

Rarity vs. Extremity and the Effect of Task Complexity in Decisions from Experience



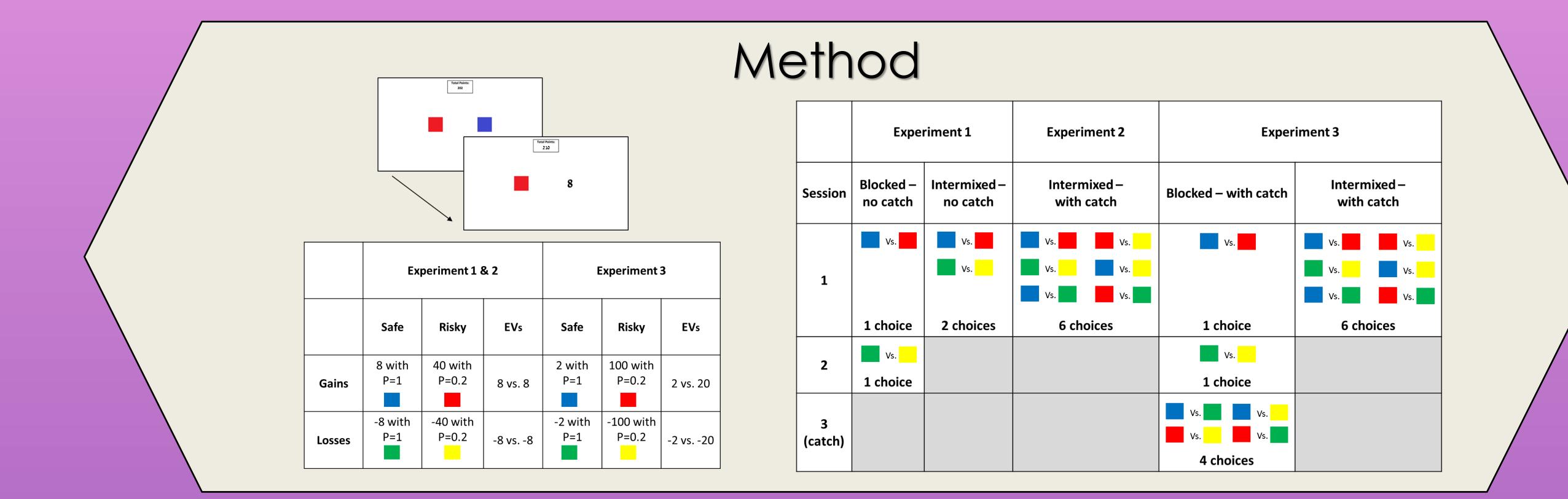
Yonatan Vanunu*, Emmanouil Konstantinidis**, Ben R. Newell*

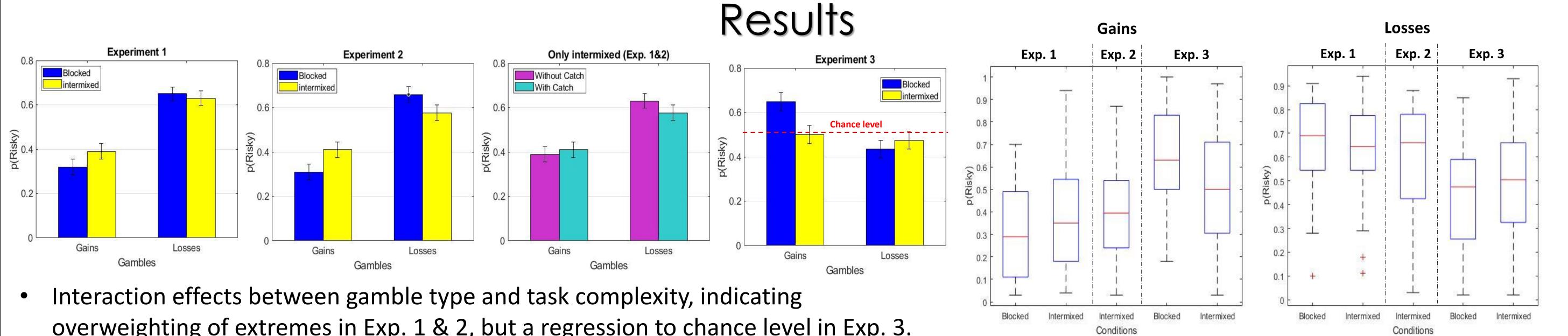
* School of Psychology, UNSW; ** Center for Decision Research, University of Leeds.

y.vanunu@ad.unsw.edu.au

Rationale

- Underweighting of rare events in Decisions from Experience (Hertwig et.al., 2004).
- Overweighting of extreme outcomes in equiprobable gambles within an intermixed design (Ludvig et. al., 2014).
- Extreme outcomes might be overweighted due to high demands on source memory (Vanunu et. al., 2018).
- How will a rare and extreme outcome be weighted in choice, and how might task complexity affect that weighting? \bullet
- Are risk preferences due to overwieghting extremes or could they be explained by a regression to chance level (Olschewski et. al., 2018)?





- overweighting of extremes in Exp. 1 & 2, but a regression to chance level in Exp. 3.
- Wider distributions under intermixed vs. blocked groups in all experiments.

Recency functions

The best fit regression lines for P(risky) for each trial after experiencing an extreme and rare outcome (Plonsky et. al., 2015).

