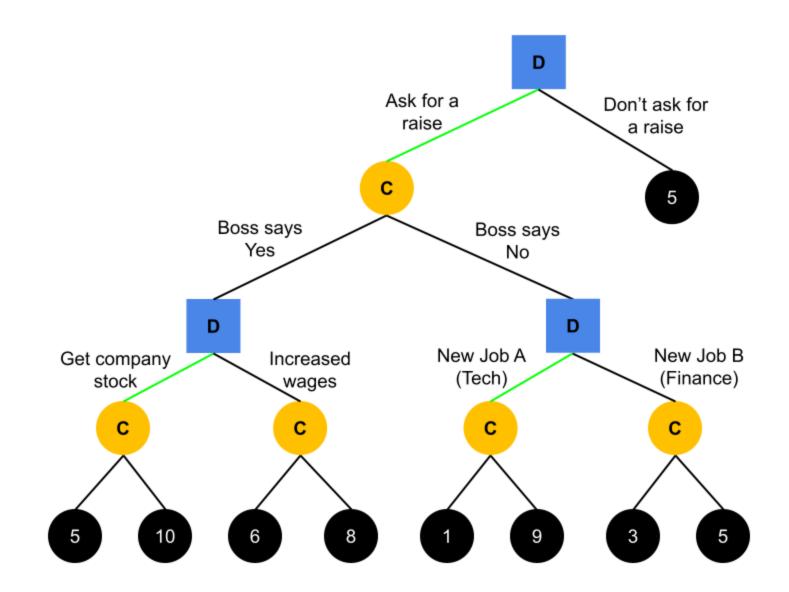
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INTRODUCTION

Decision-making does not happen in a void. Real-world decisions – such as asking for a raise – are dynamic and context-dependent. They are preceded by, and follow, other decisions.



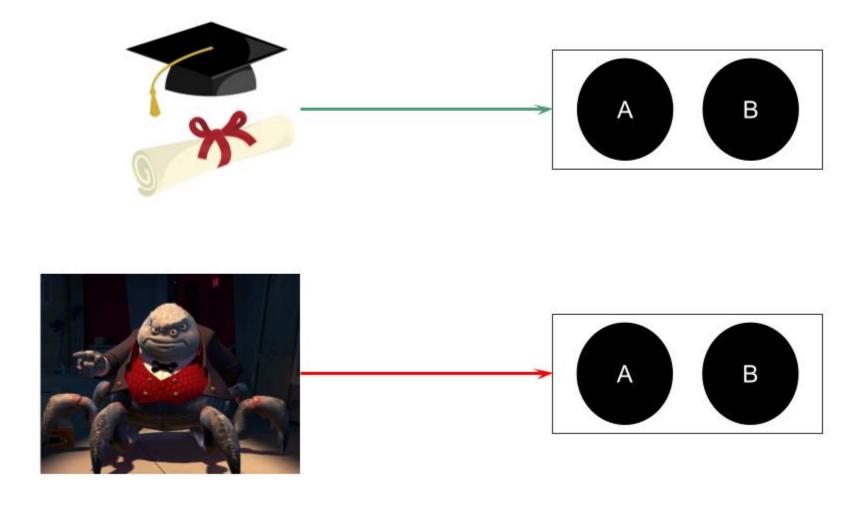
Backward induction is a normative model for optimally solving dynamic decision problems. However, backward induction requires that people adhere to a set of rational axioms, and past research has found mixed evidence for this. We focus on one axiom: Consequential Consistency.

