Research

Bachelor and Master Theses in Water Engineering

Master Theses in Environmental	Bachelor Theses for Civil, Environmental and Water
Engineering	Engineers
Several master theses can be realized in ongoing projects.	Several master theses can be realized in ongoing projects.
 Groundwater Recharge of Samos	 Keyjing Cheng: Hydrochemical
Island, Greece - Factors and Response	Processes associated with
to Extremes Extreme flooding on Samos Island	groundwater salinization on Samos
Greece - Causes, Mechanisms and	Island, Greece Xiaoyue Xin: Hydrochemical analysis
Mitigation Extreme flooding on tropical soils -	of surface groundwater interaction of
processes and engineering	a lowland river Yuke Hu: Hydrochemical analysis of
appraoches Impact of Mega-Droughts on Rivers,	surface groundwater interaction of a
Springs and Groundwater on Samos,	lowland river Environmental isotopes: Impact of
Greece	gases, soils and salinity

Research Topics

Hydrology and Water Quality

Processes studies and assessment of water quality, flow and solute transport modeling in different environmenal compartments. Tracers, hydrochemical and compartmental modeling, and other models of environmental flow dynamics are derived from hydrochemical and isotope data.

Enhanced Monitoring

The research addresses new monitoring and modeling approaches, improved monitoring devices and techniques as well as their efficient operation, methods for data analysis and programming including AI.

Hydrological Engineering

We work continuously on developing new aspects of hydrological engineering.

- Water Engineering Solutions -Enhanced Nutrient Recycling in Hydrological Basins
- Water Engineering Solutions -Adaptive Drainage Systems for a Changing Environment
- Water Engineering Solutions -Adaptive Management of Alluvial Aquifers

Hydrological Modeling

Secure and Sustainable Access to Water

Modeling and design of ecohydrological systems The objective is to quantify environmental and

for remediation, flood control, retention and recharge mangagment.

socio-economic factors and derive indicators for access to water.

Liste der fertiggestellten Bachelor- und Masterarbeiten seit 2018

From: https://hydro-wiki.de/ -

Permanent link: https://hydro-wiki.de/en/research/start?rev=1555171299



Last update: 2024/04/10 10:15