The Problem

Fraudulent survey takers and bots are a serious problem in online survey research. This issue is worsening and threatens the integrity and quality of data.



A recent study by the Maryland Department of Health and Market Decisions Research (MDR) illustrates how **people and bots are adapting to traditional methods of fraud detection and prevention and are becoming more difficult to stop.**

The original survey was conducted in Qualtrics and included a \$10 post survey incentive via email. Respondents were recruited through targeted Facebook and Instagram ads. The survey included standard data quality checks such as speed checks, attention checks, and use of a ReCAPTCHA score. Soon after the ads launched, **an unusual number of surveys were completed despite the security checks in place**.

Out of 5,978 surveys only 608 were valid completes.

How did we adjust?

MDR implemented a series of additional comprehensive security measures to catch fraudulent surveys. This included multiple consistency checks, checks for duplicate and suspicious emails, multiple logic check questions, IP address information, and open-end question checks.

The Bots are Taking Over! Lessons Learned from Battling Bots on

Want some extra cash?

If you're a **high school student**, click here!

Take a survey, and earn a \$10 gift card.

All the information you give us is kept private. Click to see if you are eligible.



This case study demonstrates: The challenges preventing bots and fraudulent survey takers from attacking surveys for monetary gain and bypassing most traditional

prevention methods.

- The issues of using a social media recruitment strategy for surveys.
- Suggestions for better and more consistent data security measures in online surveys.

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a Social Media Survey

cruitment strategy for surveys. Isistent data security measures

Breakdown of Data Verification and Quality Control Checks

Total surv

Incomplete questions a

Identified

ReCaptcha

Entry into c end of prev

Age of 19 v score <0.9

Speeders (

Duplicate a addresses

Failed logic

Quality cl

Implausib height val

Grade vs.

Failed age

Failed Cou

Validated

Discussion

Using social media as a recruitment strategy for survey research is a great way to reach certain populations but needs to be used with caution – especially with incentivized surveys. With the rise of more sophisticated bots and fraudulent survey takers, it is important to implement aggressive prevention strategies from the beginning in order to collect usable and valid data.

	# of Cases
eys completed	5,978
e (<20% of the answered)	114
as a likely bot	
a score <0.6	3,011
consent form from the vious survey	1,784
with a ReCAPTCHA	47
<120 seconds)	14
and suspicious email	107
c check question	182
hecks	
ole BMI, weight, or lues	37
Age discrepancy	8
e verification	43
unty verification	23
completed surveys	608

