

## Information Bottleneck Theory

*IB and DL*

*IB and RL*

## Information Theoretical ML Theory

*PAC-Shannon*

*MDL*

*IB-method*

*PAC-Bayes*

*2<sup>nd</sup> Law*

*STL*

*PAC*

*1<sup>st</sup> Law*

## Machine Learning Theory

## Information Theory

*Symbolism*

*Connectionism*

## Artificial Intelligence

*Logic*

*Bayesian Inference*

## Language

*Math*

*Science*

*Rationalist  
View*

*Knowledge*

*Sceptical  
View*

*Intelligence*

## Epistemology