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Is There Such a Thing as a Social Science?

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STRACT

This paper looks at the centrality of *action* in social disciplines and examines the implications of this for whether social disciplines can be called scientific. Various reasons for calling social disciplines scientific are examined and rejected: (1) the claim that social disciplines are *reducible* to natural scientific ones, (2) the claim, from Donald Davidson, that reasons for action are to be construed in causal terms, (3) the claim that social disciplines employ, or should employ, the methodologies of the natural sciences. The question of progress in social disciplines will also be examined critically. Does the (apparent) lack of progress in social disciplines suggest that academics working in sociology, economics, politics, human geography, and philosophy should adopt the methods of natural science? My answer will be that it does not but nonetheless I will side with John Dupré against Hutchinson, Read, and Sharrock in claiming that social disciplines can properly be called scientific. There *is* such a thing as a social science.

WORDS

Action, social science, reductionism, progress, causation.

SUMEN

Este trabajo examina la centralidad de la acción en las disciplinas sociales y las implicaciones de este con el fin de saber si las disciplinas sociales pueden ser llamadas científicas. Se examinan y rechazan diversas razones que califican las disciplinas sociales de científicas: 1) la afirmación de que las disciplinas sociales son reducibles a las ciencias naturales; 2) la alegación, de Donald Davidson, de que las razones de la acción deben interpretarse en términos causales; 3) la afirmación de que las disciplinas sociales emplean o deberían emplear las metodologías de las ciencias naturales. La cuestión del progreso en las disciplinas sociales es examinada críticamente. ¿ Deben adoptar los métodos de las ciencias naturales los académicos que trabajan en sociología, economía, política, geografía humana y filosofía a la aparente falta de progreso en las disciplinas sociales? Mi respuesta es negativa y comparto los puntos de vista de John Dupré contra Hutchinson, Read y Sharrock al afirmar que las disciplinas sociales pueden considerarse científicas ya que existe algo como ciencia social.

ALABRAS CLAVE

Acción, ciencias sociales, reduccionismo, progreso, causalidad

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I am not interested in constructing a building, so much as in having a perspicuous view of the foundations of possible buildings. So I am not aiming at the same target as the scientists and my way of thinking is different from theirs.

I. INTRODUCTION

Wittgenstein's work is significant in terms of the development of the philosophy of action. In the very first of the numbered remarks in his *Philosophical Investigations* Wittgenstein highlights the way a shopkeeper *acts* in delivering goods to a customer as a way of contrasting his understanding of language with the 'Augustinian' picture of language. In discussing one sense of the expression 'language game' Wittgenstein describes a language game as consisting of «language and the activities into which it is woven»². In other remarks Wittgenstein discusses the relationships between action and ostensive definition³, the action of a machine (in connection with his discussion of rule following/the relationship between a rule and action in accordance

Δοκος

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with it)⁴, action and reasons⁵, action/behaviour and language⁶, acting and thinking⁷, acting on orders⁸, and action and the will⁹.

In his book The Idea of a Social Science Peter Winch developed Wittgenstein's ideas about action, behavior, language, and rules into a critique of the idea that the disciplines known as the social sciences are scientific in the manner of the natural sciences. Action appears in The Idea of a Social Science as a way of distinguishing natural sciences, which feature causal explanations prominently, from social sciences, which focus upon human actions and feature explanations in terms of reasons and motives prominently. Winch distinguishes actions from habitual behaviour and distinguishes actions in terms of motives from causal explanations. Wittgenstein was notoriously opposed to scientism, i.e. the attempt to bring the methods of science to bear in areas where they are not appropriate, especially in philosophy¹⁰. Winch, following Wittgenstein, detailed ways in

Wittgenstein, L. Culture and Value, trans. Peter Winch, Oxford: Black-vell, 1980, p. 7.

² Wittgenstein, L. *Philosophical Investigations*, Revised 4th edition by P. M. S. Hacker and Joachim Schulte, trans. G. E. M. Anscombe, P. M. S. Hacker and Joachim Schulte, Wiley-Blackwell: Oxford, 2009, §7.

³ Ibid. see, for example, §33 and §36.

¹bid. \$195.

⁵ Ibid. see, for example, §211.

⁶ Wittgenstein's 'private language argument' provides a good example of his thinking about language and action but action and language are discussed throughout the *Philosophical Investigations*. See, for example, §243, §556.

⁷ Ibid. see, for example, \$330 and \$490.

