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Making Self-Report Ready for Dynamics: the Impact of Low Sampling Frequency and Bandwidth on Recurrence Quantification Analysis in Within-Person Ecological Momentary Assessment

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8 **Keywords: Complex Dynamics, Data Quality, Idiographic Methods, Recurrence Quantification Analysis**

1 INTRODUCTION

9 Intesive longitudinal data ha. We make a number of hypotheses

10 The problem we aim to elucidate is the degree to which information about the trajectory of a system
11 can be recovered using recurrence quantification analysis when data is degraded through ordinalization
12 and removal of time points. The overarching goal is to develop methods to recover aspects of a trajectory
13 empirically in intensive longitudinal studies using recurrence indicators after data is degraded. This is a
14 challenging problem, because data has a much lower bandwidth and sampling frequency than other fields
15 that use these methods. Therefore, every recoverable aspect can matter. The major elements to be examined
16 include the stability of several recurrence indicators under degradation, .

17 1.0.1

18 While . One limitation is that there is generally no way to study

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3.2 Level 2

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3.2.1.1 Level 4

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28 Equations should be inserted in editable format from the equation editor.

$$\sum x + y = Z \tag{1}$$

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SUPPLEMENTAL DATA

Supplementary Material should be uploaded separately on submission, if there are Supplementary Figures, please include the caption in the same file as the figure. LaTeX Supplementary Material templates can be found in the Frontiers LaTeX folder.

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The code, all additional material, and generated data for this study can be found in the [NAME OF REPOSITORY].

REFERENCES

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