



Background

- Rumination has been wellestablished as a **cognitive risk** factor for major depressive disorder (MDD).
- Recent work has proposed that mind-wandering may facilitate rumination and thus risk for MDD.
- However, the temporal relationship between these processes remains unclear.
- We investigated the temporal relationship between mindwandering and rumination.

Methods

PARTICIPANTS

 82 young adults with remitted **MDD** or **no** mental disorder

PROCEDURE

 Ecological momentary assessment of mind-wandering and rumination 3x/day for 1 week

DATA ANALYSIS

- Investigated whether mindwandering predicted subsequent increases in rumination or vice versa
- Examined moderators of this relationship
 - Depression history
 - Intensity of negative affect
 - Momentary impulsivity (e.g., "I made a 'spur of the moment' decision")

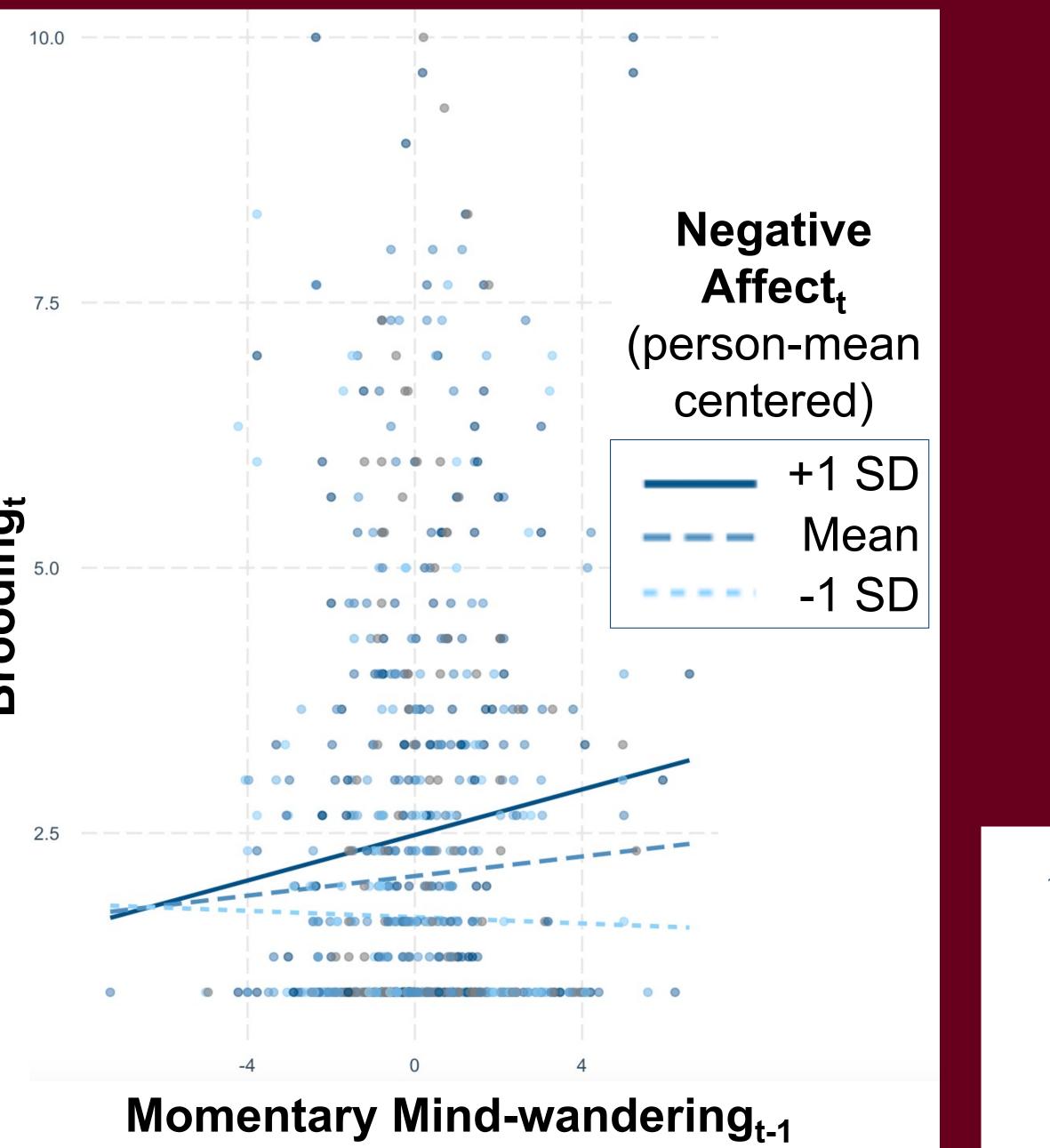
The mind wanders to dark places: Mind-wandering predicts subsequent rumination

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Mind-wandering predicted subsequent increases in rumination (β =.11), whereas rumination did not predict increased mindwandering (β =.08).

