

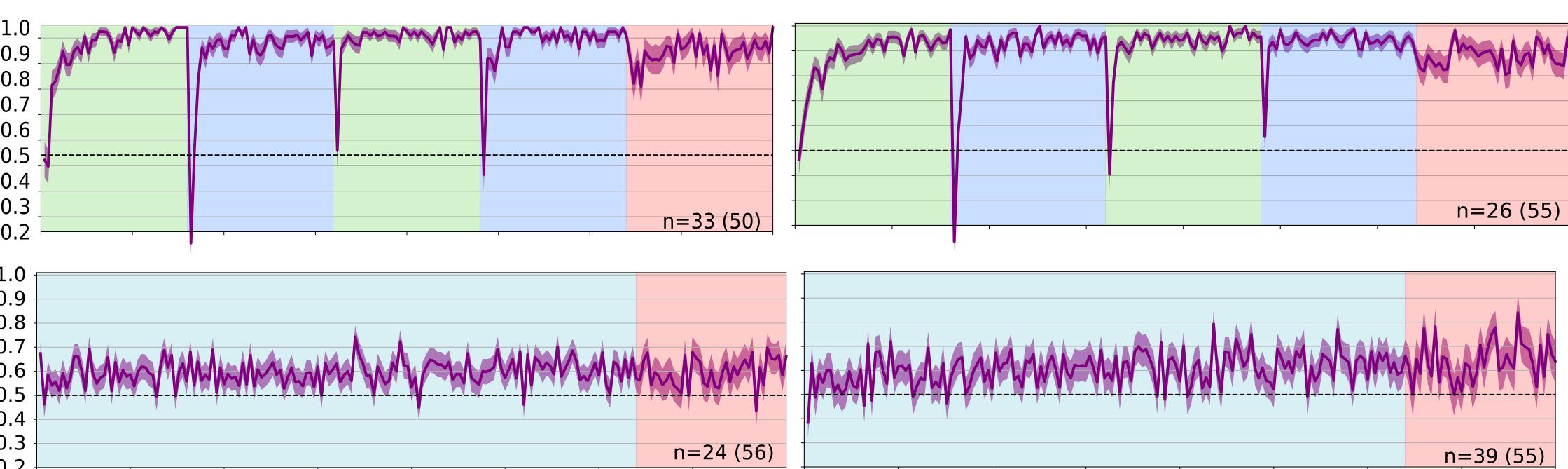
Curriculum Effects in Multi-Schema Learning Andre Beukers, Kenneth Norman



