

Catch the Pig! Understanding Interaction Between People and AI

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— Research Question

Will people cooperate differently with an AI agent based on how it is racialized?

— Methods & Design

- All Participants were recruited through Prolific
 - They were told they would be paid \$6.50 per hour but could be eligible for up to \$7.50 based on performance
- All participants were assigned to one of three conditions
 - Black condition, White condition, Control condition
- Participants cooperation with the AI was then measured by their actions in a modified version of the Stag Hunt Task



— Catch The Pig!

- Participants played a Modified version of the Stag Hunt Task, Catch the Pig
- Tasked with scoring as many points as possible
 - Two options for scoring points, either catching the pig or exiting the gray blocks on either side of the board
- Final score was used as one way to analyze participants cooperation



— Additional Measures

- Participants were also asked a series of questions to gauge their cooperation with the Pig
 - Questions consisted of asking about their strategy, AI's strategy and AI's level of intelligence
- Participants keystrokes, score per trial, and time before each movement were also recorded during trials



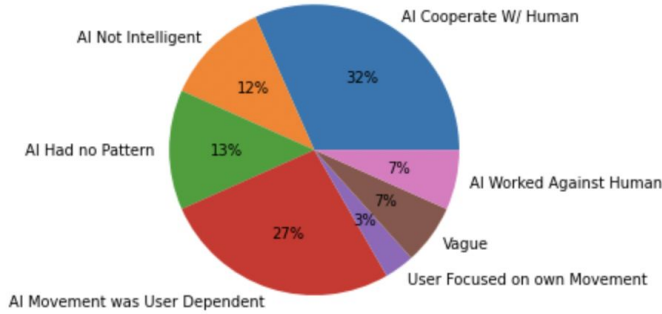
— Procedure

- Participants completed 15 trials
 - First 3 trials were practice
- After all 15 trials were completed participants were directed to a qualtrics where they answered the survey questions about their experience

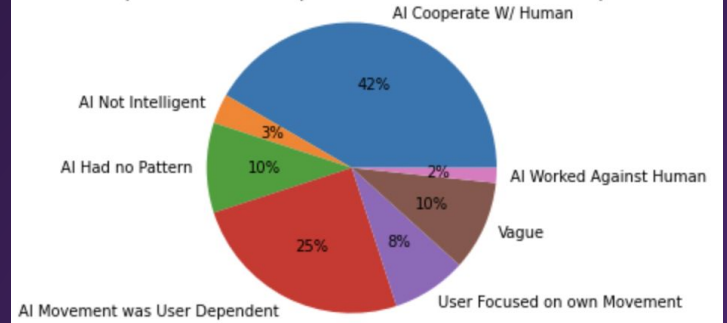


Results

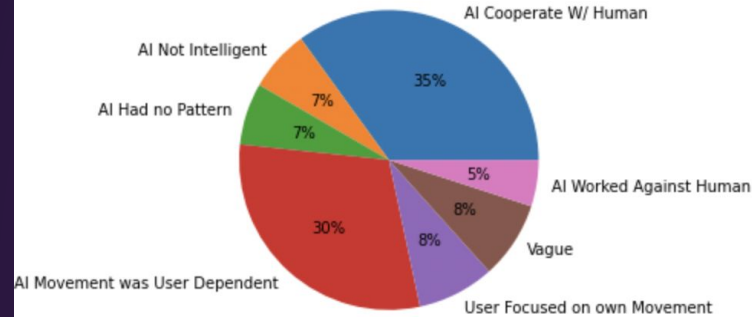
Responses from Participants in Black Treatment Group



