Markov Patterns II

For Solo Marimba

(2022)

Kenrick Ho

Preface

The series of *Markov Patterns* are inspired by models of prediction and cognition in music psychology. All four compsitions were generated from a machine learning algorithm in Max/MSP which statistically analyses my original composition titled *Adrift*. The algorithm then learns the pitch and rhythmic relationships of the piece using markov functions, and is able to generated predictions with an accurate resemblence to the original piece. The outcome of the algorithm has been taken to form the basis of the four *Markov Patterns.* The set of pieces aims to explore the integration of statistical analyses and cognitive theories into a computational method for composition.

Performance Notes

There is no time signature, tempo marking, and barlines in the score. The rhyhtm, contour, and voicing of the notes are free to be interpreted by the performer as long as the overall duration of notes is loosely proportional to the rhythmic value of its given note head.

All notes are to be played in tremolandi. Transition between chords should be played smoothly wherever possible, unless an appoggiatura has been used. In that case, the tremolandi can be broken and the player may take as much time as needed to play the appoggiatura note as long as it is gesturally connected to the chord immediately after it.

ca. 4'30"

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Slowly (let it take the time it needs)

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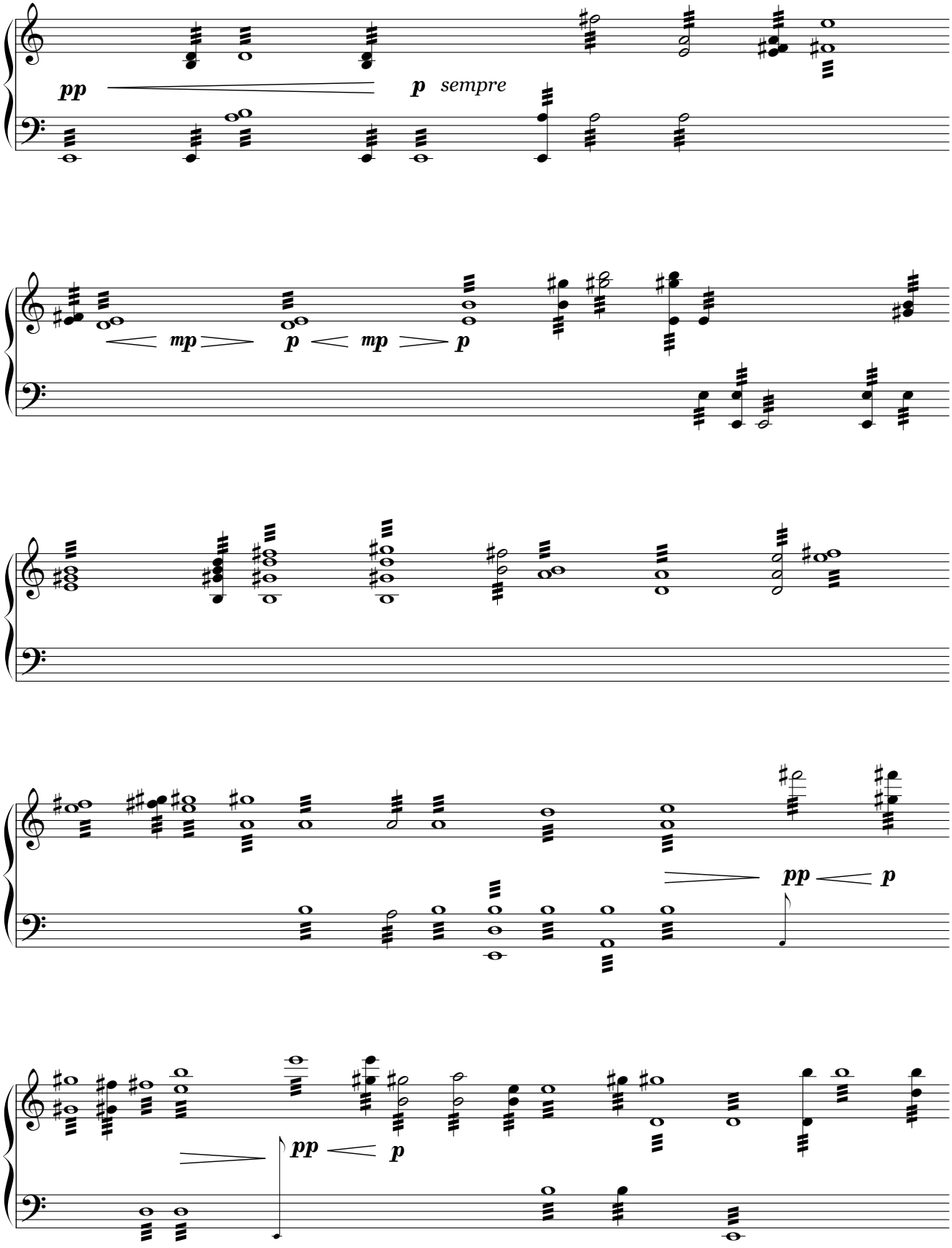
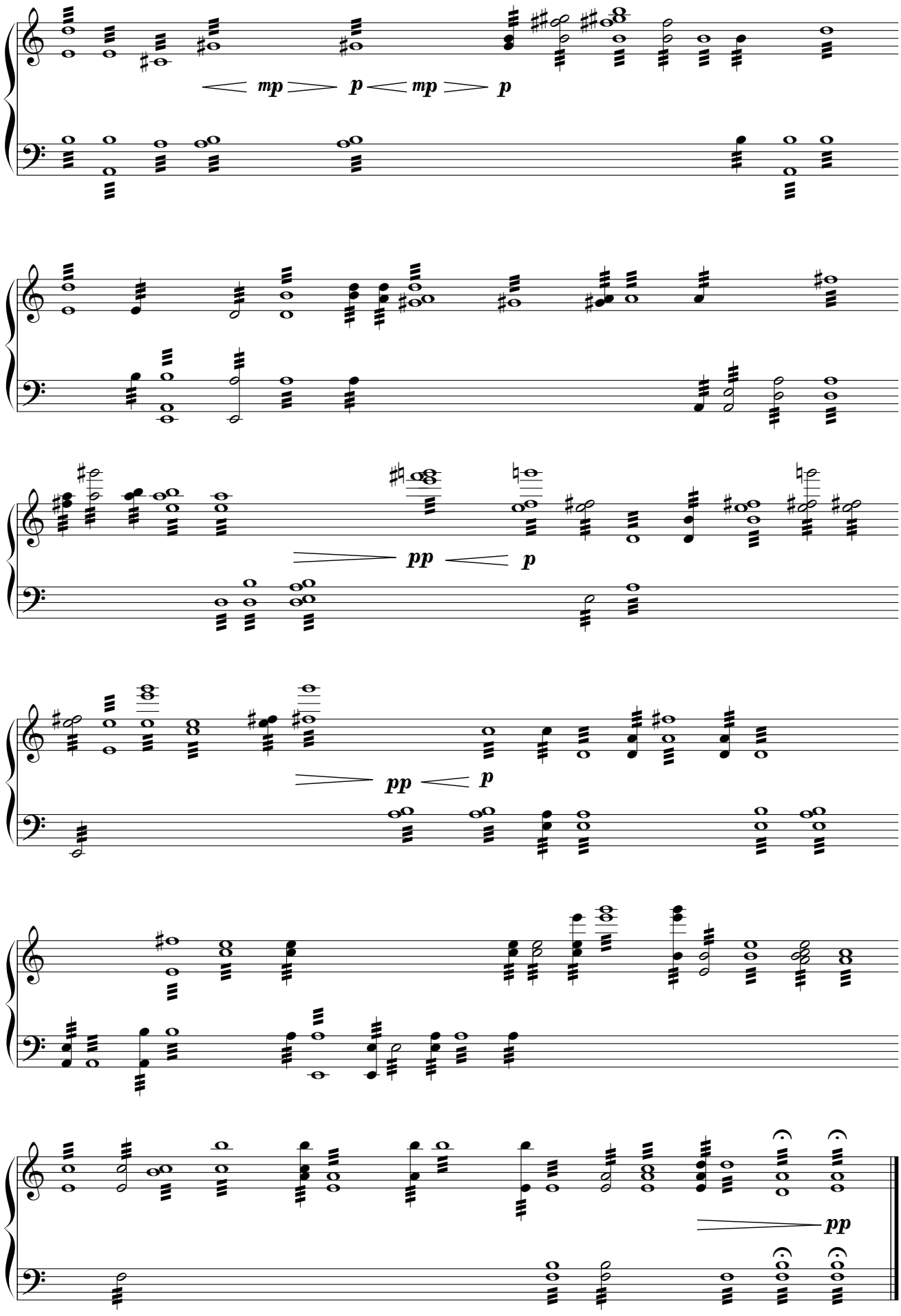
Increase or decrease tremolo speed as necessary

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