



IC4WATER Knowledge Hub on International Cooperation Who is Who

Motivated to enhance its international cooperation capacity beyond Europe, Water JPI launched the Coordination and Support Action (CSA) [IC4WATER](#) on January 17, 2017. IC4WATER CSA will continue for four years by placing the United Nations Sustainable Development Goals ([UN SDGs](#)) into its scope. Besides shaping the global development agenda for the upcoming decade, almost all 17 SDGs also embed pathways to communicate for international cooperation in the field of water. Overall, IC4WATER CSA is designed for elaborating new principles and tools for international cooperation in Research, Development and Innovation (RDI) domains of water in the scope of UN SDGs.

IC4WATER Knowledge Hub is one of the unique collective endeavors initiated by Water JPI in this frame. Knowledge hubs are envisioned as thematic networks consisting of selected researchers and experts operating within a defined area of research targeted at stakeholders. In addition to improved communication and networking with stakeholders and scientific community, the added value of the knowledge hub instrument includes establishing a critical mass of research and technological excellence, integration and sharing of knowledge to contribute development and implementation of evidence-based policies.

The success of the IC4WATER Knowledge Hub is contingent upon the joint performance of its experts, who compose the “Seed Group” of the Knowledge Hub. The Seed Group experts are nominated by their respective national funding agencies. Each expert displays a unique background in her/his scientific excellence area. By revealing the potential networks of interaction across their disciplines, the Seed Group experts will start with elaborating a thematic scope for the Knowledge Hub activities. The next step will be agreeing upon the types of desired and achievable outputs according to a two-year work plan for the period of 2019-2021. It is expected that the outputs of the Seed Group will include, but not be limited to policy briefs, state of the art reports, workshop activities and training materials.

This document presents the concise profiles of the IC4WATER Knowledge Hub’s Seed Group members in an alphabetical order.

Antonio Lo Porto (IRSA)



Antonio Lo Porto currently works at the Institute of Water Research ([IRSA](#)), Italian National Research Council. Lo Porto's research interests are in Water Resources and River Basin Management and in Water Diplomacy. He is Chair of EurAqua (the network of public research Institutes on Water in EU Member States), Chair of the Adv. Board of the Water JPI, and covers relevant roles in other high level International initiatives on water, i.e. the Strategic Coordination Group of the [EU WFD-CIS](#), [the China-EU Water Platform](#), [the EU Water Alliance](#).

Corinne Cassier-Chauvat (CNRS)



Holding the Director of Research role at the French National Centre for Scientific Research ([CNRS](#)), Corinne Cassier-Chauvat has authored over 70 publications in the fields of microbiology and biotechnology. Phytoplanktons, photosynthetic metabolisms, urea and water depollution, bioaccumulation and ecotoxicity of nanoparticles in water, toxicity of heavy metals and nanoparticles contamination, terpenes bioproduction, CO₂ capture and valorization are the priority areas in Cassier-Chauvat's research activities. In a recent project ([CalvinDesign](#)) supported by ANR she is working with a consortium to apply the principles and methods of synthetic biology to tackle the challenge of improving carbon-fixation in photosynthetic microorganisms. *Email:* corinne.cassier-chauvat@cea.fr

Fernando Nardi (WARREDOC)



Fernando Nardi is an associate professor in water resource and risk management and the Director of the Water Resources Research and Documentation Center ([WARREDOC](#)) at the University for Foreigners of Perugia. Nardi has over 15 years of experience in hydrology, hydraulics, hydrogeomorphology, terrain analysis, geographic information systems for understanding, modelling and managing water-related complex issues. Nardi has relevant experience as PI of international and national funded projects, academic training programs and applied research with leadership and coordinating roles in water risk, urban planning, water quantity and quality projects. His recent research efforts also pertain to development of open/big data, citizen science and geospatial/hydrologic data information platforms for addressing sustainable water security, human-floodplain and water-food-energy nexus. Recently he is partnering in the [Polder Roof](#) project team to create innovative roof systems to combat against urban flooding during extreme weather events. *Email:* fernando.nardi@unistrapg.it

Huub Rijnaarts (WUR)



Huub Rijnaarts is the Board Chair of the Graduate School at Wageningen Institute for Environmental and Climate research ([WIMEK](#)) and a board member at Amsterdam Institute for Advanced Metropolitan Solutions ([AMS](#)). Water technologies, resource recovery and creating resilient cities through living lab applications constitute the core of Rijnaarts academic research interest. Rijnaarts has been working with multidisciplinary teams for developing circular economy approaches to water-waste-energy nexus challenges in urban and (agro)industrial contexts in projects including [MetSol](#), [ENTIRE](#), [HOMBRE](#) and [ATES](#) among others. *Email:* huub.rijnaarts@wur.nl

