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**Title:** Investigating the Generalization Ability of Neural Models through Monotonicity Reasoning

**Abstract:** Deep neural networks pre-trained with large-scale data such as BERT have a remarkable impact on natural language inference. However, recent studies show that these neural models might learn undesired biases or heuristics in the training data. It remains unclear to what extent neural models have the generalization capacity to perform arbitrary types of lexical and structural inferences. In this talk, I introduce and discuss my current work on investigating whether neural models can learn the generalization ability of monotonicity inference in natural language.