MECHANICAL TURK (MTURK) FOR ONLINE RESEARCH

This guidance document is intended for investigators conducting online research using Amazon's Mechanical Turk (MTurk), based on the most up-to-date information regarding MTurk as of June 2016. Should you need additional assistance, please contact OPHS at 510-642-7461 or ophs@berkeley.edu.

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A. Introduction

Use of Amazon’s Mechanical Turk (MTurk) has become increasingly popular for conducting online research, as MTurk facilitates access to a large and diverse participant population at a relatively low cost to investigators. This guidance is intended to provide investigators with helpful suggestions for addressing issues of privacy and confidentiality that are specific to the MTurk marketplace, in order to conduct online research in accordance with 45 CFR 46.

For more information, please also review CPHS Guidelines on Internet-Based Research.

B. What Is MTurk?

MTurk functions as a virtual labor market where registered Workers complete online Human Intelligence Tasks (HITs) for pay. During registration, all MTurk Workers are required to electronically sign a Participation Agreement confirming that they are at least 18 years of age. Likewise, individuals must register as MTurk Requesters to post HITs and collect data from consenting Workers.

MTurk User Registration, Terms of Service, and Participation Agreement should be read in their entirety.

C. Is MTurk Anonymous?

1. Internal HITs

For internal HITs, MTurk provides a template for the construction of surveys which are run directly on Amazon (Mason & Suri, 2011). For the following reasons, data may be
identifiable when HITs are internally run:

(a) *MTurk automatically collects IP addresses.*  [MTurk’s Privacy Policy](https://www.mturk.com/requester/privacy_policy) states that IP addresses are automatically collected and analyzed by Amazon. In general, CPHS considers IP addresses to be potentially identifiable, depending on context.

(b) *Amazon has access to Workers’ personal identifiable information (PII) and survey responses.* Amazon has access to Workers’ account information – such as name, email address, and physical address – and survey responses (Mason & Suri, 2011).

(c) *MTurk Worker IDs are automatically linked to survey responses.*  [MTurk’s Terms of Service (ToS)](https://www.mturk.com/legal/mturk_to_s) do not allow for Requesters to directly access any PII from Workers, and all payment transactions are done using a 14-character alphanumeric code that is unique and specific to each MTurk Worker (Lease et al., 2013). This code, referred to as an MTurk Worker ID, does not offer any clue as to the identity of an individual Worker.

However, while Requesters do not have direct access to Workers’ PII on MTurk, at least one recent study has shown that Worker IDs are linked to product reviews, ratings, and PII on publicly-available Amazon Profiles. Therefore, for MTurk Workers who also maintain publicly-available Amazon Profiles, it may be possible to identify individuals based on the amount and type of information shared on his/her public profile.

2. **External HITs**

Requesters may choose to use MTurk as a recruitment tool, but embed a link within MTurk that redirects Workers to complete online surveys via a separate, external site managed by the Requester, such as Qualtrics. For Workers who choose to complete external HITs, survey data are never available to Amazon MTurk. CPHS may consider this type of survey data collection to be generally anonymous (meaning that no identifiers can be linked to the data, either directly or through a coding system) given the following criteria are met:

a. Survey questions do not ask for any PII or MTurk Worker IDs;

b. It would not be possible to identify an individual based on his/her survey responses;

c. IP addresses are not collected by the external site (e.g., Qualtrics); and

d. Any compensation code automatically generated by the external site for payment in MTurk cannot be used to link individual MTurk Worker IDs to survey responses (i.e. each participant receives the same completion code at the end of the survey instead of a unique completion code linked to survey responses).

External HITs are recommended for MTurk survey research, particularly when questions are intended to solicit information that may be considered sensitive or personal, or that may pose greater-than-minimal risk to participants. Note that investigators should keep in mind that Internet-based research can increase potential risks to confidentiality due to the possibility of third-party interception, and that no guarantees of complete confidentiality
or anonymity should be made to study participants.

For more information on how to set up an external HIT on MTurk using Qualtrics, please see: https://www.qualtrics.com/innovation-exchange/mturk/.

D. Glossary of Terms

Confidentiality: Pertains to the treatment of information that an individual has disclosed in a relationship of trust, and with the expectation that it will not be divulged to others without permission in ways that are inconsistent with the understanding of the original disclosure.

Human Intelligence Tasks (HITs): On MTurk, HITs are tasks posted by Requesters and completed by Workers, for pay.

Internet Protocol (IP) address: A numeric address assigned to every computer that connects to a network, or more commonly, the Internet.

Investigator: Any individual who contributes in a substantive way to the design, conduct, and/or analysis of the data of a study at or on behalf of the University of California, Berkeley.

Privacy: Control over the extent, timing, and circumstances of sharing oneself (physically, behaviorally, or intellectually) with others.

Requester: An individual who is registered on MTurk to post HITs for data collection (e.g., an Investigator or a Researcher).

Worker: An individual who is registered on MTurk to complete HITs for pay (e.g., a Participant or a Subject).

E. References

