

PERSONAL INFORMATION

Tommaso Pacetti

PROFESSIONAL EXPERIENCE

January 2023 - ongoing

Consultant

Ministry of Agriculture, Food Sovereignty and Forests

- Supporting the team implementing the PNRR on the topic of Sustainable development, EU taxonomy and application of derived European and national standards

July 2021 - ongoing

Consultant

CREN società cooperativa (Rimini, Italy)

Technical consultant for environmental modelling within the following projects:

- LUIGI Project: ecosystem services assessment in the area of "5 laghi- Ivrea" within the Interreg project LUIGI- Linking Urban and Inner-Alpine Green Infrastructure
- Foreste Casentinesi National Park ESA: ecosystem services assessment for the definition of future management strategies
- Heineken ESA: ecosystem services assessment to identify company offsetting strategies
- Val D'Aosta ESA: ecosystem services assessment of Val D'Aosta region

May 2018- ongoing

Consultant

Sogesid spa c/o Ministry of Ecological Transition (Rome, Italy)

- Member of the Creiamo PA project technical team for strengthening the administrative and technical capacity of the competent authorities for the management and sustainable use of water resources. Development of national guidelines and capacity building activities for River Basin District Authorities related to the following topics: Natural Water Retention measures, Economical Analysis connected to the Water framework Directive, Decision support systems for WFD .
- Between 2020 and 2022, member of the working group on WFD and FD harmonisation within the Directorate on soil and water resources protection (DG SUA)

May 2018- September 2018

Consultant

ReteSviluppo s.coop (Florence, Italy)

- WaterValues project: participatory evaluation (through focus groups) of water related ecosystem services in the Arno river basin

February 2015 -January 2017

Consultant

CERAFRI - Centre of Research and Advanced Education for Hydrogeological Risk Prevention, University of Florence (Lucca, Italy)

- Water footprint analysis of agricultural production in Tuscany (ISO 14046 and Water Footprint Network methodologies)

November 2014 - December 2014

Internship

ICU Beirut (Beirut, Lebanon)

- 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

Consultant

ProGeo Engineering (Arezzo, Italy)

- Member of E²STORMED project (Med Programme) technical team. Evaluation of innovative storm water solutions such as Sustainable Drainage Systems (SuDS) in Mediterranean cities to improve energy efficiency in the urban water cycle and in buildings

May 2014- August 2014

Internship

Departamento de Ciencias Agroforestales – University of Huelva (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

January 2014- June 2104

Internship

CERAFRI - Centre of Research and Advanced Education for Hydrogeological Risk Prevention, University of Florence (Lucca, Italy)

- Investigating the possibilities of implementing WF case study within the framework of Water energy Food nexus

February 2011- July 2013

Consultant

Pisa municipality (Pisa, Italy), Jericho Municipality (Jericho, Palestine)

- 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

January 2010-October 2010

Internship

Engineering Without Borders (Italy)

- Member of "Tulkarem project" technical team. The internship was based on the study of Tulkarem (Palestine) hydrology and analysis of risks related to water resource management. Field activities to gather data and to implement an hydraulic simulation model of the water network of the city

ACADEMIC APPOINTMENTS

December 2022 – ongoing

Research Fellow (Assegnista di ricerca)

Department of Economics and Management (DISEI)- University of Florence (Italy)

- Research activities for the development of a hydro economic model for a pilot area in Tuscany Region

July 2022 – November 2022

Research Fellow (Borsista di ricerca)

Department of Economics and Management (DISEI)- University of Florence (Italy)

- Research activities for the development of a hydro economic model for a pilot area in Tuscany Region

July 2021 – June 2022

Postdoc Research (Assegnista di ricerca)

Department of Civil and Environmental Engineering (DICEA)- University of Florence (Italy)

- Research activities in the field of Water-Energy-Land Nexus analysis for integrated water management with a specific focus on hydrological modelling, water accounting and ecosystem services assessment.

January 2019- June 2021

Research Fellow (Borsista di ricerca)

Department of Biomolecular Sciences (DISB) - University of Urbino (Italy)

Research activities related within two international cooperation projects:

- 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 (Mozambique)
- Foreste project: Ecosystem Services assessment in the Mocubela district (Mozambique) to support an integrated production system that can reduce vulnerability to climate change.

