# **Six Pieces with Cognitive Constraints**

### I. Stillness

For Solo Piano (2021)

Kenrick Ho

#### Preface:

The Six Pieces with Cognitive Constraints are inspired by Fred Lerdahl's work in musical cognition. All six compositions were generated by a Max patch that was specifically designed to satistfy the list of 17 constraints in Lerdahl's essay titled Cognitive Constraints on Compositional Systems. These constraints provide the basis for constructing a highly organised hierarchical structure for the Max patch to work with. The work as a whole explores how Lerdahl's idea of 'musical grammar' can be coded into a music generation program, and each individual piece is dedicated to pushing the boundaries of a particular aspect of cognitive constraint.

#### Performance Notes:

The pitches as notated should be played with rubato according to the spatial distance of given noteheads. Throughout the entirety of the piece, there are commas to indicate seperation between phrases. Each comma should last at least 5 seconds in duration. The sustain pedal should be held all the way through each phrase and released after the comma, leaving no moments of silence in between phrases. The tempo marking of  $\downarrow$  = 40 is for reference only, and it is up to the performer to decide how slowly the piece will be played.

c.a. 10'00"

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