THE WEIZMANN INSTITUTE OF SCIENCE  
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE  

Faculty Seminar  

on Tuesday, Jan 26, 2021 
at 16:00  

https://weizmann.zoom.us/j/97604026721?pwd=SVZnd3NsQXBqNHFhOU04bTFNQVRhQT09  

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Towards Reliable Data-Driven Computations  

Abstract:  

Data-driven methods are increasingly being used in domains such as fraud and risk detection, where data-driven algorithmic decision making may affect human life. The growing impact of data and data-driven systems on society makes it important that people be able to trust analytical results obtained from data-driven computations. This can be done in two complementary ways: by providing result explanations so that the user understands the computation and the basis for the observed results; and by profiling and monitoring the data used in the computation, to make the results more reliable in the first place. 

In the first part of the talk, I will present the use of provenance -- information regarding the data origin and computational process -- for providing explanations of computational results. In the second part of the talk, I will present a method for data profiling using labels, as an example of a data-focused technique to facilitate an analyst building a reliable decision-making pipeline. 

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