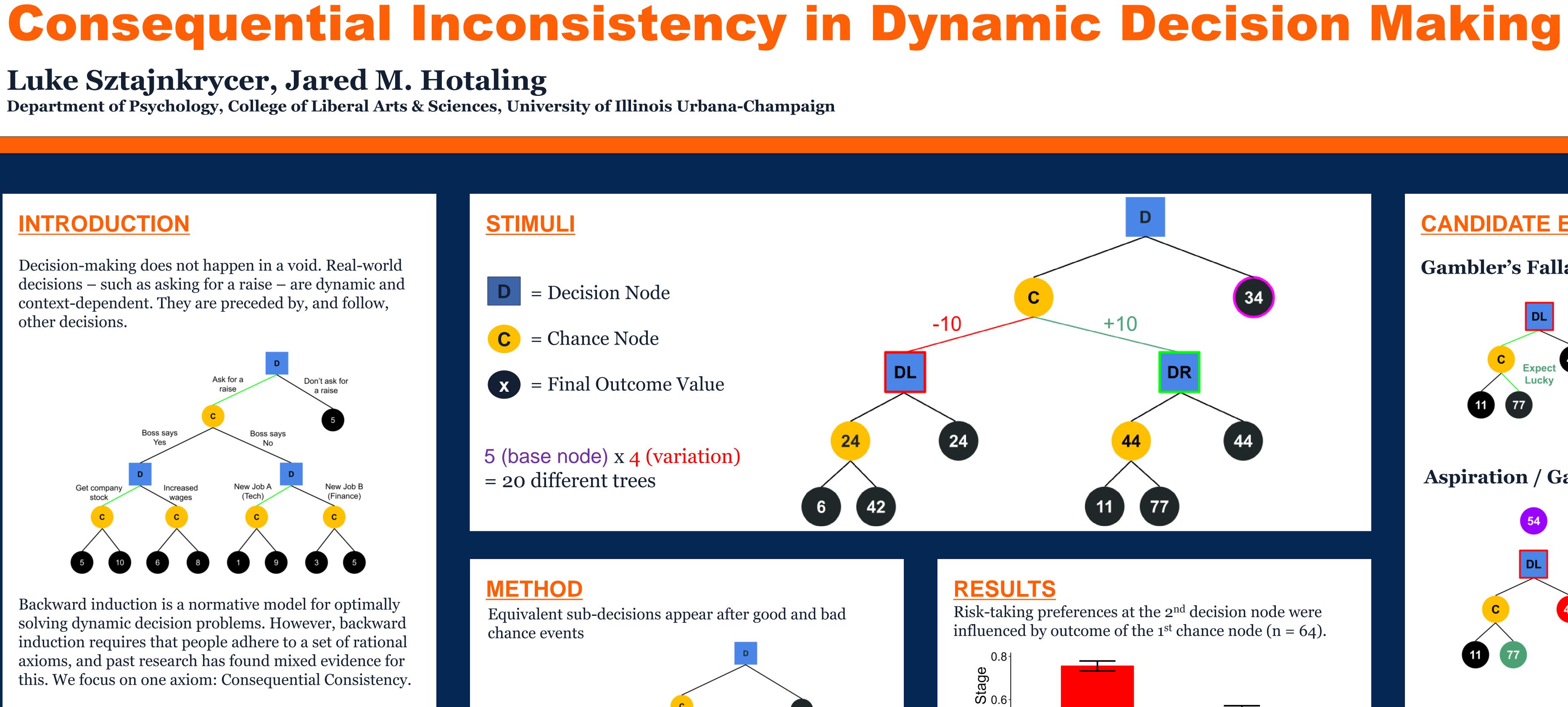
Consequential Consistency (Consequentialism) A consequentially consistent individual makes decisions based only on relevant, future outcomes.

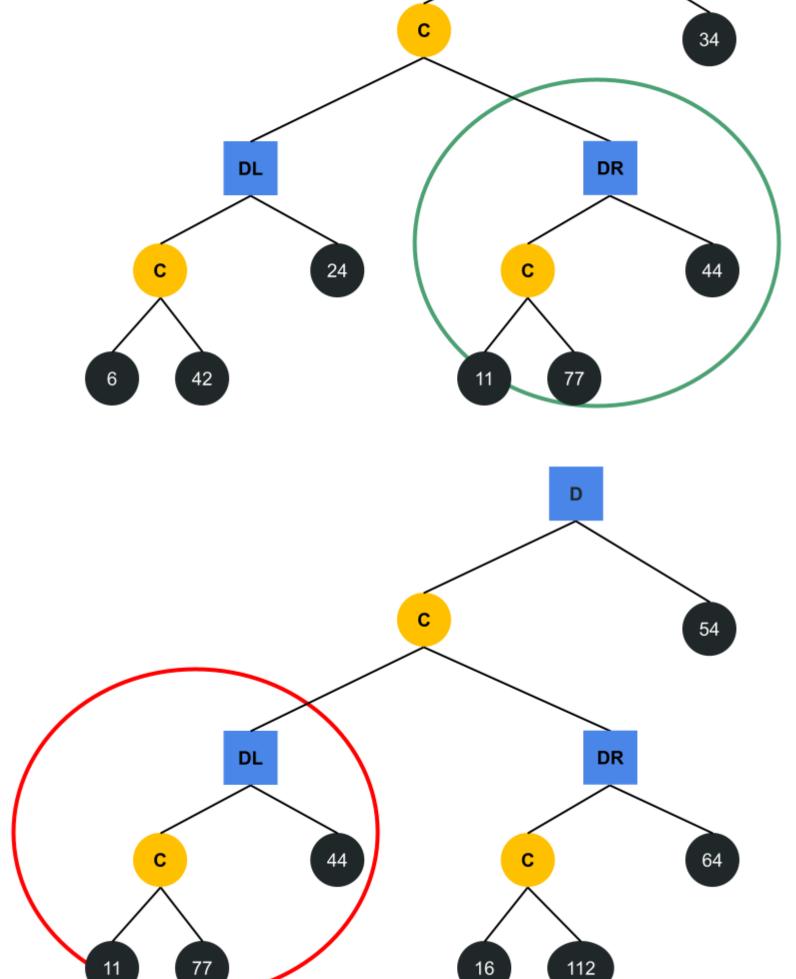
Research Question

Do people exhibit consequential consistency in multistage decision problems?

