Sharing of Data: Human Subjects Issues and Data Management Plans

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Overall topic

- Protecting human subjects (source of data)
- While sharing data with other researchers
- Archiving it (data loss, accessibility)
- How the system winds up working

- Caveat: truly risky research vs. no-risk research
Interested parties

• Researchers
• IRBs/Human Subjects Protection Offices
• Funding Agencies
• Subjects themselves
• Communities/Tribes
Motivations/Goals: Researchers

• Sharing at least results, maybe data, publicly for the benefit of science
• Or for the benefit of their own career
• Not sharing data to keep the ideas and publications for oneself (getting scooped, publishing the most out of one’s data, industry and applied research)
• Not sharing data because of lack of organization (filenaming, labeling, etc.)
Motivations/Goals: Human Subjects Offices

- Basic motivation: keeping data as private as possible so there can’t be any risk
- Federal regulations often unclear
- PI is source of info about risk, but not objective
- Data that’s completely private, or destroyed, can’t possibly pose a risk, so err on the side of caution
- Increasing future data collection not a problem
- Results in nonsensical assumptions about risk
Motivations/Goals: Funding Agencies

- Goal of data sharing
- (Not the same as dissemination by publication)
- Maximize impact of funding
- At least for NSF, maybe not for applied funding, especially defense
Motivations/Goals: Subjects (Individuals)

- Often don’t care about data sharing, only goal is getting the extra credit
- Students from Intro. classes: usually avoid sensitive content even during open conversation recording (but not always!)
- We usually play only short clips without obvious names
- What if we do put the whole corpus on the web or at LDC etc. (including full personal conversations, not short clips)?
Riskier situations: Different goals

- Speaker discusses sexual orientation, medical information, union issues, illegal activity, etc.
- Researcher leads speaker to discuss those
- Speaker gossips about local people (Tribal government, boss, etc.)
- Study of gay people who aren’t out
- Native American tribes that control members’ participation in research or control sharing of the language
- Oppressed minority group: dangerous for ethnicity to be known
Summary of Conflicting Motivations

• Researcher: Share results, maybe share data
• Human Subjects Office: Don’t share anything
• Funding agency: Share raw data
• Speakers: Usually don’t care, except riskier situations
• So what happens?
How IRB rules induce PIs not to ask permission

• It IS possible to get permission for a lot (risky research, sharing of non-risky data) at most universities
  – if risks and sharing are clearly described
  – and subjects give written consent to them

• PIs often assume they won’t be able to get permission, so don’t ask
Why PIs don’t ask permission

• Picky questions on standardized forms (e.g. ‘What is your plan for continuing data collection if subjects become incarcerated during the study’)

• Presuppositions of badly written forms (e.g. ‘When will data be destroyed’)

• Not realizing “N/A” or “Data will not be destroyed because…” is acceptable

• Fear/frustration: students, senior researchers
Possible Outcomes for data sharing

1. Researchers learn how to obtain permission -> share and archive raw data with not too much trouble

2. Researchers assume Human Subjects Office won’t allow sharing -> don’t attempt to share data

3. Human Subjects Offices do forbid data sharing -> no sharing
NSF Data Management Plans

- DMP requirement new, not well understood
- Requires a promise/plan/timeline to share raw data with other qualified researchers (not the public)
- Can be through a public archive, a web page, or “email the PI”
- Exceptions (e.g. PI does not own rights to data)
- Archiving and back-up requirement
Possible impacts of DMP

- DMP requirement encourages greater data sharing, discourages data destruction
  (Sharing has always been required)
- PIs may be able to use NSF panel summary as a tool with Human Subjects Offices
- DMP requirement pushes against the more careful Human Subjects Offices
The future and the ANPRM for the Common Rule

• US Federal Gov’t considering complete re-working of human subjects regulations
• Especially strong impact on low-risk/no-risk behavioral research
• 1000+ comments submitted
• Will take a few years to find out what happens and to see how it will be implemented
• Implementation is bound to be variable
ANPRM as proposed

- **Good:**
  - No-risk research: short form NOTIFYING Hum. Sub. Office of research, no real review
  - PI determines whether it’s “no-risk” (!)
  - Consent simpler, maybe just oral
  - Collaborative research across U.S. universities approved at only one university (data sharing simpler)

- **Bad:**
  - HIPAA regulations for all hum. sub. research from any US university
Conclusions

• Sharing of non-sensitive speech data is probably more possible now than many researchers realize
• DMP requirement may lead to greater sharing
• ANPRM could make data sharing much easier, but we don’t know yet.