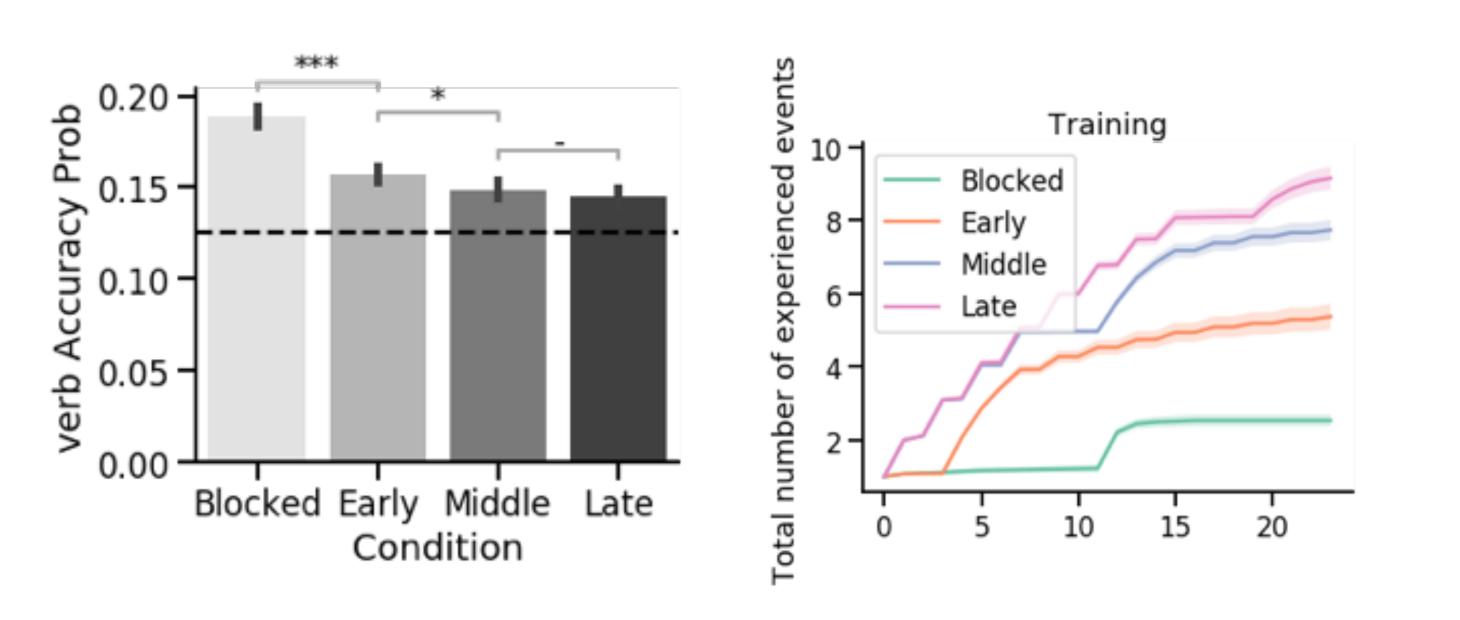
Event cognition theory

- Schemas are mental models used to make prediction. How are schemas learned and represented?
- Stability plasticity dilemma: when are two given events stored under the same or different schemas?
- Representational overlap allows generalization, but separated representations prevents catastrophic interference.
- How does the mind deal with the stability-plasticity dilemma?
- In event cognition theory, event segmentation (representational splitting) is driven by large prediction errors.

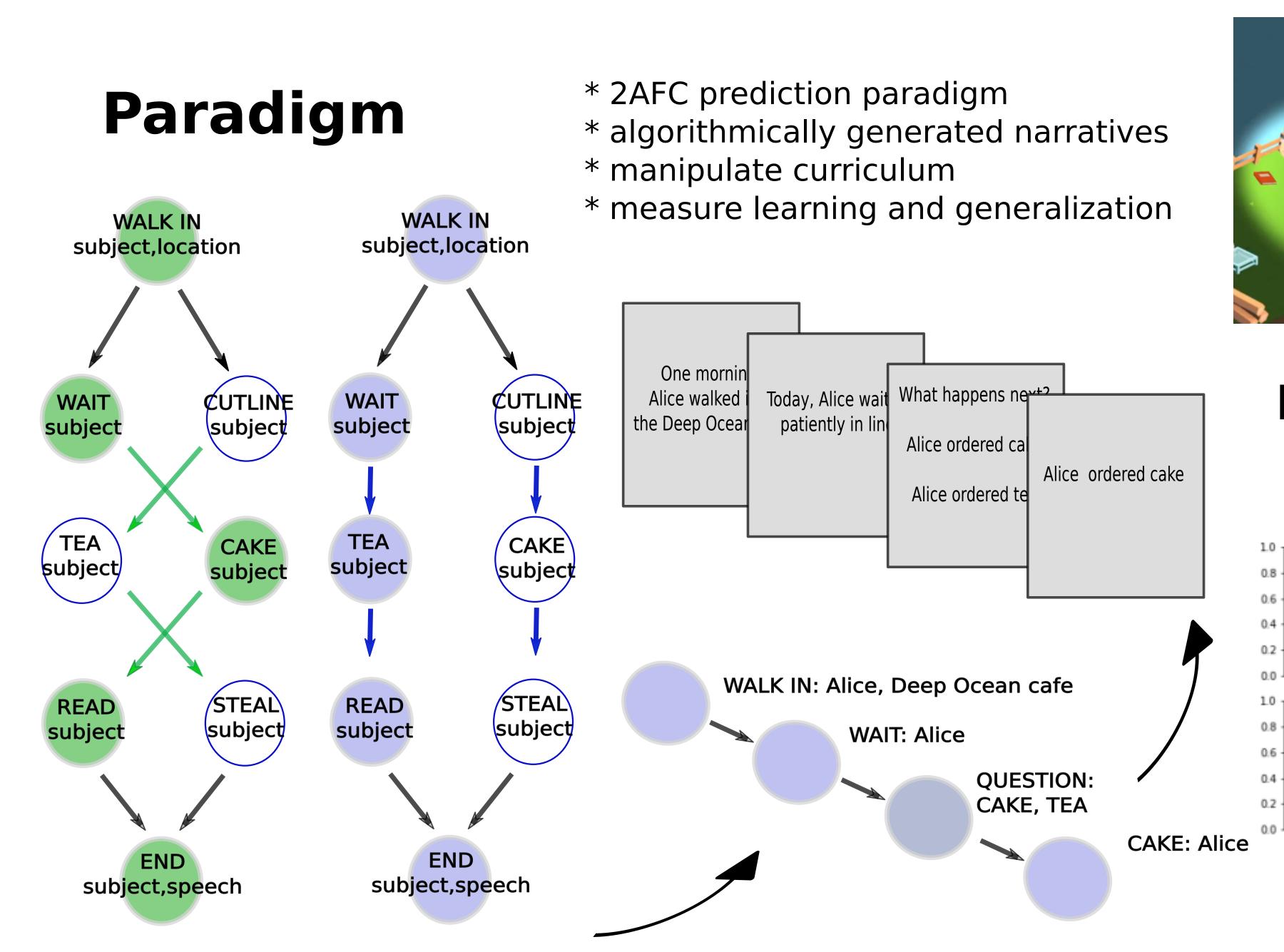
People learn in blocked but not in interleaved

