

EMPIRICISM IN SOCIAL SCIENCE RESEARCH

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Abstract

Empiricism in social science research refers to the philosophical and methodological orientation that places observable experience, sensory evidence, and systematic data collection at the centre of knowledge production. This paper examines Empiricism in social science research, using secondary methods of data collection. Findings show that credible explanations of social phenomena must be grounded in what can be observed, measured, or verified through experience rather than in abstract reasoning or speculation. Although social life contains subjective elements such as beliefs, norms, and intentions, empiricism maintains that systematic observation provides the most reliable basis for understanding how societies function and evolve. The paper concludes that, social science research has evolved through revolutions to be grounded on empirical evidences, measurement and quantifications. It recommends perpetual application of empirical data in social science research.

Keywords: empiricism; measurement; evaluation; quantification; validation; social science research

Introduction

At the philosophical level, empiricism emerged as a reaction to rationalist traditions that privileged deductive reasoning as the primary route to knowledge. Thinkers such as John Locke and David Hume argued that all human knowledge originates in experience and that the mind is a tabula rasa upon which experience writes (Bryman, 2016). In contemporary social science, this orientation has evolved into methodological empiricism, which emphasizes data collection techniques such as surveys, interviews, experiments, content analysis, and observation as essential instruments for generating knowledge about social behaviour and institutions (Hume, 2011; Locke, 1999).

Material and Methods

The paper adopted the secondary method of data collection using the library documents as point of departure. Books, journals, newspapers and magazines, among others, are described as part of the secondary methods and some of those used in this paper.

Literature Review

In practice, empiricism shapes the logic of scientific inquiry in social research. It encourages scholars to begin with specific observations and use them to generate concepts, patterns, and theories. This inductive logic does not preclude the use of theory; rather, it requires that theories be tested and validated through systematic engagement with data. Empiricism therefore provides a foundation for both descriptive and explanatory research, enabling social scientists to document patterns of social behaviour and to examine relationships between variables in ways that can be replicated and verified (Neuman, 2014). The credibility of a study is thus closely tied to the rigour of its empirical procedures, including sampling, measurement, data collection, and analysis.

Central to empiricism is the principle of verifiability. Social science findings must be open to scrutiny and capable of being confirmed or refuted by other researchers who apply the same or similar methods. This emphasis on verifiability fosters transparency and accountability in the research process, ensuring that conclusions are not based on personal opinion or ideological preference but on evidence that can withstand critical examination. Empiricism also encourages the use of systematic procedures to reduce bias, such as operationalising concepts, employing random sampling, and applying established analytical techniques to reveal underlying social patterns (Creswell & Creswell, 2018).

Despite its strengths, empiricism in social science research has been the subject of longstanding debates. Critics argue that an excessive reliance on observable data may lead researchers to overlook deeper, non-observable dimensions of social life, such as meanings, interpretations, and power relations. Interpretivist scholars, for example, contend that social reality is constructed and that human actions cannot be fully understood through measurement alone. Nevertheless, even within interpretivist traditions, empirical data remain essential, though they may take qualitative forms such as narratives, texts, and lived experiences rather than quantified indicators (Schwandt, 2007). Thus, empiricism is not limited to quantitative methods but encompasses both qualitative and quantitative approaches that rely on systematic observation.

Empiricism continues to be central to contemporary social science because it provides a coherent foundation for evidence-based inquiry, theory development, and policy evaluation. In fields such as sociology, political science, anthropology, and international relations, empirical research offers tools for examining complex social issues, testing competing explanations, and producing knowledge that can inform decision-making. Its emphasis on systematic observation, replicability, and logical inference makes empiricism a cornerstone of scientific practice and a vital component of scholarly rigour in the social sciences.

Findings and Discussion

Empiricism has profound implications for the way social scientists conceptualize causality and explanation. By anchoring explanations in observable evidence, empiricism encourages researchers to identify regularities and patterns that can illuminate why certain social outcomes occur. This commitment to causal inference has influenced the development of sophisticated research designs, including longitudinal studies, quasi-experiments, and multilevel modelling, all of which aim to distinguish genuine causal relationships from spurious ones. The outcome is a more disciplined approach to understanding how individual actions, institutional structures, and

broader social environments interact to produce discernible effects. This enhances the predictive power of social science research and elevates its practical value for policymakers and practitioners who rely on tested evidence rather than conjecture (Shadish, Cook, & Campbell, 2002).

Empiricism also plays an essential role in bridging the gap between academic research and real-world application. Because empirical inquiry prioritizes observable data, it allows researchers to capture the lived experiences of communities, individuals, and institutions in ways that directly contribute to public policy, social intervention, and development planning. Empirical studies on issues such as poverty, migration, public health, governance, security, and education often shape national and regional policy frameworks by providing actionable insights rooted in measurable evidence. This applied dimension of empiricism demonstrates that its value extends beyond theoretical refinement to practical problem-solving, thereby reinforcing the relevance of social science research to addressing contemporary societal challenges (Epstein & King, 2013).

Furthermore, the expansion of digital technologies and big data has introduced new frontiers for empirical research in the social sciences. Advances in computational methods, digital ethnography, remote sensing, social media analytics, and machine learning have broadened the scope of what can be empirically observed and analyzed. These tools enable researchers to capture large-scale behavioural trends, uncover hidden patterns, and analyse complex datasets that were previously inaccessible. Although these technological developments raise important ethical questions and methodological considerations, they ultimately enhance the empirical tradition by offering novel ways to engage with social reality. Contemporary empiricism is therefore increasingly characterized by methodological pluralism, technological integration, and a commitment to refining evidence-based understanding in a rapidly evolving world (Salganik, 2018).

References

Bryman, A. (2016). Social research methods (5th ed.). Oxford University Press.

Creswell, J. W., & Creswell, J. D. (2018). Research design: Qualitative, quantitative, and mixed methods approach (5th ed.). Sage.

Epstein, L., & King, G. (2013). The rules of inference. University of Chicago Press.

Hume, D. (2011). An enquiry concerning human understanding. Oxford University Press. (Original work published 1748)

Locke, J. (1999). An Essay Concerning Human Understanding. Penguin. (Original work published 1690)

Neuman, W. L. (2014). Social research methods: Qualitative and quantitative approaches (7th ed.). Pearson.

Salganik, M. J. (2018). Bit by bit: Social research in the digital age. Princeton University Press.

Schwandt, T. A. (2007). The Sage dictionary of qualitative inquiry (3rd ed.). Sage.

Shadish, W. R., Cook, T. D., & Campbell, D. T. (2002). Experimental and quasi-experimental designs for generalized causal inference. Houghton Mifflin.