January 2018- December 2018

Research Fellow (Assegnista di ricerca)

Department of Civil and Environmental Engineering (DICEA) - University of Florence (Italy)

- Research activities in the field of Water-Energy-Land Nexus analysis for integrated water management

EDUCATION AND TRAINING

05/02/2020 – 07/02/2020

Nature-based solutions in Urban Planning

University of Trento (Italy)

- Winter school on NBS planning

November 2014 - May 2018

International PhD in Civil and Environmental Engineering and Natural Sciences

University of Florence (Italy) – TU Braunschweig (Germany), Joint PhD

- PhD Thesis title: 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)

17/10/2016 – 22/12/2016

Visiting PhD

CEIGRAM, Universidad Politecnica de Madrid (Spain)

- Water Energy Food Nexus modelling development

17/02/2016 – 19/02/2016

Spatial multi criteria analysis for environmental decision making

University of Trento (Italy)

- Winter school on theory and application of Spatial Multi Criteria analysis

October 2010 - December 2013

MSc in Environmental engineering

University of Florence (Italy)

- 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 title: Water energy nexus: the case of biogas production from energy crops evaluated by Life cycle assessment and Water Footprinting.
Grade: 110/110, cum laude

02/09/2013 – 06/09/2013

ISES 2013- International school on energy systems

Forschungszentrum Jülich (Germany)

- 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 (Italy)
 ▪ LCA approach in agriculture, industry, transport, services and administration. Life-Cycle Approach for design, Carbon Footprint and Water Footprint
- 5/9/2011 – 9/9/2011 **Intensive course on “River and Coastal measurements”**
 CERAFRI - Centre of Research and Advanced Education for Hydrogeological Risk Prevention, University of Florence (Italy)
 ▪ River and Coastal measurement techniques training
- 4/7/2011 – 23/7/2011 **Hydroinformatics for decision support systems short course**
 UNESCO-IHE (Netherlands)
 ▪ System analysis in water resources planning and management
- 25/4/2011 – 15/5/2011 **Urban Flood Modelling and Disaster Management short course**
 UNESCO-IHE (Netherlands)
 ▪ Theory and practice of flood risk estimation and modelling of floods in urban areas
- September 2004-October 2010 **BSc in Environmental engineering**
 University of Florence (Italy)
 ▪ Analysis of ecological systems, Geographic information systems, Water resources management Structural analysis and design, River engineering Hydrology Hydraulic structures
 Thesis: Water resources assessment and distribution systems analysis for Tulkarem region, Palestine.
 Grade: 107/110

UNIVERSITY TEACHING AND SUPERVISION

Courses and lectures

- A.Y. 2022/2023 **Lecturer (Docente a Contratto)**
 A.Y. 2021/2022 University of Camerino (Italy)
 A.Y. 2020/2021 Course in Ecosystem Services (Servizi Ecosistemici), 5 CFU (BIO/07)
 A.Y. 2019/2020 MSc in Biological Sciences
 (Academic year: 2019/2020,2020/2021,2021/2022, 2022/2023)
- A.Y. 2021/2022 **Invited seminar**
 University of Novisad (Serbia)
 Seminar (1 hour) on “Water-related Ecosystem Services (WES) assessment: from theory to practice” organized by University of Novi Sad (Serbia) within the workshop Ecosystems services, pressures, payments, and actions –motivation required in south-eastern CEI countries (ESS-MotSE)
- A.Y. 2021/2022 **Invited seminar**
 University of Florence (Italy)
 Seminar (3 h) “Ecosystem based approach to support rural development” within the module on “Sustainable Food Systems” of the First Level Specializing Master in Sustainable Management of Resources and Cultural Heritage for Local Development: Empowering Higher Education in Africa, organised by the IHEA Foundation – Italian Higher Education with Africa.
- A.Y. 2021/2022 **Honorary fellowship (Cultore della materia)**