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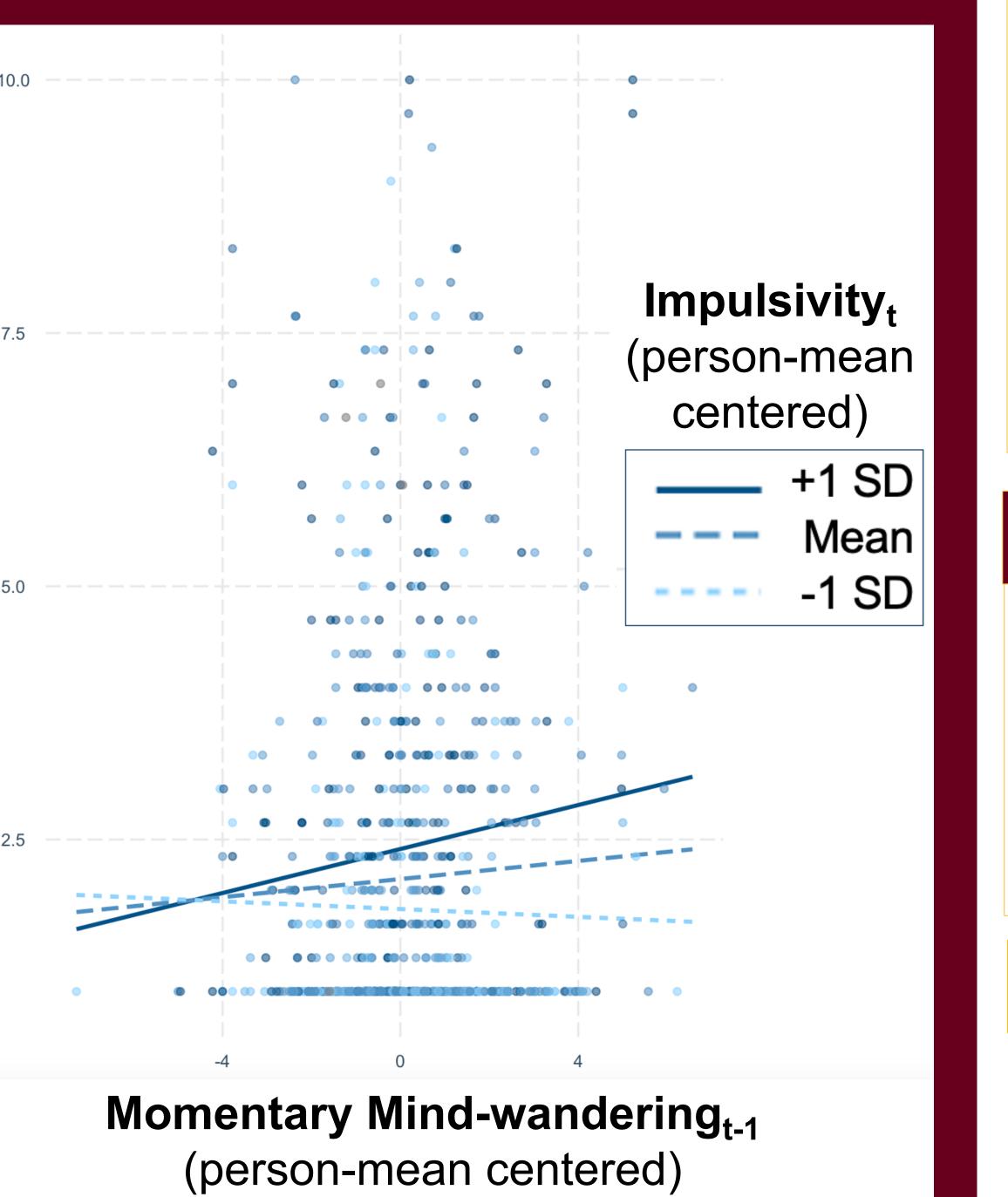
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(person-mean centered)

When individuals acted more impulsively compared to usual, they showed a stronger association between mind-wandering and subsequent rumination (β=.07).

When individuals experienced greater negative affect compared to usual, they showed a stronger association between mind-wandering and subsequent rumination $(\beta = .06).$





Results

 Compared to healthy volunteers, individuals with remitted MDD showed no difference in the relationship between mindwandering and rumination, in either direction (ps > .16).

 Compared to healthy volunteers, individuals with remitted MDD showed similar mean levels of brooding, but higher mean levels of mind-wandering (p<.05).

Conclusion

 Spontaneous mind-wandering may transition into rumination, particularly when individuals are experiencing more negative affect or behaving more impulsively than usual.

• When negative affective states are present, the mind may be more likely to dwell on salient negative content.

Funding





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