Mood disorders are often characterized by persistent negative emotions (outside of their original temporal context). Emotions can distort memory for temporal order and duration [2].

**BACKGROUND**

- Are retrospective emotional biases evident following heterogeneous, temporally-dynamic emotional experiences?
- Do retrospective biases increase with sequence duration (i.e., suggesting limited time-emotion integration capacity)?
- Does better temporal memory (order and duration) prevent retrospective emotional biases?
- Are retrospective emotional biases and (lower) temporal memory associated with higher dispositional negativity?

**METHODS**

**Emotion Sequences Task**

*Positive & Negative movie clips*

“Overall, how did the sequence make you feel?”

**Temporal Memory Task**

“Drag and drop the movie images to rearrange them in their original order to your best ability.”

“Overall, how did the sequence make you feel?”

**Dispositional Negativity**

Temporal memory errors predict duration neglect in retrospective emotion

Temporal memory errors predict retrospective emotional biases

Temporal memory errors correlate with dispositional NA

**CONCLUSIONS**

- Using heterogeneous, temporally-dynamic emotional sequences, we observed a peak-end effect (without duration neglect) in retrospective emotion ratings (driven by negative ratings).
- Longer sequences produce a larger ‘end’ effect—suggesting limited time-emotion integration capacity.
- Emotional sequences associated with larger memory errors for temporal duration (i.e., remembered as having longer negative episodes) produced larger biases in retrospective emotion.
- Temporal duration errors are larger in individuals with higher dispositional NA, such that the duration of prior negative emotional episodes appears to be ‘dilated’ in their memory (suggesting temporal memory distortion).

**REFERENCES**


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**TEMPORAL MEMORY, TIME-EMOTION INTEGRATION, AND EMOTIONAL WELLBEING**

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