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Eawag Seminar Invitation

Data Science in Water Systems

Speaker	Prof. Karina Gibert,
	Barcelona Technology School, Dep. Statistics and Operations Research, Spain
When	April 27, 11.00 – 12.00 a.m.
Where	Forum Chriesbach, room C20, Eawag Dübendorf
A batra at	
Abstract	Environmental data, in particular, water related data, are growing in complexity, size, and resolution.
	Addressing the types of large, multidisciplinary problems related with water management requires the
	ability to leverage available data and information to inform decision making. Successfully synthesizing
	heterogeneous data from multiple sources to support holistic analyses and extraction of new
	knowledge requires application of Data Science. In this paper, we present the origins and a brief
	history of Data Science. We revisit prior efforts to define Data Science and provide a more modern,
	working definition. We describe the new professional profile of a data scientist and new and emerging
	applications of Data Science within Water related Sciences. We conclude with a discussion of current
	challenges for Environmental Data Science and suggest a path forward in the specific context of water
	cycle related problems.