flood control.

Business or sector Hydraulic Engineering-Water resources management

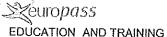
January 2010-October 2010

Internship

Engineering Without Borders (Via di Santa Marta 3, Firenze)

• Member of "Tulkarem project" technical team. The internship was based on the study of Tulkarem (Palestinian Territories) hydrological situation and analysis of issues relating to water resource management. The training activities were supported by two major local partner: Municipality of Tulkarem and An Najah University in Nablus. During the placement was performed an on-site mission to gather data and to implement an hydraulic simulation model of the water network of the city

Business or sector Environmental engineering and hydraulic modelling



November 2014-> May 2018

International PhD in Civil and Environmental Engineering Università degli Studi di Firenze - TU Braunschweig

Investigation of water energy land ecosystem nexus for watershed integrated management.

The PhD research activity was focused on water resources management and its possible integration with ecosystems land management in resource scarcity scenarios. During the thesis I develop methodologies for water related ecosystem services assessment, also exploring water food nexus in developing countries. Grade: Outstanding (summa cum laude)

October 2010->December 2013

MSc in Environmental engineering

Università degli Studi di Firenze, Facoltà di Ingegneria, via di Santa Marta 3 – 50139 Firenze

- · Life cycle assessment and water footprint assessment (ISO 10040-14046) Integrated water resources management Energy system management Water resources management in semiarid zones River morphodynamics River and irrigation structures design Operations research Advanced Hydrology Design of water treatment plants Applied Economics
- 35 ECTS were obtained at UNESCO-IHE (Delft) during the Erasmus Program (2011)
- Master Thesis: Water energy nexus: the case of biogas production from energy crops

Life cycle assessment and Water Footprinting. Master Thesis Grade: 110/110, cum laude

2/9/2013 - 6/9/2013

ISES 2013- International school on energy systems

Forschungszentrum Jülich (D)

 Strategies and challenges of today's and future energy systems management. Possible transformation process towards sustainability.

8/7/2013 - 12/7/2013

International summer school on Life-Cycle Approaches to Sustainable Regional Development

University of Salento, Ecotekne, Lecce (IT)

 LCA approach in agriculture, industry, transport, services and administration. In particular, relying on the bases of the Life-Cycle Approach, Carbon Footprint and Water Footprint have been analyzed

5/9/2011 - 9/9/2011 Intensive course on "River and Coastal measurements" CERAFRI, Retignano (IT)

Sediment load measurements, river discharge measurements, GPS surveying

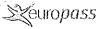
4/7/2011 - 23/7/2011

Hydroinformatics for decision support systems special course UNESCO-IHE, Delft (NL)

System analysis in water resources planning and management

Urban Flood Modelling and Disaster Management special course 25/4/2011 - 15/5/2011 UNESCO-IHE, Delft (NL)

Theory and practice of flood risk estimation and modelling of floods in urban areas



September 2004-October 2010

BSc in Environmental engineering

Università degli Studi di Firenze, Facoltà di Ingegneria, via di Santa Marta 3 - 50139 Firenze

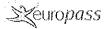
- Engineering physics Analysis of ecological systems Geographic information systems Water resources management Structural analysis and design Sanitary/environmental engineering River engineering Hydrology Hydraulic structures
- Thesis: Water resources assessment and distribution systems analysis for Tulkarem region, Palestine. Thesis Grade: 107/110

