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How to Write a Scientific Paper

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Abstract

We (meaning I) present observations on the scientific publishing process which (meaning that) are important and timely in that unless I have more published papers soon, I will never get another job. These observations are consistent with the theory that it is difficult to do good science, write good scientific papers, and have enough publications to get future jobs.

1. Introduction

Scientific papers (e.g., Schulman 1988; Schulman & Fomalont 1992; Schulman, Bregman, & Roberts 1994; Schulman & Bregman 1995; Schulman 1996) are an important--though poorly understood--method of publication. They are important because without them scientists cannot get money from the government or from universities. They are poorly understood because they are not written very well (see, for example, Schulman 1995 and selected references therein). An excellent example of the latter phenomenon occurs in most introductions, which are supposed to introduce the reader to the subject so that the paper will be comprehensible even if the reader has not done any work in the field.

The real purpose of introductions, of course, is to cite your own work (e.g., Schulman *et al.* 1993a), the work of your advisor (e.g., Bregman, Schulman, & Tomisaka 1995), the work of your spouse (e.g., Cox, Schulman, & Bregman 1993), the work of a friend from college (e.g., Taylor, Morris, & Schulman 1993), or even the work of someone you've never met, as long as your name happens to be on the paper (e.g., Richmond *et al.* 1994). Note that these citations should not be limited to refereed journal articles (e.g., Collura *et al.* 1994), but should also include conference proceedings (e.g., Schulman *et al.* 1993b), and other published or unpublished work (e.g., Schulman 1990).

At the end of the introduction you must summarize the paper by reciting the section headings. In this paper, we discuss scientific research (section 2), scientific writing (section 3), scientific publication (section 4), and draw some conclusions (section 5).

2. Scientific Research

The purpose of science is to get paid for doing fun stuff (Schulman *et al.* 1991). Nominally, science involves discovering something new about the Universe, but this isn't really necessary. What is really necessary is a grant. In order to obtain a grant, your application must state that the research will discover something incredibly fundamental. The grant agency must also believe that you are the best person to do this particular research, so you should cite yourself both early (Schulman 1994) and often (Schulman *et al.* 1993c). Feel free to cite other papers as well (e.g., Blakeslee *et al.* 1993; Levine *et al.* 1993), so long as you are on the author list.

Once you get the grant, your university, company, or government agency will immediately take 30 to 70% of it so that they can heat the building, pay for Internet connections, and purchase large yachts.

Now it's time for the actual research. You will quickly find out that (a) your project is not as simple as you thought it would be and (b) you can't actually solve the problem. However -- and this is very important -- you must publish anyway (Schulman & Bregman 1994).

3. Scientific Writing

You've spent years on a project and have finally discovered that you can't solve the problem you set out to solve. Nonetheless, you have a responsibility to present your research to the scientific community (Schulman *et al.* 1993d). Be aware that negative results can be just as important as positive results, and

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