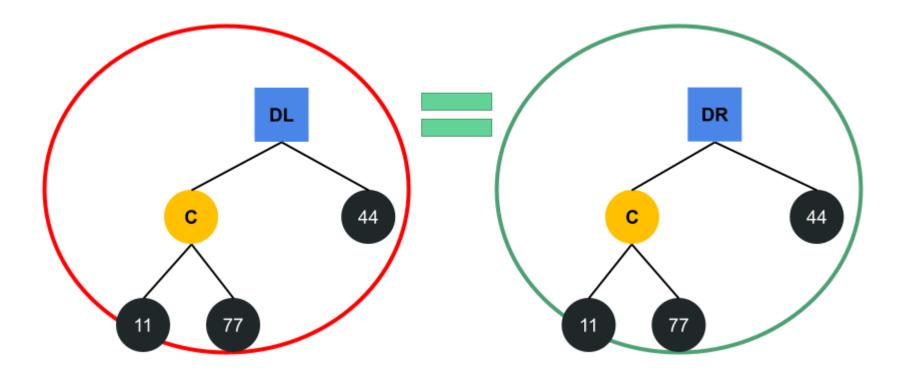
Backward induction requires planning one's future decisions, but consequentially inconsistent individuals cannot commit to these plans. Instead, their preferences will be affected by previous (inconsequential) events.

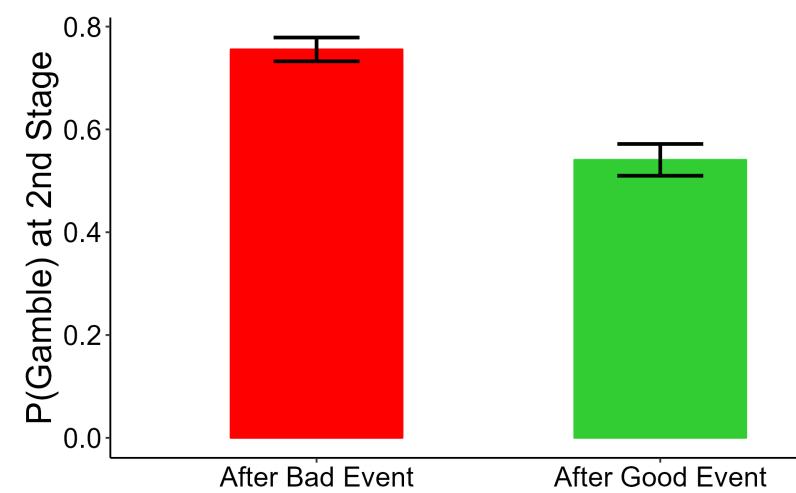






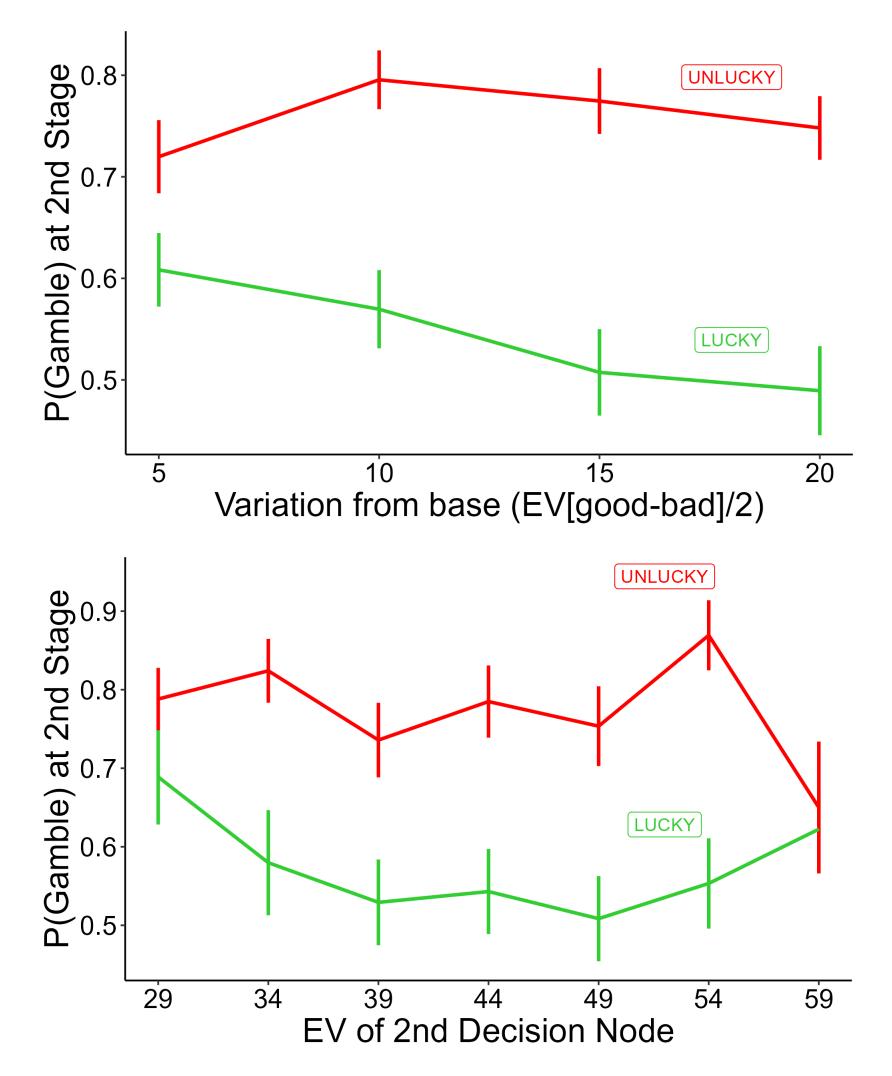
Consequentialism: Equal preference for risk in **both scenarios**