⁸ Ibid. §459-460, §487, §493, §505, §519.

⁹ Ibid. §§611-628. In a recent collection of articles on the philosophy of action edited by Constantine Sandis and Jonathan Dancy the editors place this selection of remarks from Wittgenstein at the front of the book because «[t]he work of Wittgenstein has been seminal in this change [the move towards having graduate classes devoted entirely to the philosophy of action]» ('Preface' to Dancy, J. and Sandis, C. (eds.) *Philosophy of Action: An Anthology*, Wiley-Blackwell: Oxford, 2015, p. 10).

¹⁰ For example, in the Blue Book Wittgenstein says that «[p]hilosophers constantly see the method of science before their eyes, and are irresistibly tempted to ask and answer questions in the way science does. This tendency is the real source of metaphysics and leads the philosopher into complete darkness» (Wittgenstein, L. *The Blue and Brown Books*, Harper & Row: New York, 1958, p. 18). See also §81, §89, §109, PPF 365 and PPF 371 in

which social investigations differ from investigations in the nat-

social disciplines 'sciences' is likely to lead to confusion¹¹. Howscience. At the British Wittgenstein Society conference in 2015 genstein and Winch agree that there is no such thing as a socia ever, not all philosophers who have been influenced by Witt the idea that social studies can be scientific12. ral sciences and social disciplines. In their book There is No Such recently defended Winch's account of differences between natu-(on Wittgenstein and the social sciences) John Dupré defended Thing as a Social Science they come to the conclusion that calling Phil Hutchinson, Rupert Read and Wes Sharrock have

social sciences are reducible to natural sciences. The positivists well as many scientists) have made the claim that social sciences of the Vienna Circle and philosophers influenced by them (as way of arguing that social sciences are scientific is to claim that social sciences13 are in fact scientific there are a number of difare reducible to natural sciences, i.e. that behaviour at the level ferent ways in which the question might be approached. (i) One In discussing whether the disciplines that are known as

and Joachim Schulte, Wiley-Blackwell: Oxford, 2009. Hacker and Joachim Schulte, trans. G. E. M. Anscombe, P. M. S. Hacker Wittgenstein, L. Philosophical Investigations, Revised 4th edition by P. M. S.

Thing as a Social Science: In Defence of Peter Winch, Ashgate: Aldershot, 2008 11 Hutchinson, P., Read, R., and Sharrock, W. (eds.) There is No Such

or Leafy Suburb' in Philosophy of the Social Sciences, May 2016. The paper delivered has since been published as 'Social Science: City Centre britishwittgensteinsociety.org/news/annual-conference/conference-videos 12 A video of the talk John Dupré gave can be found here: http://www

societies they belong to. There is more disagreement about whether philosoaim at knowledge of the various relationships between individuals and the anthropology, human geography, politics and sociology: disciplines which phy and history are to be counted among the social sciences. 13 Social sciences are usually thought to include economics, sociology,

> sons are causal explanations is relevant to this. Donald Davidsciences. The debate about whether explanations in terms of reasocial sciences are of the same sort as those used in the natural the claim that laws at one level can be derived from laws at a even sense data. Reductionists often accompany this claim with at another level - cells, or molecules, atoms, physical things or of social groups can ultimately be explained in terms of objects es14. (iv) A problem that arises in comparing natural sciences to that reasons are causes. (iii) Another relevant issue in deciding son in the later part of the twentieth century famously argued but nonetheless claim that the kind of explanations used in the lower level (e.g. that the laws of chemistry can be derived from of issues as well as advances in technology and in the sophisticaof progress in the social sciences as in the natural ones. In the social sciences is that there does not seem to be the same kind basis that they employ the same methodology as natural scienchave defended the claim that social sciences are scientific on the whether the social sciences are scientific is methodology. Some the laws of physics). (ii) One might not accept reductionism ophers are still puzzled about the question of whether human example, the relationship between mind and body, and philostion and usefulness of theories. However, in the social sciences natural sciences we see widespread agreement over a wide range is certainly no clear agreement amongst philosophers about, for any progress has been made (in philosophy in particular). There disagreement is the rule and doubts are raised about whether

employ special methods (Neurath, O. 'Physicalism: The Philosophy of the tion) Vol. 16 edited and translated by Robert S. Cohen and Marie Neurath, Viennese Circle', in Philosophical Papers 1913-1946 (Vienna Circle Collectenable to separate cultural sciences from natural ones by saying that each D. Reidel Publishing Company, Dordrecht/Boston/Lancaster, p. 50). 14 For example, Otto Neurath (of the Vienna Circle) claims that it is not

beings have free will despite centuries of having discussed the question¹⁵.