Responses from Participants in General Treatment Group

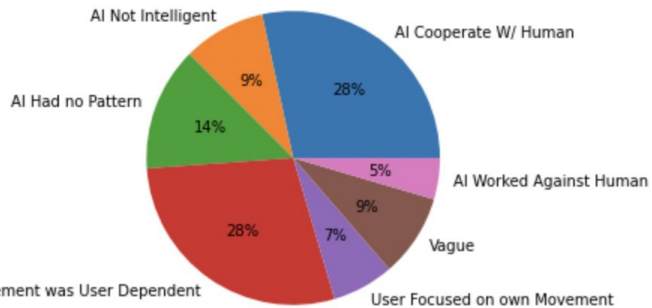


Responses from Participants in White Treatment Group

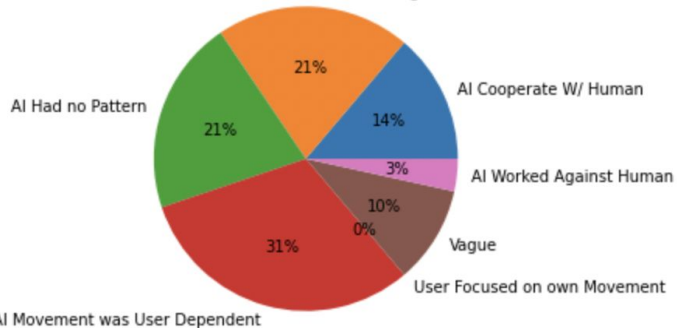


Results

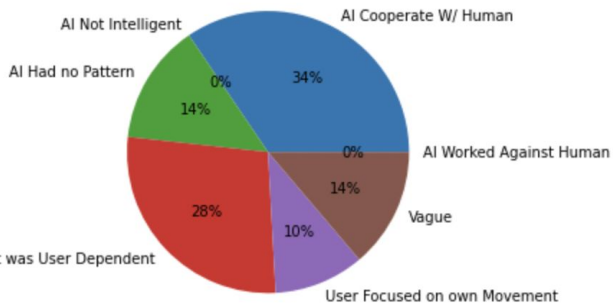
Responses from White Demographic Group



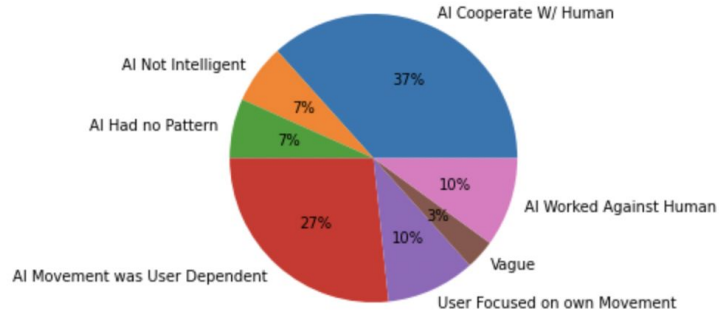
Responses from White Demographic Group in Black Treatment



Responses from White Demographic Group in General Treatment

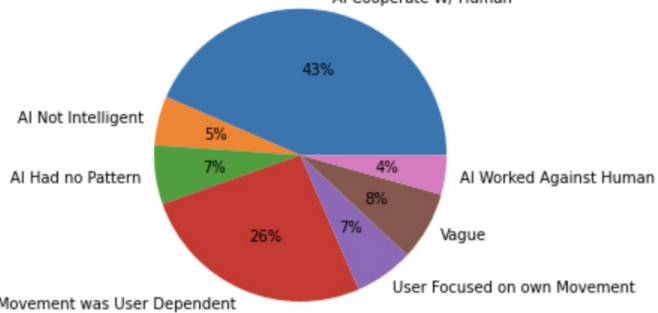


Responses from White Demographic Group in White Treatment

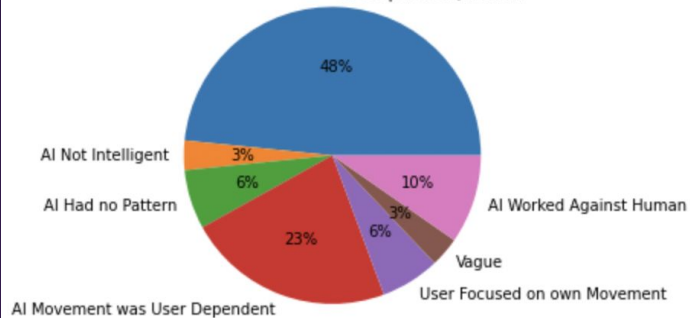


Results

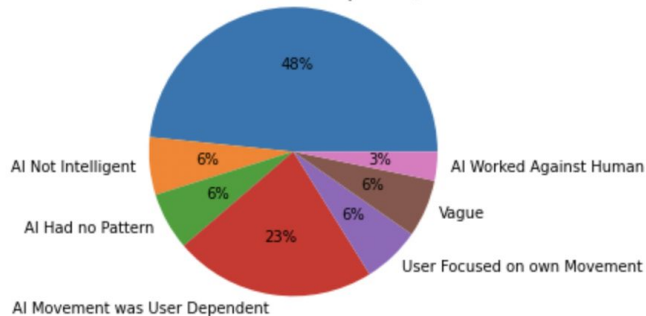
Responses from Black Demographic Group
AI Cooperate W/ Human



Responses from Black Demographic Group in Black Treatment
AI Cooperate W/ Human



Responses from Black Demographic Group in General Treatment
AI Cooperate W/ Human



Responses from Black Demographic Group in White Treatment
AI Cooperate W/ Human