Jeremy Jay Piggott (TCD)



Jeremy J. Piggott has been an assistant professor in the field of aquatic biology at Trinity College Dublin ([TCD](#)) since 2017. He has held research fellowships at various institutions in Singapore, Japan, UK, China and New Zealand, and authored over 30 publications to date. His research interest covers a range of topics in ecology, including determinants of biodiversity structure and function from genes to ecosystems, the combined influence of multiple anthropogenic stressors on communities and ecosystems, and the management and conservation of biodiversity and ecosystem services in the face of global change. The ongoing projects that Piggott is taking part are abbreviated as follows: [ExStream](#), [IMPACT](#), [SSNET](#) and [ESDecide](#). *Email:* jeremy.piggott@tcd.ie

John Dini (WRC)



John Dini is a research manager at South Africa's Water Research Commission ([WRC](#)). With his prominent experience in the fields of water governance, ecosystem services and wetlands management he contributes to effective implementation of national water strategies in South Africa. More specifically Dini involves in ecosystem classification, wetland rehabilitation and biodiversity mainstreaming projects across several basins of South Africa as a researcher. Aligning the national water strategies of South Africa with UN SDGs constitutes a major foundation of his recent work. *Email:* Johnd@wrc.org.za

Kati Vierikko (SYKE)



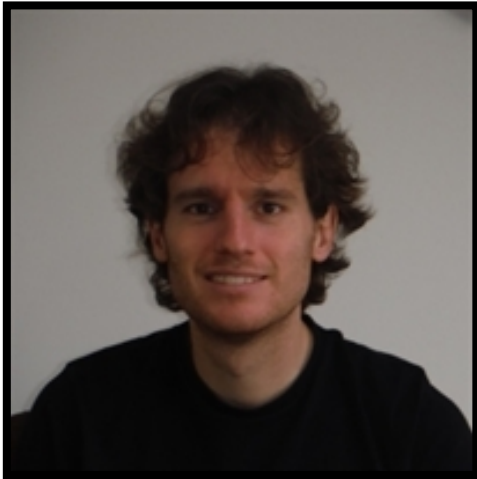
Kati Vierikko works as a Senior Researcher at the Finnish Environment Institute ([SYKE](#)), Finland. She holds a master degree in biology and a PhD degree in environmental sciences. She conducted an interdisciplinary research on trade-offs between sustainability components with a multimethod approach. Her research focused on blue-green infrastructure in cities and circular economy taking into account conflicting or complementing interests of stakeholders and the novel ways to promote public participation as a means to establish environmental justice. Vierikko currently carries her research as a consortium partner through the following projects funded by national and European programs: To Ally Technology, Nature and Society for integrated urban water management ([ATeNas](#)) and Mobility and Accessibility in rural areas and Supporting Circular Economy through land-use planning ([MARA](#)) Email: kati.vierikko@ymparisto.fi

Kevin G. McGuigan (RCSI)



Kevin G. McGuigan is the Director of the Royal College of Surgeons in Ireland's ([RCSI](#)) Solar Disinfection Research Group, which develops appropriate technology interventions -including solar disinfection- against waterborne disease for use in developing countries. His research specializes in running field studies to evaluate these technologies and he has completed such studies in Uganda, Kenya, Zimbabwe, South Africa and Cambodia. Kevin was recently awarded the 2019 UNESCO-Equatorial Guinea International Prize for Research in the Life Sciences for his cutting-edge research that contributes to combat waterborne diseases. [WATERSPOUTT](#) and [Paniwater](#) are two of the EC funded projects that he currently coordinates. Email: kmcguigan@rcsi.ie

Koen Wetser (WUR)



Koen Wetser is a researcher and teacher on non-conventional water sources and water reuse at the department of Environmental Technology at the Wageningen University. He is also project manager at the Water and Food group of Wageningen Environmental Research. He coordinates the Water Nexus research programme. In this programme, 15 PhDs are developing integral solutions for climate robust water provision in delta areas. (www.waternexus.nl). Koen also supervises PhDs in the Entire project in Vietnam where technological and institutional innovations are combined for context specific solutions for sustainable industrial water supply. He is also project leader on several projects related to the Water Energy Food Nexus and water for food. *Email:* koen.wetser@wur.nl

Lena Goldkuhl (LTU)