Read and Sharrock would largely agree in how they would think about the issues of reductionism, the varieties of explanation, methodology, and progress. However, they come to different conclusions. In this paper I will come down on the side of Dupré and conclude that ultimately the question of whether the social sciences are scientific does not rest on whether they are reducible to natural sciences or whether they employ the same methodologies. I will argue that social sciences are not reducible to natural sciences and that social and natural sciences do not employ the same methodologies across the board (and nor should they) but that nonetheless disciplines like psychology, sociology, and economics can make some claim to be scientific.

Before going on to discuss reductionism it is first worth-while mentioning the related, infamous, dispute in the late 1950s and early 1960s between C. P. Snow and F. R. Leavis about whether there were two cultures, literary and scientific, which were mutually uncomprehending of one another. Snow suggested that there were and that in order to correct the situation there should be greater efforts to educate the young in the natural sciences and to introduce more scientific literacy into politics. He thought that this would lead to improvements in society, especially in poorer parts of the world. Snow was accused of scientism for his efforts to promote the role of science in so-

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on the other hand, aroued that there wa

science education and technological progress at the expense of about Snow's scientism are not of the same sort as Wittgenstein's culture17 (and was accused of 'literarism'18). Leavis's concerns ciety16. Leavis, on the other hand, argued that there was just one is), Wittgenstein's worries about scientism were primarily about lives (literature has an important role to play, according to Leavof lacuna in terms of what makes for good, meaningful, happy primarily concerned with the way in which Snow emphasized worries about scientism mentioned above. Whereas Leavis was concepts into social sciences (particularly philosophy but also the confusion caused by trying to import scientific methods and literature and social science education which involved a kind and Leavis had relevant things to say about the status of social expressed somewhat similar worries to Leavis about progress¹⁹ psychology and other social/humanistic disciplines) and about and humanistic disciplines that I will come back to in my conthat is not to say that there is no overlap at all. Wittgenstein attempts to reduce social sciences to natural ones. However,

¹⁵ There is an excellent recent book on the topic of theorising in social sciences written from a critical Wittgensteinian perspective that I will not discuss here. Leonidas Tsilipakos' Clarity and Confusion in Social Theory (Ashgate: Farnham, 2015) discusses problems with trying to import theoretical frameworks into social sciences. My review of his book appeared in Vinten, R. 'Review of «Clarity and Confusion in Social Theory» by Leonidas Tsilipakos', Nordic Wittgenstein Review, Vol. 4, No. 2, 2015.

¹⁶ See Leavis, F. R. 'Luddites? Or, There is Only One Culture? in *Two Cultures? The Significance of C. P. Snow* (with Introduction by Stefan Collini), Cambridge: Cambridge University Press, 2013, p. 103.

¹⁷ Ibid. p. 101 and p. 106.

¹⁸ Ibid. p. 103.

that, «[o]ur civilization is characterized by the word 'progress'. Progress is its form rather than making progress being one of its features. Typically it constructs. It is occupied with building an ever more complicated structure. And even clarity is only a means to this end and not an end in itself. For me on the contrary clarity, perspicuity are valuable in themselves. I am not interested in constructing a building, so much as in having a perspicuous view of the foundations of possible buildings. So I am not aiming at the same target as the scientists and my way of thinking is different from theirs» (Wittgenstein, L. Culture and Value, trans. Peter Winch, Oxford: Blackwell, 1980, p. 7).

²⁰ Leavis and Wittgenstein were briefly friends (see Monk, R. *Ludwig Wittgenstein*, London: Vintage, 1991 pp. 42, 272, 278-9, 569 and also

(i) What is reductionism?