Luck at Chance Node 1

This effect is robust across levels of expected value and expected value variation



People are consequentially inconsistent.

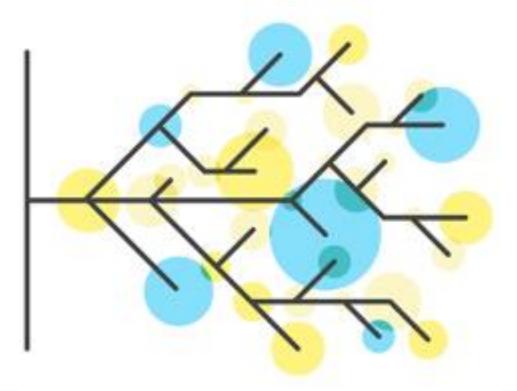
In general, risk-taking preference is greater immediately after experiencing a bad ("unlucky") outcome.

Not consequentialist \Rightarrow key axiom of backward induction is violated.

Thus, people must be solving multistage decisions in another manner. We are testing models of alternative strategies, including gambler's fallacy and aspiration.

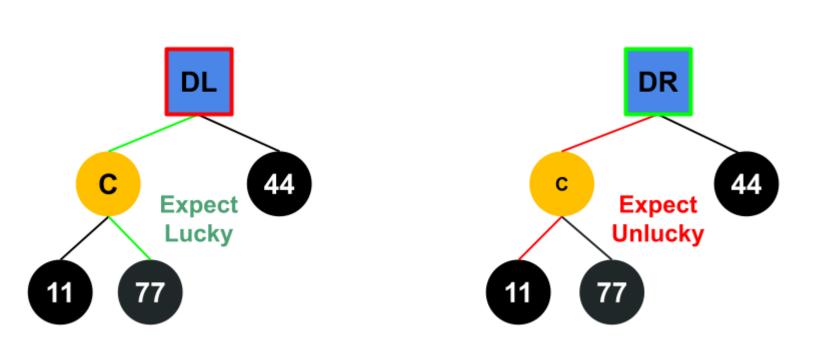
FUTURE DIRECTIONS 10 68 19 59 12 86 24 74



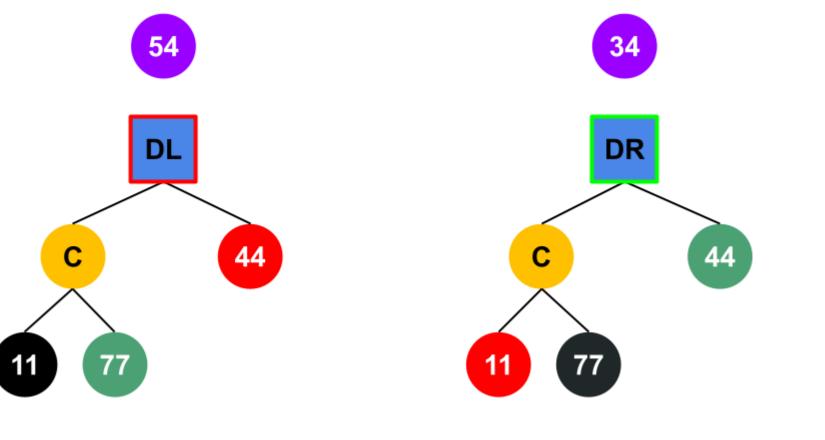


CANDIDATE EXPLANATIONS

Gambler's Fallacy



Aspiration / Gambling For Redemption



CONCLUSIONS

