UNIVERSITÀ
DEGLI STUDI
FIRENZE

The Water Harvesting Lab (WHLab)

Department of Agricultural Food and Forestry System
University of Florence

Elena Bresci – Giulio Castelli

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Water Harvesting Lab

The Water Harvesting Research lab of the Department of Agricultural, Food and Forestry Systems (GESAAF) is active on **inter-disciplinary research in the field of Water Harvesting.**

Water Harvesting: "*the process of concentrating precipitation through runoff and storing it for beneficial use" (Oweis, 2006).*

Water Harvesting Group: Research lines

1. **Participatory approach** to Water Harvesting (WH) systems design and management
2. Best siting of WH structures
3. WH impact evaluation
4. Effects of WH on **ecosystem services and microclimate**
5. **Fog** collection
6. **Flood** Based Farming Systems (FBFS)
7. Water **Conflicts**

Water Harvesting Lab: People

Scientific Coordinator:
Prof. Elena Bresci – Associate Professor – elena.bresci[at]unifi.it

Prof. Fabio Salbitano – Associate Professor – fabio.salbitano[at]unifi.it

Ing. Giulio Castelli – Post PhD – giulio.castelli[at]unifi.it

Beatrice Laurita – PhD Student – beatrice.laurita[at]unifi.it

Water Harvesting Lab: People

Visiting Staff

Eyasu Yazew Hagos
Associate Professor in Land and Water Development
Mekelle University, Ethiopia
Visiting Professor 2017

Zobaer Ahmed
Visiting Fellow
BSc (Agriculture), MSc (Disaster Management), Erasmus Mundus International Master of Science in Rural Development (IMRD) at Ghent (Belgium), Pisa (Italy) and Humboldt (Germany) University- On going
Email: zunnun09[at]gmail.com

BSc and MSc Candidates

Eleonora Forzini
BSc Candidate 2018 – BSc in Forestry and Environmental Sciences
NDVI analysis of vegetation dynamics associated to fog collection implementation in Atacama Drylands

Aurora Righetti
MSc Candidate 2018 – MSc in Economics and Development
Ethiopia Exchange Program 2018

Water Harvesting Lab: Past Projects

- Aguacruz – Bolivia (2015-2017)
- Valles Resilientes – Bolivia (2017-2018)
- Harnessing Floods to Enhance Livelihoods and Ecosystem Services – Ethiopia (2016-2017)

Water Harvesting Lab: Current Projects

Quelimane Agricole - Mozambique

Involved in Water Harvesting design and building
Funding: Italian Agency for Development Cooperation
Leader: ManiTese NGO

Water Harvesting Lab: Current Projects

Soberanos - Guatemala

Participatory Design of Rooftop Water Harvesting Systems

2017-2018

Cooperation with Universidad San Carlos de Guatemala

Research and scientific outreach

Since 2015

- 5 Indexed papers (SCOPUS and ISI)
- 1 Book chapter (SPRINGER Publishing)
- 14 Conference talks in national and international conferences
- 6 MSc thesis
- 3 Awards from national institutions

Latest out:

UNIVERSITÀ DEGLI STUDI FIRENZE

International Online course on Water Harvesting

EDITION 2018-2019: Water Harvesting for land ecological restoration

Enrolment starts soon

META

University of Nairobi

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DIPARTIMENTO DI GESTIONE DEI SISTEMI AGRARI, ALIMENTARI E FORESTALI

Since 2015

	2015-'16	2016-'17	2017-'18	2018-'19
ECTS	6	4	4	4
Fee	300 €	150 €	150 €	150 €
Places reserved for emerging countries (no fee)	**0**	**10**	**10**	**10**
Enrollment number	**13**	**35**	**30**	**??**

Opportunities for UNIFI students

Possibility of **intership/trainee/MSc thesis** in the following Institutions:

- **MetaMeta Research** (the Netherlands, with fieldwork in Tanzania/Kenya)
- **Institut de Regions Arides** (Tunisia)
- **University of Nairobi** (Kenya)

And…

Two grants of 1,500 Euros available for MSc students

Water Harvesting in Ethiopia

The **Water Harvesting Lab** of GESAAF department offers **two grants of 1,500 E** each for covering the expenses of MSc thesis works in Ethiopia.

All the MSc of UNIFI are eligible

APPLICATIONS

DEADLINE FOR

15/10/2018

MSc Thesis Call: Announcement of preferential topics

General Topic: “Water/Land resource/risk management using geospatial data and models”

Aimed to explore human-nature interactions (land use changes dynamics and human-flood and human-ecosystem interactions) with Big/Open datasets and advanced cloud-based GIS platforms: **Google Earth Engine** and **ESRI ArcGIS online**.

MSc candidates will also receive **professional advanced training**

Thanks!

Water Harvesting Lab

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Stay in contact with us

- Mailing list: http://eepurl.com/dBQGOn
- Check our Website: https://www.gesaaf.unifi.it/vp-466-wh-lab.html
- Follow us on UNIFIMagazine (we often publish articles on field work)

TALK WITH US! WE ARE JUST HERE!