Issues concerning Consultant-Client interactions: Things I learned at the Information Center
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Abstract

This paper considers certain fundamental issues whenever a consultant’s services are needed. From the beginning, consultants and clients need to agree on several principles, set the parameters of their collaboration, and communicate clearly their expectations of the other’s role. Often problems arise when either or both parties fail to set some mutually agreeable guidelines and standards of communication. The end result may be a disappointed, dissatisfied, client who may not seek consultation services in the future and a stressed, overworked consultant who may feel that her/his services are not appreciated. Finally, some random personal notes from my experiences as a SAS® consultant working at the Information Center of a major University are presented.

To Consult or not to Consult

Several statistical papers (Cameron, 1969; Marquardt, 1979; Moses & Louis, 1984) as well as papers presented in earlier SUGI conferences (Marx, 1990; Stewart, 1990) have all pointed to the effectiveness and success of hiring a consultant for a business or research project. The Canadian Aspirin study is such an example of successful statistical consulting (The Canadian Cooperative Study Group, 1978). The increased demand for skilled statistical and SAS consultants in the industrial and corporate world lends additional support to this claim (Stewart, 1990).

Employing the services of a trained consultant may be dictated by several factors, research problems, time and personnel limitations, financial benefits etc. Although a consultant may not be able to salvage a badly designed and executed study (Moses & Louis, 1984) or bring order in a chaotic programming environment, s/he may be able to suggest solutions that, if implemented, may save time and resources in the future (Marx, 1990).

The Power of Communication

The most important aspect in a productive and long-lasting consulting relation among clients and consultants is the ability to communicate to the other party the subtle points of the undergoing research project and the necessary steps to be taken for its successful completion. Zahn and Isenberg (1983) wrote about that impossible customer who demands from the consultant an enormous amount of programming, data coding and entry and requests an unrealistic deadline for the completion of this job. It is not unusual for either clients or consultants to mis-interpret the other party’s intentions and expectations.

Moses and Louis (1984) suggest several steps for an effective cooperation between consultant and client:

- Understand the client’s problem. Know what the client wants and expects from you, the trained expert. As a consultant, it is important to venture into the client’s home-turf, get to know the research paradigm under investigation or the corporate structure, and use the client’s field lingo.
- Know about scheduling deadlines and other ‘materialistic’ aspects of the consultation. Pay attention to the quantity and quality of resources (SAS applications, manuals, computing resources, office space, etc) the client makes available to you, the time deadlines for project delivery, the client’s (as well as your own) financial limitations, your fees. Additional issues not to be considered lightly include your access and possible ownership of data. How will you be acknowledged for your work (except from your salary/fee)? Is there the potential for a co-authorship in a research paper (or an internal report) or will you end up being a footnote on the final page?
- The client may (and will frequently) have trouble communicating his/her problem clearly. It is your responsibility to ask the right questions...
and probe for more information. Find out ev-
everything you can about the project you will be
working on. Ask about what was going on be-
fore you. Who was in charge of the project you
are about to take over? Did they document their
work in an activity log? It will prove valuable
in your future planning.

- Do not expect the impossible. Although con-
sultants are highly motivated, trained, and ener-
ggetic people, they may not be able to transform
a poorly conceived study to a masterpiece of re-
search.

The Initial Meeting

During your initial meeting, show your respect for
your client and the problem(s) your client experiences. Do not ignore the common rules of courtesy. The
client will tend to feel defensive and will not provide
you with important information.

Listen carefully (rather than hear) as the client
states her/his problem. Ask the right, inquisitive ques-
tions. Paraphrase and summarize occasionally, so that
both the client and you get a clearer picture of the
problem. If you feel that a follow-up meeting is neces-
sary in order to clarify further aspects of the problem,
you should always start with a brief overview of what
has been achieved so far and the reason for this meet-
ing.