- A.Y. 2020/2021 University of Florence (Italy)
Course in Watershed Hydrology and Flood Risk – MSc in GeoEngineering
Course in Acqua e Energia – MSc in Environmental Engineering
Course in Progettazione Idraulica – MSc in Civili Engineering
(Academic year: 2020/2021,2021/2022)
- A.Y. 2018/2019 **Lecturer (Docente a Contratto)**
A.Y. 2017/2018 University of Florence (Italy)
Course in Hydraulic Plants, (“Impianti idraulici” in mutuaione con “Impianti e Reti Idriche” e con “Complementi di Idrologia” in 2018/2019) 6 CFU, ICAR/02
MSc in Civil and Environmental Engineering
(Academic year: 2017/2018,2018/2019)
- A.Y. 2021/2022 **Invited seminar**
University of Florence (Italy)
Seminar (1 h) “Participatory Water Ecosystem Services Assessment” within the presentation of the 2021 World Water Development Report (WWDR) on “Valuing Water” at the courses of Flood risk and “Acqua e Energia”
- A.Y. 2015/2016 **Invited lecturer**
University of Novisad (Novi Sad, Serbia)
Lectures (16 hours) on the use of “Water Evaluation And Planning” (WEAP) system(within the workshop Stepping Beyond Conventional Water Resources Management with WEAP (StepInWEAP)

Other teaching activities

- August 2022 **Lecturer**
Consorzio di Bonifica 6 (Grosseto, Italy)
Invited seminar (1h) within the project AGORAGRI (PSR) on the role of Water Framework Directive for sustainable water management
- May 2021 **Lecturer**
CREN (Rimini Italy)
Invited seminar (2h) within the Interreg project PROBIODIV on modelling for ecosystem services assessment
- 02/2019 – 03/2019 **Lecturer**
Professione Consulenti (Siena, Italy)
Training Course for farmers (8h). Piano di Sviluppo Rurale (PSR) “Farsi Custode” on Ecosystem Services, Indexed weather insurances for agriculture, Water and Environmental Footprint.
- May 2019 **Lecturer**
Liceo Scientifico Statale Leonardo da Vinci (Florence, Italy)
Invited lecture (4h) on water footprint

Supervisions

- A.Y. 2015-2016 **BSc Thesis supervision**
onwards University of Florence (Italy)
Supervisor for 4 MSc thesis (Environmental Engineering and GeoEngineering) and co supervisor for 2 BSc thesis (Environmental Engineering and GeoEngineering)

RESEARCH PROJECT PARTICIPATIONS

- 2022-2025 **Project writing and member of project research group:**
University of Florence (Italy)
“Advancing non conventional water management for innovative climate-resilient water governance in the Mediterranean Area (AG-WaMED)” funded by PRIMA Program.
- 2021-2024 **Project writing and member of project research group:**
University of Florence (Italy)
“NEXUS Nature Ecosystem Society Solution: Fair and Sustainable Resource Allocation Demonstrator of the Multiple WEFE Nexus Economic, Social and Environmental Benefits for Mediterranean Regions (NEXUS-NESS)” funded by PRIMA Program
- 2019-2022 **Project writing and member of project research group:**
University of Florence (Italy)
“ORTI BLU- oluzioni innovative per la gestione sostenibile delle risorse idriche per l’orticoltura periurbana Fiorentina”, funded by Regione Toscana in the framework of the European Agricultural Fund for Rural Development (EAFRD).
- 2019-2020 **Project writing and member of project research group:**
University of Florence (Italy)
“FLORENCE- FLOod risk and water RESources management with Nature based solutions on City Environment” funded by Cassa di risparmio di Firenze
- 2019-2020 **Project writing and member of project research group:**
University of Florence (Italy)
“WaterValues-II valore dell’acqua” funded by Tuscany Region APP (Autorità Regionale per la Garanzia e la Promozione della Partecipazione)
- 2018-2021 **Member of project research group:**
University of Urbino (Italy)
“Agri-SMART: sostenere lo sviluppo resiliente ed inclusivo dei distretti di Gilé, Lugela, Derre e Namarroi in Zambesia – Mozambico ” funded by Italian Agency for Development Cooperation (AICS)
- 2018-2020 **Member of project research group:**
University of Urbino (Italy)
“FORESTE - Fortalecimento para Organizações rurais RESilientes e Sistemas Territoriais Ecologicamente sustentáveis” funded by Italian Agency for Development Cooperation (AICS)
- 2018-2020 **Member of project research group:**
University of Florence (Italy)
“Idrologia e qualità delle acque meteoriche in area urbana e impatti su gestione e progettazione” funded by Publiacqua Spa

