



NEW RESEARCHERS and DOMINATIONS



Professorship | Dr. Marko Keskinen

Keskinen has been appointed as an Associate Professor at the Department of Built Environment for the period January 2020 – December 2024. The field of the appointment is *Water Resources Management and Policy*.

Postdoc | Dr. Vilma Sandström

Sandström has her background in Environmental Science and Policy. Her research interests cover wide range of issues related to *food systems and their sustainability transformations*. Sandström is part of the SOS.aquaterra project.



DSc. Candidate | M.Sc. Anni Juvankoski

Juvankoski is also part of the Water and Wastewater Engineering research group. She studies the *occurrence of waterborne outbreaks* in developing countries focusing on the *impact of water supply infrastructure and geography*.

Master thesis worker | Elina Alanära

Alanära has her background in Environmental Sciences (University of Helsinki) and in Water Engineering (Aalto University). Her thesis aims at *refining the water planetary boundary by using environmental flow requirements*.



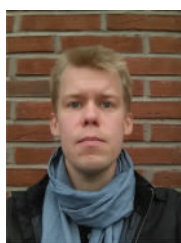
Master thesis worker | Esra Marvin

Marvin has a strong background in project management and consultancy. His thesis focuses on *the operation and maintenance practices of community managed water projects*, and the research takes place in rural Ethiopia.



Master thesis worker | Maiju Narikka

Narikka is working for the Water and Vulnerability in Fragile Societies (WATVUL) project. Her research focuses on *the impacts that changing climate is likely have on the extreme discharges and flooding in southeastern Mexico*.



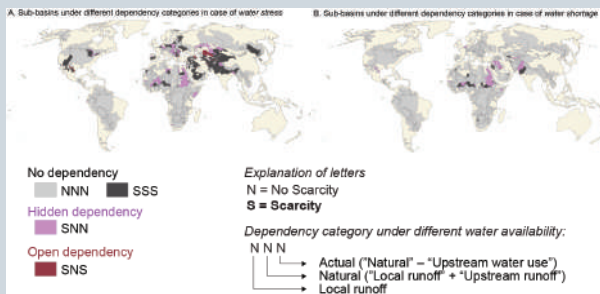
Project researcher | M.Sc. Roope Kouki

Kouki has his background in Water Engineering and now he's *analysing droughts by using different modelling programs*. In addition, he is training the WDRG-staff with the use of Google Earth Engine.



Research Assistant | M.Sc. Erik Salminen

Salminen is also working for the Global Water Partnership in Stockholm, Sweden. They are developing a *MOOC on Transboundary Freshwater Security and Water Diplomacy* is in the core of their work.



This thesis conducted a global analysis of the past, present and future projections of transboundary water scarcity and provides information to improve the understanding of the causes and factors involved. Within the thesis, a novel framework was developed to understand the evolution of transboundary water scarcity over time and to assess downstream dependencies on upstream water use.

The thesis was successfully defended on **February 21st 2020**, at Aalto University.

DOCTORAL DEFENCE

Dr. Hafsa Ahmed Munia

WDRG TRAVELS FAR and CLOSE



AGU 2020 Fall Meeting, San Fransisco

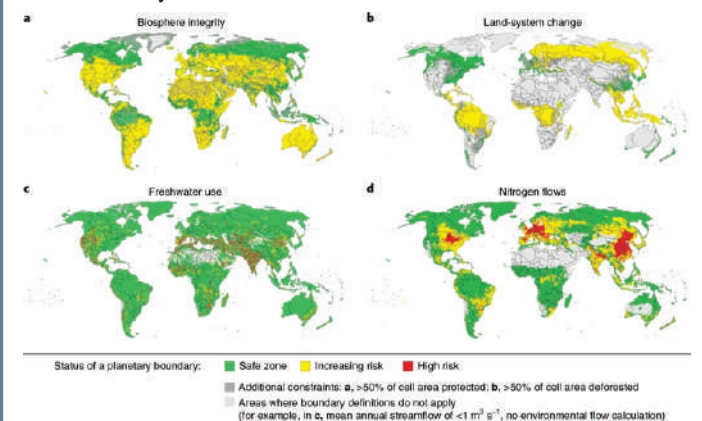
Dr. Mika Jalava and DSc. candidate Pekka Kinnunen visited AGU Fall meeting where they presented their work related to *Water costs of agricultural diversity* and *Future pathways for food systems and food trade*.

Maataloustieteen päivät 2020, Helsinki

DSc. candidates Johannes Piipponen and Elina Lehtikainen participated in the Maataloustieteen päivät, where they presented their work related to *Price margins of food supplies in Finland* and *Importance of agricultural inputs to the agricultural production*.

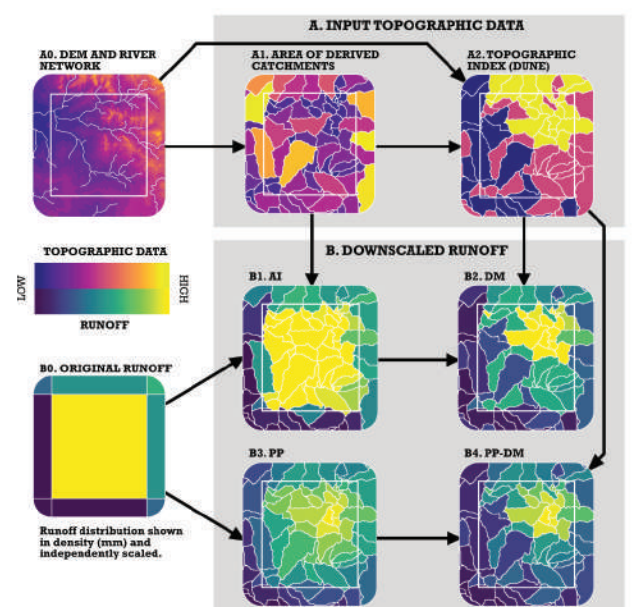
LATEST RESEARCH

Gerten et al. (2020). **Feeding ten billion people is possible within four terrestrial planetary boundaries.** Nature sustainability.



Heino et al. (2020). **A multi-model analysis of teleconnected crop yield variability in a range of cropping systems.** Earth System Dynamics.

Kallio et al. (2019). **Downscaling runoff products using areal interpolation: a combined pycnophylactic-dasymeric method.** MODSIM2019.



Niasse & Varis, 2020. **Quenching the thirst of rapidly growing and water-insecure cities in sub-Saharan Africa.** International Journal of Water Resources Development.

Niva et al. (2020). **China's sustainable water-energy-food nexus by 2030: Impacts of urbanization on sectoral water demand.** Journal of Cleaner Production.

BLOG ENTRIES



February:

Meeri Karvinen: **Career path – does it need to be straightforward?**

January:

Anna Chrysafi: **The daunting task of grocery shopping**

December:

Elina Lehtikainen: **Have you ever wondered how to actually put into practice your water engineering skills?**