



## VIU Summer School Critical Infrastructure Resilience



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[Prof. Albert Chen](#) is an Associate Professor at the [Centre for Water Systems \(CWS\)](#), University of Exeter with over 20 years of experience in Water and the Human Environment studies. He has developed a series of modelling tools to analyse the hydrodynamics and the consequences of flood disasters, including both direct and indirect impact to communities and critical infrastructure, as well as the cascading effects of failures. The assessments are therefore used to support decision making in risk management, implementations of mitigation measures, and planning of adaptation strategies in order to enhance societal resilience to flood hazards.

Albert is an [Alan Turing Institute Fellow](#) to apply data science and artificial intelligence in hydroinformatics research. He is also a UK Senior Expert in the [NERC Digital Environment Expert Network](#) to develop the thinking and practice around a 'digitally enabled environment', providing benefits for policy makers, businesses, communities and individuals. Albert is co-leading the Policy Action Group in the European Commission's [ICT4Water cluster](#) to review existing challenges and to identify the advantages and opportunities of integrated ICT applications within water sector. The outcomes will contribute to shaping policy recommendations at super-national, national, and local levels to facilitate the uptake of digital solutions.