PAPERS AND PUBLICATIONS

Papers in international Journals (WoS/SCOPUS-indexed)

1. **Pacetti, T.**, Cioli, S., Castelli, G., Bresci, E., Pampaloni, M., Pileggi, T., & Caporali, E. (2022). Planning Nature Based Solutions against urban pluvial flooding in heritage cities: A spatial multi criteria approach for the city of Florence (Italy). *Journal of Hydrology: Regional Studies*, 41, 101081.
2. Lompi, M., Tamagnone, P., **Pacetti, T.**, Morbidelli, R., & Caporali, E. (2022). Impacts of Rainfall Data Aggregation Time on Pluvial Flood Hazard in Urban Watersheds. *Water*, 14(4), 544.
3. **Pacetti, T.**, Castelli, G., Schröder, B., Bresci, E., & Caporali, E. (2021). Water Ecosystem Services Footprint of agricultural

- production in Central Italy. *Science of The Total Environment*, 797, 149095.
4. Mori, S., **Pacetti, T.**, Brandimarte, L., Santolini, R., & Caporali, E. (2021). A methodology for assessing spatio-temporal dynamics of flood regulating services. *Ecological Indicators*, 129, 107963.
 5. Caporali, E., Lompi, M., **Pacetti, T.**, Chiarello, V., & Fatichi, S. (2021). A review of studies on observed precipitation trends in Italy. *International Journal of Climatology*, 41, E1-E25.
 6. **Pacetti, T.**, Castelli, G., Bresci, E. et al. (2020) Water Values: Participatory Water Ecosystem Services Assessment in the Arno River Basin, Italy. *Water Resour Manage* 34, 4527–4544 (2020).
 7. **Pacetti T.**, Lompi M., Petri C. & Caporali E. (2020) Mining activity impacts on soil erodibility and reservoirs silting: evaluation of mining decommissioning strategies. In: *Journal of Hydrology*, 2020
 8. **Pacetti, T.**, Caporali, E. & Rulli M.C.(2017). Floods and food security: A method to estimate the effect of inundation on crops availability. In: *Advances in Water Research* 2017
 9. **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*

PhD Thesis

Pacetti, T. (2018). Investigating water-land-ecosystems nexus for watershed integrated management (Doctoral dissertation, Technische Universität Braunschweig and University of Florence).

Book Chapters

1. Santolini, R., **Pacetti, T.**, & Morri, E. (2021). Water-Dependent Ecosystems in Italy. *Water Law, Policy and Economics in Italy: Between National Autonomy and EU Law Constraints*, 137.
2. **Pacetti, T.**, Castelli, G., Cecconi, L., Cinelli, B., Dugini, M., Tilli, L., ... Bresci, E. (2019). WaterValues: il valore dell'Acqua. In A. Vitale & B. Dendena (Eds.), *10 idee per comunità sostenibili. Buone pratiche per una gestione intelligente della risorsa acqua* (pp. 68–74).