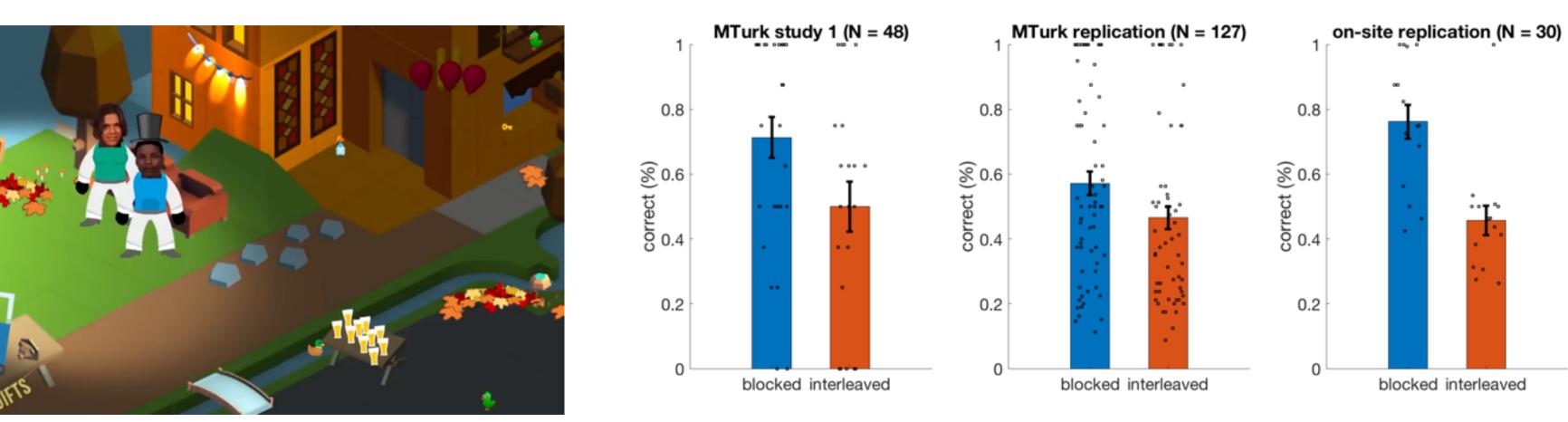


SEM prediction: inserting blocks before interleaving should drive large prediction errors necessary to carve nature at its joints