- List of pubblications Pacetti, T., Castelli, G., Mazzanti B., Cecconi L., Tilli L., Caporali E., Bresci E. (2018) Water Values: participatory water ecosystem services assessment in the Arno river basin. Atti Convegno Nazionale di Idraulica e Costruzioni Idrauliche - IDRA 2018
 - Castelli, G., Pacetti, T., Foderi, C., Castro Magnani, M., Kempff, Y.,... & Salbitano, F. (2018, April). Towards Landscape Ecohydrology: linking historical landscape patterns and ecosystem services provision in Bolivian sub-Andean region. In EGU General Assembly Conference Abstracts (Vol. 20, p. 12558).
 - Pacetti, T., Willaarts, B., Caporali, E., & Schroeder Esselbach, B. (2017). Evaluating the hydrological functioning and the supply of water provisioning services to support the ecosystem-water-food-energy nexus in the Arno river basin. In EGU General Assembly Conference Abstracts (Vol. 19, p. 13951).
 - Pacetti Tommaso, Enrica Caporali and Maria Cristina Rulli (2017). Floods and food security: A method to estimate the effect of inundation on crops availability. In: Advances in Water Research 2017
 - Pacetti Tommaso, Enrica Caporali and Boris Schroeder Esselbach (2017), valuating the supply of hydrologic ecosystem services to support the water-food-energy Nexus in the Arno river basin. Atti convegno SWAT 2017, Varsavia
 - Pacetti Tommaso, Enrica Caporali and Boris Schroeder Esselbach (2017). Trade-off analysis of water ecosystem services at the watershed scale. Atti convegno IDRA 2016, Bologna
 - Pacetti, T., Lombardi, L., & Federici, G. (2015). Water-energy Nexus: a case of biogas production from energy crops evaluated by Water Footprint and Life Cycle Assessment (LCA) methods. Journal of Cleaner Production.
 - "History and geography of water": an online interdisciplinary course on water value (2015). World Engineering Education Forum. Florence, 20-24 September
 - Tommaso Pacetti, Enrica Caporali, Laura Zanchi, Giorgio Federici (2015) Comparing Water Footprint impact methods: a case study on biogas production from energy crops. EXPO 2015 conference, LCA for "Feeding the planet and energy for life"
 - Water-Energy Nexus: the Water Footprint of biogas production in a changing climate. (2015) Rome 2015 - Science symposium on climate, FAO, Rome
 - Pacetti, T., Lombardi, L., & Federici, G. (2014) L'integrazione di Life Cycle Assessment e Water Footprint per la valutazione delle bioenergie in "I nuovi orizzonti dell'LCA; verso un approccio sistemico e integrato alla progettazione di prodotti, processi e servizi . Atti del VIII Convegno Scientifico dell'Associazione Rete Italiana LCA, Firenze, 19-20 giugno 2014 " ENEA 2014. (ISBN 978-888286-306-7)

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PERSONAL SKILLS	

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Spanish					
	B1	A2	B1	A2	_



Communication skills

Team work experiences: Board Member of Ingegneria Senza Frontiere (Engineering Without Borders) O.N.L.U.S.(2009 - 2010 and 2013) ISF is a no-profit Organization that intends to carry on training activities on the themes of appropriate technologies and sustainable development and to establish sustainable and durable connections between technicians and students from Italian Universities and beneficiaries in Developing Countries

Organisational / managerial skills Organization of several academical meeting and seminar on water management. Organization conferences and meetings working with Engineering Without Borders. Coordination of several international youth camp in Europe (Hungary, Germany, England) organized with Tavarnelle Town Twinning Committee

Job-related skills

Hydrological modelling, geographic information systems development, remote sending data analysis. Capable of organising and carrying out hydraulic measurements in rivers

Computer skills

Expert in hydrological modelling software (SWAT, Hec-Hms)

Familiar with Microsoft Office programs Knowledge of LCA software (Simapro) Knowledge of Matlab and Simulink software

Knowledge of hydraulic simulation software: Hec-ras (Usace), Epanet(Usepa) Experience with GIS and CAD software, both developed during university courses

Limited experience with Mike 21(DHI), Mouse (DHI), Sobek (Deltares), Iric (Usgs), Statistica (Statsoft) developed during university courses at Unesco IHE Capable of using both

Windows and Linux - Ubuntu OS

Other skills

· Classical guitarist

Florence, 20 January 2020