If you feel hesitant about the project, do not com-
mit. Give yourself time to consider the project and
then respond to the client. However, if you are ready
to commit, do not forget the ‘practical’ aspects of this
commitment. State up front your projected time and
your fees, delivery schedule, and resources you will
need to complete it. An oral or (better yet) written
agreement will protect both you and the client later
on.

After the work is done

After your consulting work has been completed,
and you are ready to give the client your recom-
mendations and solutions, try to avoid the techni-
cal/statistical jargon which may be foreign to the
client. Make concrete recommendations and present
them in an appropriately formatted written report. A
pile of output and lots of numbers, tables, and graph-
ics may not mean much to a client (and may cost you
a client).

You may also have to balance between suggest-
ing a simple solution that the client can understand
and apply on her/his own and a rather obscure solu-
tion that is beyond the client’s level of knowledge and
expertise. In other words, do you just do the work and
move on or do you try to educate the client and im-
prove her/his knowledge of the problem? If you are
working within a corporate structure, consider offering
seminars and workshops to the client’s employees.
It may land you an additional consulting job and will
empower the client with more information and knowl-
edge for handling similar problems in the future.

Some Random Personal Thoughts

SAS is the recommended and fully supported
statistical software at SU. The clients we support
(through our consulting sessions, seminars, documen-
tation, e-mail technical support) are primarily gradu-
ate students and faculty working on various projects.
Unless it is something simple, I have tended to avoid
the over-the-phone requests for “five seconds of your
time” or the walk-in “five minutes for an ANOVA”
type questions. Experience has shown that these re-
quests last much longer with both the client and my-
self not achieving our goal at the end. Rather, I invite
the client over at the Center and have a one-on-one
meeting and discuss the project.

- One of the first questions to answer is their
  knowledge of the SAS system and their statis-
tical background. It helps to know when con-
sidering possible solutions that they will under-
stand and be able to defend later on. I also
set some priorities straight. I can help them
with the SAS aspects of their work not their re-
search design/methodology question and I can-
not complete their assignment which was due
half an hour ago.

- Often the question may be simple and rather
  straightforward to answer in which case we
look over the client’s SAS code and logs to dis-
cover the error. Re-designing and improving the
code is done with the client present, so the client
is fully aware of what will be achieved at the end.
• Other times the presented problem may require looking up references and manuals and doing some more extensive research, in which cases I ask for a one to two-day period so I can look for the proper answer. I also inform the client about the availability of SAS manuals at the campus libraries.

• It is not unusual for the client to jump in the details of his/her project without considering the fact that it is the first time I work with him/her. The answer is to ask questions about the design again and again until we both have a clear picture of the project. It is here where we occasionally discover that some of the errors in previous SAS code are due to a lack of understanding of the problem. It is also here that we find out the changes the client wants to make to the design of the project have been mandated by supervising faculty, while the client may not be fully knowledgeable about what is asked of him/her. Although, it may be difficult to override a supervising faculty, firmly suggesting alternative solutions may be warranted.

• I have found out that suggesting SAS manuals, usage and reference guides, and primarily Books by Users, to clients helps in augmenting their knowledge base of SAS. Introducing large chunks of comments within the SAS code is a tool that has helped both me and the client. When the client comes back two months later I can recall rather easily what I did earlier. The final SAS code is tailored to the client’s needs and abilities.

SAS consulting within a major university has provided interesting insights into multiple scientific disciplines from biology to geology to psychology. It has also been a training experience for me since every consultation case (and every client) presents with a different problem to be dealt with.

Final Comments

Consulting for a client may be a rewarding experience. It offers you financial independence as well as the time to consider additional activities (Marx, 1990). The successful consultant is the one who is able to communicate with the client clearly, exchange information about the problem to be solved, and provide the client with solutions and information. At the end, the successful consultation is indeed the two-way street Moses and Louis (1984) suggested; both the client and the consultant come out having discovered something new and useful that they can apply in the future.

REFERENCES


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