Conference proceedings

1. **Pacetti, T.**, Castelli, G., Schroeder, B., Bresci, E., & Caporali, E. (2022). Evaluating the Water Ecosystem Services Footprint to support agricultural water management in Central Italy: a watershed scale approach. In *EGU General Assembly Conference Abstracts* (pp. EGU22-12434).
2. **Pacetti, T.**, Santolini, R., Ecosystem Services assessment as tool to support integrated solutions for sustainable rural development in Mozambique. In: Li Y, Liu M, Li T, Peng X, Xu X. (Eds.), *Soil Conservation and Sustainable Development, Proceedings of LASOSU 2021*.
3. **Pacetti, T.**, Lompi, M., & Caporali, E. (2021). Analysis of mine sites restoration strategies for soil and water resources protection. In *EGU General Assembly Conference Abstracts* (pp. EGU21-14605).
4. Caporali, E., Lompi, M., **Pacetti, T.**, Chiarello, V., & Fatichi, S. (2021). An evaluation of rainfall regime changes in Italy over the last decades from literature. In *EGU General Assembly Conference Abstracts* (pp. EGU21-12786).
5. **Pacetti, T.**, Pampaloni, M., Castelli, G., Caporali, E., Bresci, E., Isola, M., & Lompi, M. (2020). Flood risk and water resources management with nature-based solutions on Florence city environment. In *EGU General Assembly Conference Abstracts* (p. 18833).
6. Lompi, M., **Pacetti, T.**, & Caporali, E. (2020). Evaluation of mining decommissioning strategies on catchment hydrology. In *EGU General Assembly Conference Abstracts* (p. 17725).
7. Mori, S., **Pacetti, T.**, Brandimarte, L., & Caporali, E. (2020). Spatio-temporal dynamics of flood regulating ecosystem services in the Arno river basin, Italy. In *EGU General Assembly Conference Abstracts* (p. 20148).
8. Castelli, G., **Pacetti, T.**, Bresci, E., & Caporali, E. (2020). Water Values: participatory assessment of riverine ecosystem services for sustainable water management in the Arno basin. In Ugolini F. & Pearlmutter D. (Eds.), *Proceedings of the International Conference Daylighting Rivers: Inquiry Based Learning for Civic Ecology* (pp. 81-85). Roma, Italy: Cnr Edizioni. ISBN: 978 88 8080 424 6
9. **Pacetti T.**, Cioli S., Castelli G., Pampaloni M., Bresci E., & Caporali E. (2020). Planning Nature-Based-Solutions through geographic information tools to manage flood risk on Florence city environment. In Ugolini F. & Pearlmutter D. (Eds.), *Proceedings of the International Conference Daylighting Rivers: Inquiry Based Learning for Civic Ecology* (pp. 81-85). Roma, Italy: Cnr Edizioni.
10. **Pacetti, T.**, Castelli, G., Caporali, E., Bresci, E., Cecconi, L., Cinelli, B., ... & Tilli, L. (2019). Water values: participatory water ecosystem services assessment for watershed management. In *EGU General Assembly Conference Abstracts* (p. 16023).
11. **Pacetti, T.**, Castelli, G., Cecconi, L., Tilli, L., Caporali, E., & Bresci, E. (2019). Water values: Participatory water ecosystem services assessment in the Arno River basin. *11th World Congress on Water Resources and Environment: Managing Water Resources for a Sustainable Future-EWRA 2019. Proceedings*
12. **Pacetti, T.**, Castelli, G., Mazzanti B., Cecconi, L.,... & E., Bresci. (2019). Water values: participatory water ecosystem services assessment in the Arno river basin. *Convegno Nazionale di Idraulica e Costruzioni Idrauliche, IDRA 2018, Atti del convegno*
13. Castelli, G., **Pacetti, T.**, Foderi, C., Castro Magnani, M., Kempff, Y. & Salbitano, F. (2018). 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).
14. Caporali, E., **Pacetti, T.**, & Rulli, M. C. (2017). Impacts of Floods Events on Food Security. In *AGU Fall Meeting Abstracts* (Vol. 2017, pp. H21S-07).
15. **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).

16. **Pacetti, T.**, Caporali, E., & Schroeder Esselbach, B. (2017). Evaluating the supply of hydrologic ecosystem services to support the water–food–energy Nexus in the Arno river basin. SWAT 2017 Conference Proceedings, Varsavia
17. **Pacetti T.**, Castelli G., & Zanchi L. (2017). Water Footprint analysis (ISO 14046) of organic Chianti wine production in Tuscany, Italy. Atti del XI Convegno della Rete Italiana LCA "Resource Efficiency and Sustainable Development Goals: il ruolo del Life Cycle Thinking", Siena, Italy, 22-23/06/2017. ISBN: 978-88-8286-352-4, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA).
18. **Pacetti, T.**, Caporali, E., & Schroeder Esselbach, B. (2016). Trade-off analysis of water ecosystem services at the watershed scale. Convegno Nazionale di Idraulica e Costruzioni Idrauliche IDRA 2016, Atti convegno
19. **Pacetti, T.**, Caporali, E., & Federici, G. (2015). "History and geography of water": An online interdisciplinary course on water value. In 2015 International Conference on Interactive Collaborative Learning (ICL) (pp. 1203-1205). IEEE.
20. **Pacetti, T.**, Caporali, E., Zanchi L., Federici, G (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"
21. **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)

