

# Introduction to open-sourcing data

Matthew J. Salganik  
Department of Sociology  
Princeton University

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To wrap-up activity:

- ▶ Pay your MTurk workers
- ▶ document and release your data to your local organizer



[https://www.youtube.com/watch?v=66oNv\\_DJuPc](https://www.youtube.com/watch?v=66oNv_DJuPc)

Brief introduction into open-sourcing your data:

- ▶ Store your data in a simple format

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- ▶ Provide documentation
- ▶ Beware of privacy

Beware of privacy

# Beware of privacy

Risks come from combining data sources

$\underbrace{\text{Baking soda}}_{\text{Safe}} + \underbrace{\text{Vinegar}}_{\text{Safe}} =$

<https://www.flickr.com/photos/edenpictures/15962352215/>



# Beware of privacy

Remove personally identifying information and/or information that could be used for linking

## NIST definition [\[ edit \]](#)

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The following data, often used for the express purpose of distinguishing individual identity, clearly classify as PII under the definition used by the [National Institute of Standards and Technology](#) (described in detail below):<sup>[15]</sup>

- [Full name](#) (if not common)
- [Face](#) (sometimes)
- [Home address](#)
- [Email address](#) (if private from an association/club membership, etc.)
- [National identification number](#) (e.g., [Social Security number](#) in the U.S.)
- [Passport number](#)
- [Vehicle registration plate](#) number
- [Driver's license](#) number
- [Face, fingerprints, or handwriting](#)
- [Credit card numbers](#)
- [Digital identity](#)
- [Date of birth](#)
- [Birthplace](#)
- [Genetic information](#)
- [Telephone number](#)
- [Login name, screen name, nickname, or handle](#)

[https://en.wikipedia.org/wiki/Personally\\_identifiable\\_information](https://en.wikipedia.org/wiki/Personally_identifiable_information)

# Privacy and Security

## Myths and Fallacies of “Personally Identifiable Information”

<http://dx.doi.org/10.1145/1743546.1743558>

In this case, we recommend:

- ▶ Removing PII (name, email address, etc)
- ▶ Removing TurkID
- ▶ Coarsen age, geography, and race/ethnicity
- ▶ Coarsen timestamp
- ▶ Anything else?

For more on coarsening, see this code:

[https://github.com/compsocialscience/summer-institute/blob/master/2019/materials/day4-surveys/activity/mturk\\_data\\_cleaning.Rmd](https://github.com/compsocialscience/summer-institute/blob/master/2019/materials/day4-surveys/activity/mturk_data_cleaning.Rmd)

For more about de-identification, see

- ▶ *Bit by Bit*, Sec 6.6.2 “Understanding and managing informational risk”
- ▶ Lundberg, Levy, Narayanan, Salganik (2019) “Privacy, ethics, and data access: A case study of the Fragile Families Challenge”

In this case, you should share your data with your local organizer who can post it here:  
<https://github.com/compsocialscience/summer-institute/tree/master/2019/materials/day4-surveys/datasets>

When you start your projects next week

- ▶ plan to release your data
- ▶ plan to release your code

# Questions