# Constraint Space: Anticipatory Learning Algorithms Through CompContrFt

The Leading Professor Miguel Angel Sanchez-Rey [*The Grandmaster*, *The Master of Space-Time]*
The Physicalist Program

## Abstract

Constraint space is a potentially fruitful breakthrough that has positive implications to developing efficient learning algorithms -- utilizing computational control methods and linguistic features, to achieve anticipatory learning for robotic adaptation.

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# Learning Algorithms and Constraint Space

It must seem that constraints are an impediment to accelerated learning methods. But limited constraint can prove to be advantageous to robotics and epigenetics (especially when producing efficient learning algorithms for anticipatory learning). Constraint space is not all that different. For constraint space is parameterized by linguistic feature -- giving order and structure to all spaces of possible constraints. By applying these linguistic structures, the learner can infer grammatical substance. So when giving the constraint of all possible linguistic sets (by constraint length and generalization), one inputs a collection of feature bundle strings as the learners data.

Constraint can be stated to be a natural language constraint (NLCon) -- in that, learning is not only an I (internal)-language of syntactical logical form (SynLF) but a powerplay between the language gene and the environment. Where efficient learning, through constraints of principle and parameter controls (of feature characteristic) -- or computational control feature (CompContrFt), leads to the application of NLCon, to achieve efficient sorting of all linguistic data with little or no syntactical error.

So when giving the set of all NLCon, order and structure to all spaces of possible constraints -- understood as the parameterization of linguistic feature, results in efficient learning algorithms that lead to anticipatory learning by adaptation. Understood as the achievement of a constraint space that potentially leads to the first anticipatory learning algorithm. An efficient learning algorithm that utilizes an innate computational feature system (that includes not only logical atoms and lexical sets but also sense data) that gives order and structure to the space of all possible NLCon through CompContrFt.

## Conclusion

The nature of constraint space is maximum efficiency. Maximum efficiency that may result in near perfect anticipatory learning quantum master decision algorithms. Without the set of all feature constraints to constraint space, efficient learning algorithms become an implausible endeavor. So the rule of thumb, is to proceed carefully in furthering knowledge of constraint space (least efficiency is to result in an uncontrollable catastrophe). Otherwise, AdSCon is not too far ahead.