II. REDUCTIONISM

cles, and that we can explain entities at one level in terms of the molecules made up of atoms composed out of subatomic partiticellular organisms are made up of cells, which are made up of are made up of collections of multicellular organisms, and mulwhich it is composed»24. So, one might think that social groups understood in terms of its parts, «...the ions and molecules of goes on to argue that a nerve cell in turn can be expected to be of nerve cells...»²³ is an expression of a reductionist view. Crick ou'...are in fact no more than the behaviour of a vast assembly and above y» and so the scientist Francis Crick's claim that «'[y] typically implies that x is nothing more than y or nothing over ductionism²², makes the point that «[s]aying that x reduces to ystituents»21. The Stanford Encyclopedia of Philosophy entry on regiven type in terms of the nature and behaviour of their conplete explanation of the nature and behaviour of entities of a the lowest level of explanation²⁵. lower levels, with the subatomic particles studied by physics at Reductionism has been defined as «a commitment to the com-

ford: Oxford University Press, 1984, pp. 50-67). Leavis, F. R. 'Memories of Wittgenstein' in Recollections of Wittgenstein, Ox-

roscience, Oxford: Blackwell, 2003, p. 357. 21 Bennett, M. R. and Hacker, P. M. S. Philosophical Foundations of Neu-

duction/, accessed 29/08/16. 22 'Scientific Reduction', http://plato.stanford.edu/entries/scientific-re-

²³ Crick, F. The Astonishing Hypothesis, Touchstone: London, 1995, p. 3

²⁴ Ibid. p. 7.

losophy of Science, vol. 2, University of Minnesota Press: Minneapolis, 1958 a working hypothesis' in H. Feigl et. al. (eds.) Minnesota Studies in the Philation of it is Paul Oppenheim and Hilary Putnam's 'The unity of science as 25 This is what is known as 'classical reductionism', and the classic formu-

(ii) Why be a reductionist?

of science makes it tempting to import scientific methods and ing advances, in technology, medicine, and so on. The success lends it credibility but also the esteem in which science itself is held. Science is seen to have been very successful in makity²⁶ and it is not just the fact that scientists subscribe to it that progress, will be discussed in section IV. Reductionism is also attitudes into other areas to see if they might not benefit from like Crick and others such as Colin Blakemore lends it credibil-The fact that this position is advanced by respected scientists past philosophy have been discredited and replaced by one or apparently supported by the fact that dualistic conceptions of the same kind of treatment. This issue, the issue of scientific same kind of stuff - matter - then presumably everything can be another form of materialism. If everything is made out of the not rely on such explanations²⁷. explained in terms of it. We have no need for explanations in terms of immaterial substance and scientific explanation does

(iii) Problems with reductionism

One problem for reductionism is that although the rejection of dualism appears to support a unified materialism, the rejection of. Materialism, if it is taken to be the view that everything that plain them or things about them in terms of what they are made it comes to explanations of material things we often do not exof dualism does not in fact imply materialism and even when

²⁶ See, for example, Blakemore, C. The Mind Machine, BBC Publica-

tions: London, 1988, pp. 270-2. a reductionist and one can be a reductionist without being a materialist. Berkeley, an idealist, thought that everything reduces to minds and ideas. ²⁷ However, it is worth noting that one can be a materialist without being

of anything»29. So materialism cannot be used in support of reeven when it comes to material objects we often explain their material objects or stuffs». Bennett and Hacker point out that systems, numbers and theorems, games and plays are neither which we would like to say exist but that are not material obexists is material, is not well supported. There are many things in terms of what they are made of, «...since they are not made torical events, such as the Russian revolution, are not explained motives (the behaviour of animals and human beings)28. His-(e.g. human organs), others in terms of their goals, reasons, or are made of. We explain some things in terms of their function behaviour, perfectly legitimately, in terms other than what they jects. As Max Bennett and Peter Hacker note, «laws and legal

molecules, brain states, or sense data. In the Philosophical Inusual candidates that reductionist philosophers refer to - cells, attributes of human beings cannot be reduced to any of the to natural ones is that social sciences often involve reference to correct application of a relevant rule (e.g. a criterion for some would be (at least) two different criteria for knowing - (i) the cannot be a mental state or disposition. If it were then there vertigations one case that Wittgenstein brings our attention to the psychological attributes of human beings but psychological in the case of knowledge. He carefully examines the grammar of know' and 'understand' and helps us to recognise that knowing Another problem with attempts to reduce social sciences

routence, Oxford: Blackwell, 2003, p. 358. Honnott, M. R. and Hacker, P. M. S. Philosophical Foundations of New-" This will be discussed in the following section.

allum (Dupré, J. The Disorder of Things, Cambridge MA: Harvard University Press, 1993, pp. 89-94). Jeen several versions of materialism in his chapter on reduction and materidiscussion of materialism in The Disorder of Things. Dupré discusses and re-"Hennett and Hacker's discussion of materialism leans on John Dupré's

