

Data Management I: Authorship, Data Sharing, And More¹

Key Moments in Collaborative Research

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- A. In this workshop, “data management” is broadly construed.
- B. Our focus is on aspects of data management that are unregulated. Issues surrounding copyright and patents are covered in next week’s workshop.
- C. By “collaborative research,” we mean any research in which two or more researchers work together toward a common goal, and in which all of the researchers make an important, substantive contribution to the project. Not counted as researchers are people who provide assistance but do not make a substantive contribution; for example, someone who is hired to transcribe interviews but makes no other contribution to the research is not considered a part of the collaborative team.
- D. This bare-bones outline is intended to represent in rough chronological order most of the decision points in any collaborative research project. We will discuss the items in **boldface** first, and other items as time allows.
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| 1. The germ of an idea | 12. Writing a first draft of the report |
| 2. Talking it over | 13. Writing the final report |
| 3. Assembling a team | 14. Submitting the report for publication |
| 4. Assigning tasks | 15. Responding to reviewer’s comments |
| 5. Designing the research protocol or methodology | 16. Responding to correspondence based on the publication [§] |
| 6. Writing a grant application | 17. Storing the data [†] |
| 7. Administering the approved grant [*] | 18. Closing out the collaboration |
| 8. Paperwork and permissions (IACUC, IRB, etc.) [*] | 19. Sharing the data with members of the now-disbanded research team[§] |
| 9. Assigning authorship | 20. Sharing data with other researchers [§] |
| 10. Collecting data | 21. Initiating new research in the same general area |
| 11. Analyzing data | |

* These tasks first arise more-or-less when indicated, but continue throughout the project.

† In some cases, regulations or policies specify a minimum period for the storage of data.

§ These tasks are open-ended, with no set end date.

For clarity of presentation only one grant application and one publication are considered; in real life, some collaborations require more than one grant application and produce both publications and oral presentations. Note also that in any given collaboration some of the key moments listed here might well occur simultaneously, in a different order, more than once, or not at all. Some might also take place without one or more of the researchers being consciously aware of them.

¹The second of four workshops, “Working Together: Rules, Regulations, and Etiquette of Collaborative Research,” sponsored by the Office of Research and the University Graduate School and the Poynter Center for the Study of Ethics and American Institutions, Indiana University-Bloomington in February and March of 2003. Details on the series can be found at <http://poynter.indiana.edu/rugs/>.

Many of these tasks can be shared by team members, but some absolutely require that one person, commonly called the Principal Investigator or “PI”, take primary responsibility. Such tasks include administering the approved grant, taking care of paperwork and permissions, and responding to correspondence based on the publication.

E. Assigning tasks.

- Who will act as PI?
- What can each researcher contribute?
 - Trivial collaborations; routine collaborations; true collaborations²
- How can you be sure your prospective collaborators actually have the **expertise** and the **time** needed?

F. Assigning authorship.

- Authors get credit but also take responsibility
- American Sociological Association Code of Ethics³

15. Authorship Credit

(a) Sociologists take responsibility and credit, including authorship credit, only for work they have actually performed or to which they have contributed.

(b) Sociologists ensure that principal authorship and other publication credits are based on the relative scientific or professional contributions of the individuals involved, regardless of their status. In claiming or determining the ordering of authorship, sociologists seek to reflect accurately the contributions of main participants in the research and writing process.

(c) A student is usually listed as principal author on any multiple authored publication that substantially derives from the student's dissertation or thesis.

- International Committee of Medical Journal Editors⁴

Authorship credit should be based only on 1) substantial contributions to conception and design, or acquisition of data, or analysis and interpretation of data; 2) drafting the article or revising it critically for important intellectual content; and 3) final approval of the version to be published. Conditions 1, 2, and 3 must all be met. Acquisition of funding, the collection of data, or general supervision of the research group, by themselves, do not justify authorship.

G. Sharing the data with members of the now-disbanded research team.

- Data ownership; data access; data use
- American Sociological Association Code of Ethics

13.05 Data Sharing

(a) Sociologists share data and pertinent documentation as a regular practice. Sociologists make their data available after completion of the project or its major publications [with exceptions to protect proprietary agreements and confidentiality]. . . .

(e) Sociologists may ask persons who request their data for further analysis to bear the associated incremental costs, if necessary.

(f) Sociologists who use data from others for further analyses explicitly acknowledge the contribution of the initial researchers.

² Peter Cherbas introduced this typology of collaborative research at the first workshop in this series.

³ <http://www.asanet.org/members/ecoderev.html>. The American Psychological Association's statement on “Publication Credit” is very similar; see <http://www.apa.org/ethics/code2002.html>.

⁴ <http://www.icmje.org/index.html>