

MAIJA TAKA

Postdoctoral Researcher

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Date of birth: 23 March 1985 in Helsinki | Sex: female



EDUCATION

2017 **Doctor of Philosophy** (Department of Geosciences and Geography, University of Helsinki, Finland)
2012 **Master of Science** (Department of Geosciences and Geography, University of Helsinki, Finland)

OTHER EDUCATION AND TRAINING, QUALIFICATIONS AND SKILLS

Statistical modelling R-program, Statistical analysis; CSC Puhti batch computing

Geoinformatics ArcGIS & QGIS software for spatial analysis; MapInfo for visualizing spatial data; Erdas Imagine for analyzing and visualizing satellite data; Life Cycle Assessment (SimaPro7 –LCA software)

Pedagogy and leadership 31 ECTS pedagogical courses in University of Helsinki; 27 ECTS Aalto Pedagogical training program; Aalto Leader Onboarding training: all modules completed; Project Management program: all modules completed

Laboratory equipment Agilent ICP-MS; Metro-hm ion chromatograph

CURRENT POSITION

2017- **Post-doctoral researcher, project manager** (Dept. of Built Environment, Aalto University)

Water and Environmental Engineering Research Group: **co-creation of doctoral education and water resources research** (budget 2 Me) 2017-2021. Immediate superior for six doctoral students and four master students per year; coordinator for a group of 18 researchers, co-creation collaboration with Aalto School of ARTS. Research on global water resources, urban water, and physical threats (Spatial and statistical approaches).

I am a postdoc researcher and a project manager in Aalto University. Currently, I am advising six PhD students and teaching landscape architects, and mentoring ca. 30 doctoral candidates in water and environmental engineering. I have experience in arranging international workshops and Finnish stakeholder events for academics. I was awarded with "Best presentation prize of the international conference on diffuse pollution and eutrophication" in International Water Association conference on Diffuse Pollution and Eutrophication in 2013. Additionally, I was a junior faculty member in Research, Art, and Impact Assessment in Aalto University, and founder of the Urban water division in the Finnish Water Association. I'm an active reviewer in several scientific journals of Elsevier and Taylor & Francis.

SELECTED PUBLICATIONS

19 international peer-reviewed articles published. Key articles:

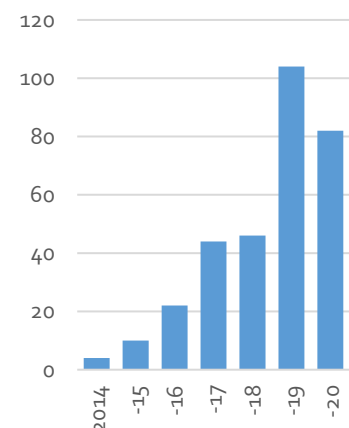
Kinnunen P, Guillaume JHA., **Taka M.**, D'Odorico P., Siebert S., Puma MJ., Jalava M., Kummu M. 2020. Local food crop production can fulfil demand for less than one-third of the population. *Nature Food* 4, 229-237

Varis O., **Taka M.**, Kummu V. 2019. The Planet's Stressed River Basins: Too Much Pressure or too Little Adaptive Capacity? *Earth's Future*, 7:10, 1118-1135.

Kummu M., **Taka M.**, Guillaume JHA. 2018. Gridded global datasets for Gross Domestic Product and Human Development Index over 1990–2015. *Nature Scientific Data* 5, 180004.

Taka M., Warsta L., Niemi T., Sillanpää N., Valtanen M., Kuoppamäki K., Kokkonen T., Setälä H. 2017. Spatio-temporal patterns of major ions in urban stormwater under cold climate. *Hydrological Processes* 38, 1564-1577.

Taka M., Aalto J., Virkanen J., and Luoto M. 2016. The direct and indirect effects of watershed land use and soil type on stream metal concentrations. *Water Resources Research* 52, 7711-7725.



Google Scholar summary:
25 publications | h-index: 11
316 citations | 69 co-authors