

# Human-AI Cooperation: Leveraging AI Norm Reinforcement in a Public Goods Game

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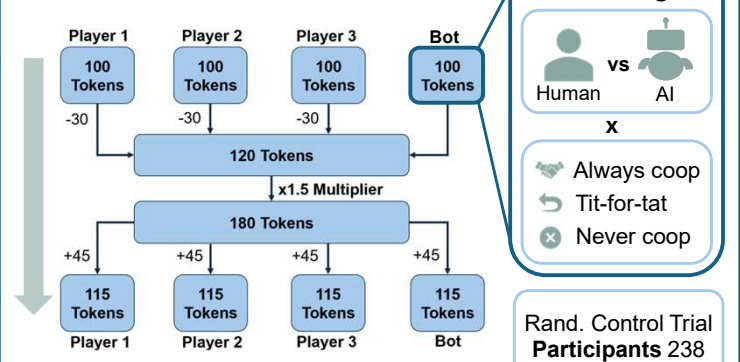
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## Research Question

How does the implementation of AI agents reinforce or erode cooperative norms in group settings?



## Public Goods Game

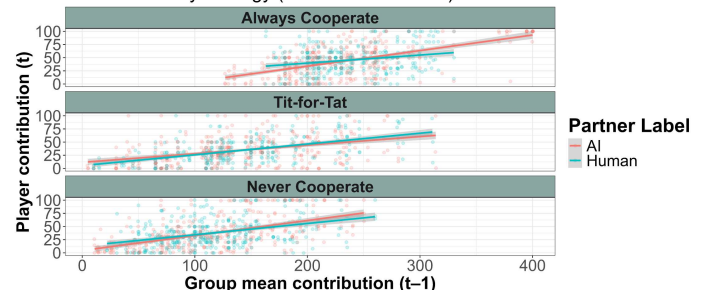


Our experiment shows AI teammates can spark as much and sometimes more cooperation than humans

Estimated Contributions in Public Goods Game  
Human vs AI by strategy (mixed effects model)



Round Contribution vs. Last-Round Group Mean  
Human vs AI by strategy (linear mixed effects)



- Algorithm Preference:** AI partners match human partners in most cases, yet unconditional cooperative AI triggers increased cooperation.
  - Go big or go rogue:** Unconditional cooperators inspire cooperation, while Tit-for-Tat elicits less than non-cooperators.
  - Group Influence:** People normatively adjust to prior group contributions across labels, with strategy driving the strength.
- Cooperation follows actions. Design AI for strategy, not identity.

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