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one knowing the alphabet is that they can write or say 'A, B, C, criterion is not the one we would use, since even if the brain ing physical state or disposition. But it seems that the second D, E...' etc.) and (ii) the criteria for identifying the correspondalphabet we would not take the presence of the state to indicate were in a particular physical state whenever someone recited the knowledge if someone wrote 'A, D, F, Z, 3' when asked to write categorially distinct from the usual candidates that reductionists disposition, knowledge is akin to an ability³², and an ability is data). Following Wittgenstein, Bennett and Hacker note, «[t]he refer to (cells, molecules, brain states, physical things, or sense the alphaber31. Rather than being reducible to a physical state or criteria of identity for mental states, events and processes differ attributes are attributable to a person or to animals but neurocesses»33. This should be clear from the fact that psychological from the criteria of identity for neural states, events and proexample, someone might believe that voting to leave the Europhysiological attributes are attributable to their brains³⁴. So, for pean Union was the right thing to do in the recent referendum in the United Kingdom. I attribute that belief to them (not to because they say that they believe that voting to leave the E. U. linguistic behaviour. I attribute that belief to them, most likely, their brain) on the basis of their behaviour; particularly their was right and I have no reason to doubt that they believe that. However, I do not attribute brain states or processes to them on the basis of their linguistic behaviour and those brain states or

³¹ See Wittgenstein, L. Philosophical Investigations, §149.

³³ Bennett, M. and Hacker, P. M. S. Philosophical Foundations of Neuro-32 Wittgenstein, L. Philosophical Investigations, §150.

science, pp. 360-1.

can one say: it has sensations; it sees; is blind; hears; is deaf; is conscious or living human being and what resembles (behaves like) a living human being 34 See Wittgenstein, L. Philosophical Investigations, §281: «...only of a

do you believe the football game between Sporting Lisbon and neural states. So, for example, it does make sense to ask 'where propriately by saying 'in my head', but by something like 'at the Benfica will take place?' but this question is not answered apbut they are not answered in a way that suggests that beliefs are cannot be said to have a location (at least not in the same way) processes are states of that person's brain and not of the person leave the EU?' Some questions sharing this form do make sense It makes no sense to ask 'where do you believe it was wrong to their neural states and events have a location but their beliefs The person's beliefs cannot be neural states or events because

vincingly that ecology is not reducible to any level below biolocannot all be reduced to physics. John Dupré has argued connot reducible to natural sciences but natural sciences themselves be reduced to physics. driven by changing human interests and there is no single privthat categorization in biology and much of the rest of science is reason to think that it cannot be reduced to physics, namely gy³⁵, and that there are various problems with reductionist proileged taxonomic scheme in biology in terms of which it coulc has not been shown to be reducible to physics and we have gooc jects in genetics³⁶. There have been successful reductionist projects but these successes have been very local. Biological science It is also worth noting that not only are social sciences

about philosophers' preoccupation with the method of science sage cited above (footnote 10), Wittgenstein says that his worry causes of philosophical confusion. In the Blue Book, in the pasnomena in one area to phenomena in another was one of the is, at least in part, a worry about «the method of reducing the Wittgenstein thought that the temptation to reduce phe-

MA, 1993, pp. 107-120. 35 Dupré, J. The Disorder of Things, Harvard University Press: Cambridge

³⁶ Ibid. pp. 121-145

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explanation of natural phenomena to the smallest possible number of primitive natural laws...» and that «...it can never be our ophy is descriptive, that is it describes norms of representation [i.e. philosophers'] job to reduce anything to anything». Philoswith the aim of getting clear about the meaning of problematic sophical problems³⁷. terms in order to get rid of the confusion at the root of philo-

III. Reasons and Causes

As mentioned in the introduction, one of the debates that is relevant to the question of whether the social sciences are conapproach is to claim that human actions are distinct from habits explanations in terms of reasons are causal explanations. One tinuous with the natural sciences is the debate about whether of animals. Peter Winch, a Wittgensteinian philosopher, uses this distinction is to compare human activity with the activities which influence our behaviour causally. A way of bringing out the example of a dog learning to balance sugar on its nose and this case the dog has been trained into a habitual response and holding it there until its owner issues a command to eat it. In cannot be said to be reflectively following a rule. Like rule-following cases the dog might be said to have done something correctly or incorrectly but this is only because we are applying This is unlike the case of a human being continuing the series human norms analogically to animals, according to Winch38, of natural numbers beyond 100 upon being ordered to do so I have been taught»39. way, whereas I know the right way to go on on the basis of what because, «...the dog has been conditioned to respond in a certain

