

Hermeneutic Conception of Scientific Research and the Issue of Scientific Fact



Research Ethics

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Abstract

The subject of analysis is the nature of scientific research and the issue of scientific fact viewpoint in two different perspectives. One perspective, which is traditional, considers the scientific research and the fact as an element that enjoys an absolute objectivity quality whereas the postmodern perspective considers it as a social construction of relative nature. The idea is to be demonstrated the new postmodern condition of the scientific research which considers the latter as a theoretical and practical tool that is articulated by specific interests and social groups. In this respect, the science and its facts are interpretive elements of reality produced by social groups serving the latter. As a conclusion we can emphasize that scientific research is oriented and managed by communities of certain social groups. All elements and structures of this research are far from a neutral objectivity since they are influenced by social and historical interests. Consequently, it is impossible to separate the fact from issues of evaluation that classify it as such. On a more theoretical general level it becomes impossible the explicit separation and distinction between the empirical content and the conceptual approach of the scientific fact.

1. Introduction

The issue of what is regarded as scientific research and fact is extremely important as it is connected with aspects of testing, objectivity and what we consider as truth. Traditionally it has been supported the idea of positivism that fact constitutes an objective thing that stands in the world as an object and the subject does not play any role in its construction and perception. Exactly with the profound changes that have suffered epistemology of scientific research the idea has emerged that science and its facts constitute an articulated narrative, forming and legitimizing the social group which reveals it. It is a scientific research on the size of hermeneutics where fact is qualified as subjective and social interpretation established in some elements of evaluation. This provides the essence of a dynamic and deeply hermeneutic research to the scientific research.

2. Scientific Fact as Hermeneutic Construction

One of the important elements of the scientific research relates to the nature of what is considered as "*fact*" in science. Certainly the topic of discussions and views in the field of epistemology is very wide but we will analyze an epistemological post-positivism perspective related to the fact in science. Therefore, what is easily understood is the perspective that with the anti-positivist spirit of epistemology, the latter approaches more with the conception of the hermeneutic nature connected with the fact. This means that a revision of epistemology itself results in a review of its conception about what is considered as "*fact*" in science and the latter is inseparable from the conception of science as discourse. Regarding the latter, the current that conceives science as a discourse of the social construction strongly emphasizes the social historicist nature and its social incentives. Since early Weber stressed that the value of science lies in the fact how the specific research is guided by the interest and motivation of the researcher (Weber, 1949). However, in a narrower analytical context, the approach of the natural sciences to the epistemology occurs when someone flees from the subject/object polarization and the idea of truth as teleology or pure recognition of the object. With the advent of a kind of historicist perspective even in epistemology it is established a kind of historicist epistemology (Bachelard, Kuhn, Feyerabend etc.) which creates great opportunities for a dialogue with the social sciences. Hermeneutics thus becomes an explanatory and disambiguation of ontological and existential conditions where the interpretative character of the scientific research activity is developed as well as related to what is considered as fact in science. The task of hermeneutics according to Rorty is exactly to keep steadily the dialogue with sciences. "Hermeneutics sees the relations between various discourses as those of strands in a possible

conversation, a conversation which presuppose no disciplinary matrix which unites the speakers” (Rorty, 1979, p.318). Therefore the scientific research should be seen as a situation that enhances the dialogue, merging of different horizons and also promotes the existence of different cognitive styles. It is to create a network model of knowledge and recognition.

Meanwhile by the criticisms against empiricism of Quine and by the third criticism of Davidson, the Wittgensteinian conception arises where the idea of truth as correspondence and logical reflection of an empirical configuration is abandoned. With the passage to the pragmatic perspective of language, Wittgenstein emphasizes that to understand a statement means to observe the proceedings of its use (Wittgenstein, 1986). This will lead subsequently in the holistics thesis articulated by Quine which will leave drastic consequences in the post-popperian epistemology according to which it can not be observed or distinguished (clear-cut) the meaning of a particular linguistic statement because the latter expresses a specific perspectivist contextual and addressing dependence. (Quine, 1961). “The totality of our so-called knowledge or beliefs, from the most casual matters of geography and history to the profoundest laws of atomic physics or even of pure mathematics and logic, is a man-made fabric which impinges on experience only along the edges.. [...]A conflict with experience at the periphery occasions readjustments in the interior of the field. [...] Having reevaluated one statement we must reevaluate some others, which may be statements logically connected with the first or may be the statements of logical connections themselves. But the total field is so underdetermined by its boundary conditions, experience, that there is much latitude of choice as to what statements to reevaluate in the light of any single contrary experience”. (Quine, 1961, p. 42-43). In this context, a deep conceptual change is understood, that also brings a redefinition of the rule of the object based on the hermeneutic social nature of what is considered as fact. Therefore it is required to be performed a review in the gnoseological plan where it should not be accepted the fact that the objects appear in their expansion in the rule of the laws of nature but in the cultural and linguistic dimensions. Thus, according to this core idea, the truth of a belief is not a matter of how things stand with an “independently existing reality;” and its rationality is not a matter of its approval by “transcendent procedures of rational assessment”. Rather, whether a belief is knowledge necessarily depends at least in part on the contingent social and material setting in which that belief is produced (or maintained). I shall call any conception of knowledge which incorporates this core conviction a social dependence conception of knowledge. In recent times, the most influential versions of social dependence views of knowledge have been formulated in terms of the now ubiquitous notion of social construction. All knowledge, it is said, is socially dependent because all knowledge is socially constructed” (Boghossian , 2006, p.6-7). However, accepting the social construction of fact in science constitutes an aspect that enjoys deeper implications. As a result, “finally, a typical social construction claim will involve not merely the claim that a particular fact was built by a social group, but that it was constructed in a way that respects their contingent needs and interests, so that had they not had those needs and interests they might well not have constructed that fact” (Boghossian , 2006, p.17). In this aspect, the social character of the creation or construction of fact constitutes an existential essence of existence of the fact itself. “The social construction theorist is not typically interested in such mandated constructions. He wants to emphasize the contingency of the facts we have constructed, to show that they needn’t have obtained had we chosen otherwise. In the intended technical sense, then, a fact is socially constructed if and only if it isnecessarily true that it could only have obtained through the contingent actions of a social group” (Boghossian , 2006, p.18).