Reviewer Activity

Reviewer for the Journal of Cleaner Production

PARTICIPATION TO CONFERENCES

Convener of Scientific Sessions

- 2022 European Geosciences Union – General Assembly (EGU-GA): Session Impacts of land use and land cover changes on water resources management and water-related ecosystem services – HS5.6
- 2022 VII Congress of the Italian University Network for Development Cooperation (CUCS): Session: Participatory research and open science for managing the water-energy-food-ecosystem-society (WEFES) nexus across the Global South and the Global North
- 2021 European Geosciences Union – General Assembly (EGU-GA): Session Impacts of land use and land cover changes on hydrological processes and water management – HS5.1.3
- 2019 VI Congress of the Italian University Network for Development Cooperation (CUCS): Session: Exploring the Water-Ecosystems-Food (WEF) Nexus under the lens of the Commons: from Water as a Common Good to the Right to Food
- 2019 XIV National Congress of "GIT-Geosciences and Information Technologies" Section of the Italian Society of Geosciences: Session: Remote Sensing of Hydraulic and Hydrological Modelling

Conference talks

1. **Pacetti, T.**, Castelli, G., Schroeder, B., Bresci, E., & Caporali, E. (2022). Evaluating the Water Ecosystem Services Footprint to support agricultural water management in Central Italy: a watershed scale approach. European Geoscience Union (EGU) General Assembly 2022, 23-27 May 2022, Wien
2. **Pacetti, T.**, El Jeitany, J., & Caporali, E. (2022). Evaluating water Ecosystem Services Footprint of agricultural production under climate change scenarios (No. IAHS2022-656). 29 May-3June, Montpellier
3. **Pacetti, T.**, Castelli G., Santolini, R., Morri E., Frey M., Gusmerotti N.M., Borghini A., Bresci, E., & Caporali, E (2021) Participatory assessment of water-related ecosystem services for integrated water management: experiences and lessons learnt. Delft International Conference on Socio-Hydrology. 06-08 September, Online
4. **Pacetti, T.**, Lompi, M., & Caporali, E. (2021). Analysis of mine sites restoration strategies for soil and water resources protection. European Geoscience Union (EGU) General Assembly 2021, 19–30 April 2021 Online
5. **Pacetti, T.**, Santolini, R., Morri E., Frey M., Gusmerotti N.M., Borghini A., Traini S. (2021). Evaluating Environmental and Resource Costs in water tariffs through an ecosystem services approach: a case for Italy. Ecosystem Services Partnership Conference 2021. 7-10 June, Online
6. **Pacetti, T.**, Santolini, R. (2021) Ecosystem Services assessment as tool to support integrated solutions for sustainable rural development in Mozambique. International Forum on Land Degradation, Soil Conservation and Sustainable Development (LASOSU) 21-23 August, Online
7. **Pacetti, T.**, Pampaloni, M., Castelli, G., Caporali, E., Bresci, E., Isola, M., & Lompi, M. (2020). Flood risk and water resources management with nature-based solutions on Florence city environment. European Geoscience Union (EGU) General Assembly 2020, 4-8 May, Online
8. **Pacetti T.**, Cioli S., Castelli G., Pampaloni M., Bresci E., & Caporali E. (2020). Planning Nature-Based-Solutions through geographic information tools to manage flood risk on Florence city environment. International Conference Daylighting Rivers: Inquiry Based Learning for Civic Ecology 1-2 December, Online
9. **Pacetti T.**, Castelli G., Bresci E., & Caporali E. (2019). Planning Nature-Based-Solutions through geographic information tools to manage flood risk on Florence city environment. Open Workshop Water-Ecosystems Management for Resilient Cities, University of Florence, 24th October 2019
10. **Pacetti, T.**, Castelli, G., Caporali, E., Bresci, E., Cecconi, L., Cinelli, B., ... & Tilli, L. (2019). Water values: participatory water ecosystem services assessment for watershed management. European Geoscience Union (EGU) General Assembly 2019, 7-12