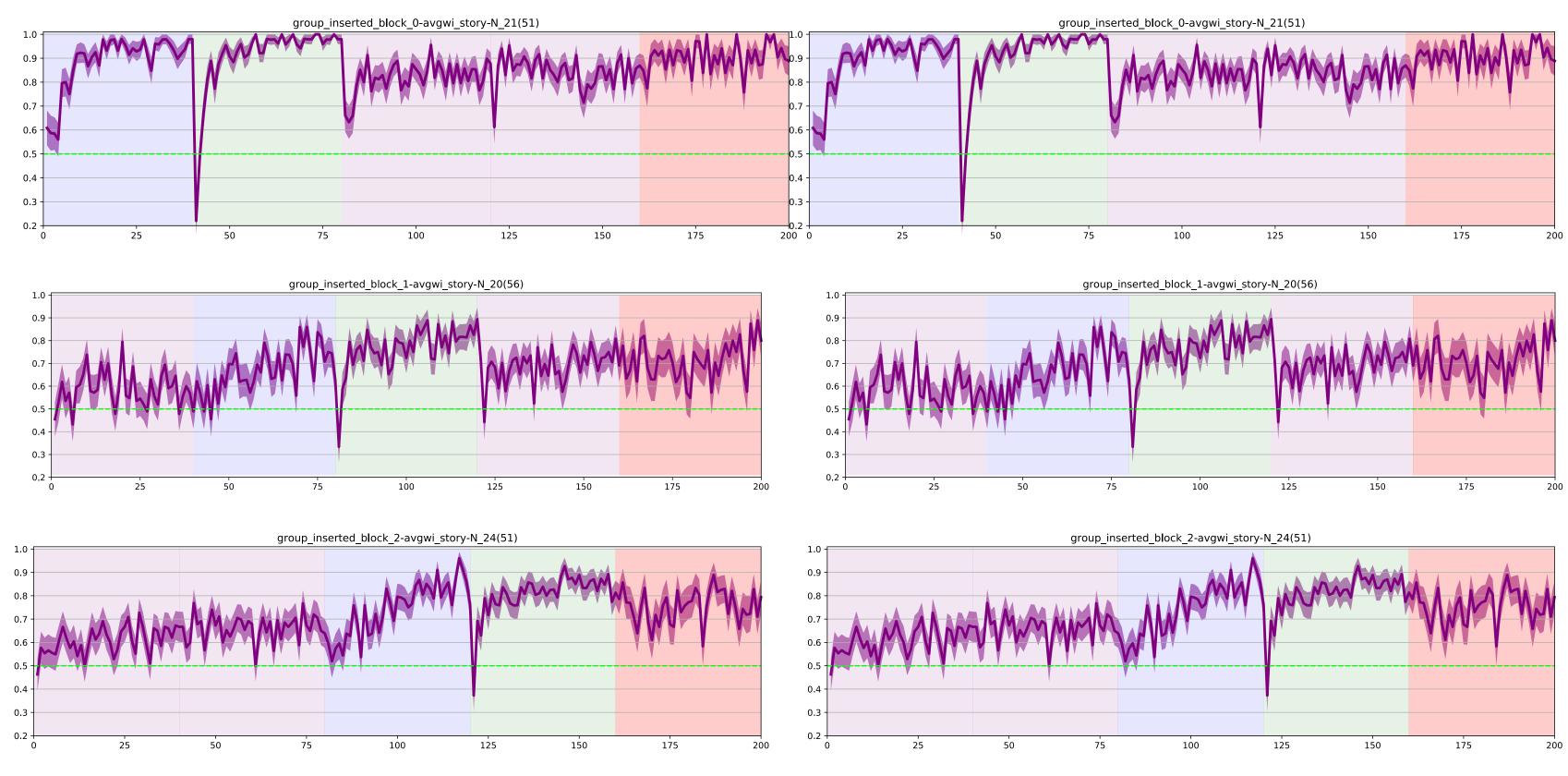


Conceptual replication: with naturalistic narratives



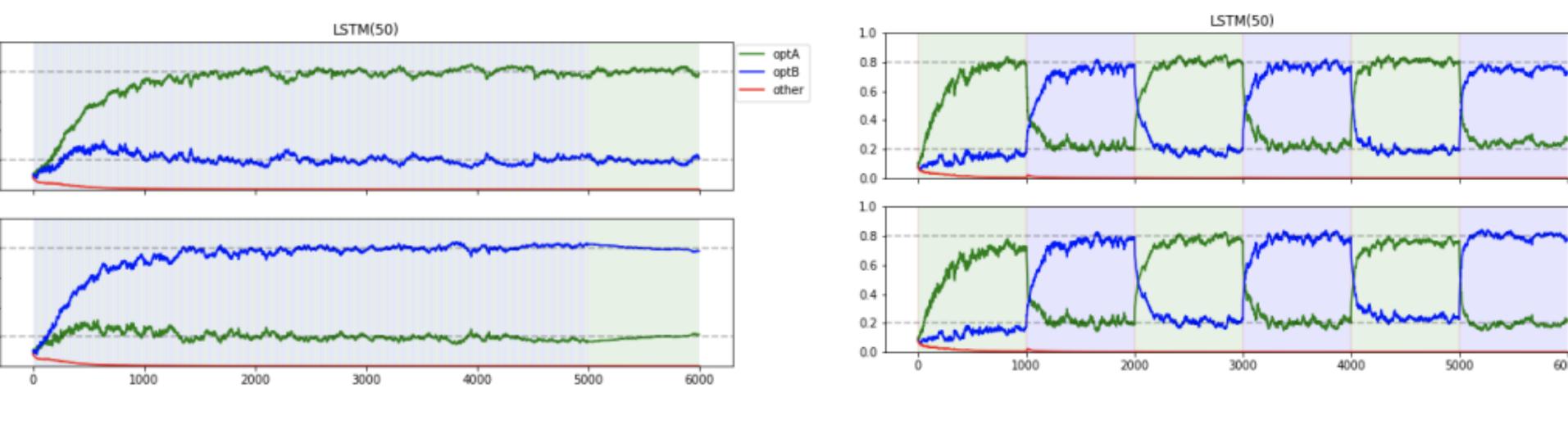


inserted blocks experiment confirms SEM prediction

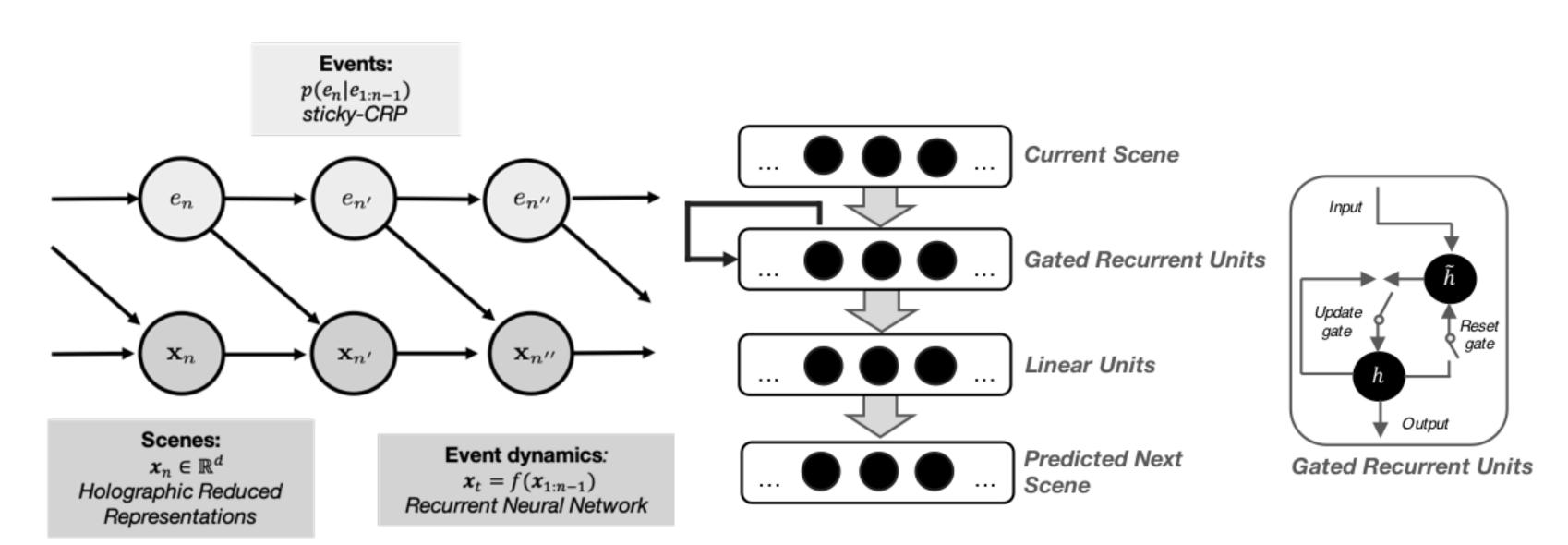


Discussion & Future directions

LSTM: catastrophic interference in blocked perfect performance in interleaved



Structured Event Memory [1]



Event cognition (SEM[1]): pattern of prediction errors drive appropriate segmentation in blocked