Meantime, the events in the world do not simply dependent on the objects or phenomena that it contains but on their relationship which forms the facts. This implies two fundamental aspects: firstly that “we construct a fact by accepting a way of talking or thinking which describes that fact” (Boghossian , 2006, p.27)” and secondly, since we have a regime of different discourses, then subsequently different perspectives about the facts are articulated. “Now, we need to understand better this idea of a proposition’s being true only relative to a

theory, and not just true simpliciter” (Boghossian, 2006, p.44). In the field of hermeneutics, the perspectivist nature and comprehension of fact, not as a separate entity, it is openly emphasized as a situation that also exists in every scientific research.

3. The Axiological Assessment about the Fact

From what we analyzed above it is understood that the hermeneutic conception of the fact depends on the social perspective of a social group which bases on a certain paradigm what it qualifies as a fact. In this regard, the concept of fact can not be separated from what is considered as a value from a particular social group. Herein, an important aspect regarding the creation of a hermeneutic gnoseology is the reassessment of Weber that a relationship exists between the theoretical aspect and the axiological aspect as a choice criterion between empirical multiplicity. In this regard, any knowledge is oriented and delineated by several preliminary subjective values. “The objective validity of all empirical knowledge rests exclusively upon the ordering of the given reality according to categories which are subjective in a specific sense, namely, in that they present the presuppositions of our knowledge and are based on the presupposition of the value of those truths which empirical knowledge alone is able to give us. The means available to our science offer nothing to those persons to whom this truth is of no value. It should be remembered that the belief in the value of scientific truth is the product of certain cultures and is not a product of man’s original nature. Those for whom scientific truth is of no value will seek in vain for some other truth to take the place of science in just those respects in which it is unique, namely, in provision of concepts and judgments which are neither empirical reality nor reproduction of it but facilitate its analytical ordering in a valid manner” (Weber, 1949, p.110-111). In this way, the concept of Weber related to science as well as for Nietzsche, is not related to the reflection of reality or the search for truth but with the understanding based on several preliminary values and axiologic perspectives. According to Weber the science acts the same as culture, as an open and integrating system of meanings (Weber, 1949). For this reason, to him the objectivity of science does not lie in the compliance (correspondence) of the statement with ontological structure of reality, but with the discovery of a significant condition (also axiologic) for the explanation of phenomena. This conclusion is important to emphasize another important critic against neopositivism which deemed the values and ethics in general as a discourse that is not included in scientific discussion. Indeed, in this view, this debate it’s not very relevance while the ethical principles in scientific research are accepted as meta-principles that influence and widely establish the scientific research and what is considered as a fact in science. What we emphasize is the fact that it is in the nature of evaluation giving sense to a certain situation as a fact in science. This approach also pushed later the neopositivism to accept the situation that the concept of values, belief or desire is important in science as much as the term "concept". “Quine concludes that this shows that the notions of ‘belief’ and ‘desire’ are (for ‘scientific’ purpose) as dispensable as those of ‘concept’ and ‘intuition’” (Rorty, 1979, p.193). Therefore the social nature of the construction of the fact expresses the hermeneutic nature of the fact/value connection where as the interpretive work of a text is grounded upon the attitude of the ethical choice also the “epistemology, or the structure of the knowledge we accept, is grounded upon an ethical decision” (Feyerabend, 1999, p.71)

Conclusions

The perspective of the concept of fact as a social construction requires to display the social and hermeneutic nature of this element itself. Given the recognition of the social and historical impact in the social research, the panorama of this research appeared, far from the absolute objectivity and the spirit of positivism. Herein, have been analyzed some elements or structures that the scientific research displays as a special form of knowledge where the subject is affected by social and historical horizons throughout the research of the scientific object. Meanwhile this perspective encompasses not only the condition that a fact is built from a

particular social group but also because it reflects the interests and needs of the latter. Consequently, the concept of the fact is built on what it qualifies as a value by a social group. Just as science constitutes an established starting point in some axiologic principles also the fact built as such reflects this aspect. At a more conceptual level it is precisely this aspect that makes it impossible the separation of the fact as something that is objectively built and supported outside the theories articulated by a particular social group.

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