April, Wien

11. **Pacetti, T.**, Castelli, G., Cecconi, L., Tilli, L., Caporali, E., & Bresci, E. (2019). Water values: Participatory water ecosystem services assessment in the Arno River basin. 11th World Congress on Water Resources and Environment: Managing Water Resources for a Sustainable Future-EWRA 2019. 25-29 June, Madrid
12. **Pacetti, T.**, Castelli, G., Bresci, E. & Caporali, E. (2018). Water values: Participatory water ecosystem services mapping and assessment in the Arno River basin. 2nd International Conference Citizen Observatories for natural hazards and Water Management (COWM 2018) 27-30 November, Venice
13. **Pacetti, T.**, Castelli, G., Mazzanti B., Cecconi, L.,... & E., Bresci. (2019). Water values: participatory water ecosystem services assessment in the Arno river basin. IDRA 2018, 12-14 September, Ancona
14. **Pacetti, T.**, Federici, G. (2018) I valori dell'acqua-Superare i conflitti fra Capitale Naturale e Capitale sociale. Conference "I benefici dello Storage Gli invasi naturali e artificiali per la tutela ambientale e le mitigazione del rischio", 27 September, Florence
15. **Pacetti, T.**, Caporali, E., & Rulli, M. C. Remote sensing characterization of crop vulnerability to flood. Associazione Italiana Telerilevamento (AIT) Conference 2018,4-6 July, Florence
16. **Pacetti, T.**, Caporali, E., & Schroeder Esselbach, B. (2017). Evaluating the supply of hydrologic ecosystem services to support the water–food–energy Nexus in the Arno river basin. SWAT 2017 Conference, 25-30 June, Warsaw

Conference posters

1. **Pacetti T.** (2019).The effects of flood on food security in Pakistan and Bangladesh VI Congress of the Italian University Network for Development Cooperation (CUCS 2019), 19-21 September, Trento
2. **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. EGU 2017, 23-28 April, Wien
3. **Pacetti, T.**, Caporali, E., & Schroeder Esselbach, B. (2016). Trade-off analysis of water ecosystem services at the watershed scale. Atti convegno IDRA 2016, 14-16 September, Bologna
4. **Pacetti, T.**, Caporali, E., & Federici, G. (2015).Water-Energy Nexus: the Water Footprint of biogas production in a changing climate.(2015) Rome 2015 – Science symposium on climate, FAO. 19-20 September, Rome
5. **Pacetti, T.**, Caporali, E., & Federici, G. (2015). "History and geography of water": An online interdisciplinary course on water value. 2015 International Conference on Interactive Collaborative Learning (ICL), 20-24 September 2015 Florence
6. **Pacetti, T.**, Lombardi, L., & Federici, G. (2014) L'integrazione di Life Cycle Assessment e Water Footprint per la valutazione delle bioenergie. VIII Convegno Scientifico dell'Associazione Rete Italiana LCA,19-20 June, Florence
7. **Pacetti, T.**, Lombardi, L., & Federici, G. (2014) Water–energy Nexus: a case of biogas production from energy crops evaluated by Water Footprint and Life Cycle Assessment (LCA) methods. IDRA 2014, 7-10 September, Bari

AWARDS

2021 - Premio 2020 del Tavolo Nazionale dei Contratti di Fiume” – Award of the National Working Table for River Basin Contracts – National Award.
 2019 - Feltrinelli prize “Smart and Sustainable Communities” for the activities carried out within the project WaterValues

OTHER INFORMATION

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B1	A2	B1	A2	A2

Academic Networks and Association Membership

- Italian Hydrologic Society – Società Idrologica Italiana (SII)
- Italian Group of Hydraulic (GII)
- Ecosystem Services Partnership
- European Geosciences Union (EGU)

A handwritten signature in black ink, reading "Tommaso Pacetti", is written in a cursive style.

Firenze, 22/11/2022