Lena Goldkuhl carries out the Project Coordinator task at the Department of Civil, Environmental and Natural Resources Engineering at Luleå University of Technology ([LUT](http://www.ltu.se)). Placing the stormwater management systems in to the center of her research area, Goldkuhl engages in transdisciplinary collaborations to develop participatory and inclusive approaches to enhance the capacity of blue-green infrastructures in urban areas. Within the European project consortiums; [GreenBlue Cities](#) and [Attract](#) she collaborates with researchers to come up with solutions that can improve the resilience capacity of European cities against excessive rainfall events. *Email:* lena.goldkuhl@ltu.se

Nonhlanhla Kalebaila (WRC)



Nonhlanhla Kalebaila is a research manager of water use and waste management at the Water Research Commission of South Africa ([WRC](#)). In addition to leading a portfolio of water research and advising to South African Government on developing national water RDI agendas, Kalebaila also authors informative opinion pieces for online media outlets to increase public awareness on various issues including the fate and impact of contaminants of emerging concern (CEC) in fresh water and marine ecosystems. Kalebaila possesses a PhD in chemical technology from University of Pretoria, specializing in water utilization. *Email:* nonhlanhlak@wrc.org.za

Rita Amaral (LNEC)



Rita Amaral has been a doctoral research fellow supported by FCT and she currently pursues her studies at the National Civil Engineering Laboratory ([LNEC](#)) in Lisbon. Her main professional area of interest is Infrastructure Asset Management (IAM) in water services. Complementary to her researcher profile, Amarel has been involving in consultation activities on strategic and operational planning for water supply systems. Through the project [iGPI](#) she collaborated with a research team to develop IAM tools for Portuguese water and wastewater utilities for self-assessing the long term sustainability of their facilities. *Email:* rmamaral@lnec.pt

Rita Lado (University of Porto)



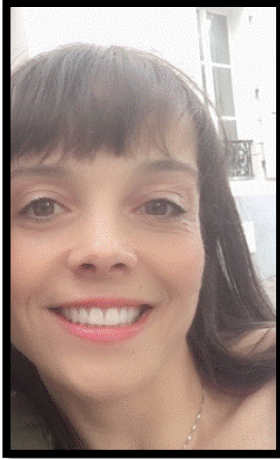
Rita Lado is a researcher at the Laboratory of Separation and Reaction Engineering – the Laboratory of Catalysis and Materials ([LSRE-LCM](#)) of University of Porto. She has authored over 45 articles and book chapters on various topics including, but not limited to water and wastewater treatment methodologies, advanced oxidation processes, determination of organic micropollutants via LC-MS/MS methods, eco-friendly sample preparation methodologies, and identification of by products in environmental matrices. [InSpeCt](#) (Identifying and interrupting micropollutants of EU concern by using Smart Carbon materials) and [SAMPREP](#) (Novel miniaturized sample preparation techniques for multi-class micropollutants determination in environmental matrices) are two of the recent projects that Rita Lado teams up with other researchers. *Email:* ritalado@fe.up.pt

Roberto Deidda (University of Cagliari)



Roberto Deidda conducts his research as a faculty member at the Department of Civil, Environmental and Architectural Engineering of the [University of Cagliari](#). Besides having published in over 40 internationally peer-reviewed magazines, Deidda has performed as the PI in several national and international projects that concern with hydrology and climate change by utilizing novel tools of modelling, downscaling and statistics. In one of the more ambitious projects ([CLIMB](#)) funded under FP7, Deidda partnered with European peers to develop an integrated monitoring and modelling system to quantify climate induced risks over the freshwater resources of Mediterranean region. *Email:* rdeidda@unica.it

Séverine Tomas (IRSTEA)



Severine Tomas is a research engineer in charge of the activities involving fluid mechanics. She studies multiphase flow linked with irrigation applications by numerical and experimental approaches. She has developed various advanced methodologies and a network of partnership to address specific aspect of irrigation: jet atomisation, atmospheric dispersion, thermal exchange, hydroelectricity, energy production, milli-channel and free surface flows encountered in irrigation. Her research activities addresses issues from water management to ecological continuity linked with agricultural and urban applications. As an example, in a recent project (ERA-NET Cofund EN-SUGI [ENLARGE](#) (2018-2021): ENabling a LARGE-scale adaptive integration of technology hubs to enhance community resiliency via decentralized decision support in various urban-food-water-energy nexuses), she tackles the concern raised by the Food-Water-Energy nexus. *Email: severine.tomas@irstea.fr*