

## **NAtural LOfic meets MACHine Learning (NALOMA) 2021**

Workshop @ IWCS 2021, June 16 2021

**Invited Speaker:** Vered Shwartz

**Title:** Natural Language Inference: Challenges and Opportunities

**Abstract:** Deep learning based NLI models, and especially models based on large-scale language models, top the leaderboards and achieve human-level performance. Yet, when tested on real-world examples, they often make unhuman-like mistakes due to the fuzziness of the text representations and their lack of world knowledge.

One way forward is to combine the generalization capacity of neural models with the precision of symbolic knowledge. I will discuss approaches for teaching NLI models factual knowledge during training, as well as an approach that provides the models with factual knowledge during inference.

Finally, I will present future directions for working on real-world, less "clean" NLI tasks, involving making tentative inferences and recognizing partial entailments.