³⁸ Winch, P. The Idea of a Social Science, p. 60. 37 Wittgenstein, L. The Blue and Brown Books, p. 18.

to this day⁴¹. tions, Reasons, and Causes' published in 1963⁴⁰. The arguments ence. A seminal anti-Wittgensteinian paper, in opposition to the causes, has moved on since the time of The Idea of a Social Scibetween Davidsonians, Wittgensteinians, and others, continue kind of view that Winch presents, is Donald Davidson's 'Achabitual animal behaviour and between reasons, motives, and Winch makes between rule-governed human behaviour and The debates in philosophy about the distinctions that

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as being scientific because: be defended by followers of philosophers like John Stuart Mill human behaviour in terms of institutions and rules might still natural scientists. However, Winch thinks that explanations of understood in terms of the causal generalizations favoured by rule-governed behaviour suggest that human activity cannot be The considerations about differences between causal and

- (1) «...an institution is, a kind of uniformity»
- (2) «...a uniformity can only be grasped in a generalization.»

grasping empirical generalizations which are logically on a footing with natural science» (Conclusion) «...understanding social institutions is still a matter of

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of criteria of sameness. To characterize something as going on in as being the same by one criterion might not be characterized a uniform manner is to characterize it as being the same in cerbecause where we speak of uniformities we must have some kind as being the same by another. For example, someone looking at tain respects throughout time. However, what is characterized two pictures (one picture of an African elephant and one of an an elephant, however, we might say that they depict different elephant. Someone who is asked whether the two pictures are species; one is an African elephant and another is an Indian Indian elephant) might say that both depict the same creature, ing. They might respond that they are not the same because the the same would likely be confused until they are told something further about the criteria they are supposed to apply in deciddimensions of the pictures and say the second is larger than the pose of the animal is different in each, or they might refer to the However, this argument is defective according to Winch

whether something counts as 'going on in the same way' (as in the use of the word 'same' are interwoven». 42 What this means social context of common activity»⁴³ and so to decide the nature cases when we are asked to continue a series of numbers) we is that if we are to decide whether two things are the same or one sort or another. And, as Winch says, «...rules...rest on a must do so by reference to a definition or a criterion - a rule of ities which it involves and also at the rules embedded in those of a particular field of study we must look at the kind of activthe same kind or not, or whether they continue to be the same activities which tell us whether the objects of the study are of throughout time. As Wittgenstein says, «[t]he use of the word 'rule' and

Vol. 60, No.23, 1963, pp. 685-700 40 Davidson, D. 'Actions, Reasons, and Causes', The Journal of Philosophy,

millan, 2013 and Tanney, J. Rules, Reason, and Self-Knowledge, Cambridge salism and Anti-Causalism in the Philosophy of Action, London: Palgrave Mac-Harvard University Press, 2013 41 See, for example, D'Oro, G., and Sandis, C. Reasons and Causes: Cau-

⁴² Wittgenstein, L. Philosophical Investigations, §225

⁴³ Winch, P. The Idea of a Social Science, p. 84

scientists and by those engaged in fields concerned with huologists but also the rules governing the behaviour of those that scientists. However, in the case of those studying human activity are, for example, the grammatical rules which constitute scienrules which we must consider in thinking about natural sciences on) then we find that the things studied differ in each case. The man activity (psychology, history, sociology, literature, and so thing' in relation to that kind of activity»44. rules, «which specify what is to count as 'doing the same kind of to Winch, that tell us about the nature of sociology. It is those the sociologist studies. It is the second set of rules, according we must consider not only the rules of the activities of the socitific concepts, and the rules governing the procedures of the If we look at the kinds of activities engaged in by natural

studies⁴⁵. Explanation in sociology is often not like the causa that it is not scientific at all. explanations of natural science. However, that does not imply engineer's understanding of the mechanical systems which he neer's understanding of his colleagues activities than it is like the «...understanding of social phenomena is more like the engimechanism. However, if Winch is correct then the sociologist's gued that studying human society is like studying a complicated kinds of activities are quite different. John Stuart Mill had arbetween social fields and the natural sciences is that the two The significance of this in thinking about the relation

Is Winch Correct? Objections to Winch (1): Davidson

which he said were causal, from explanations in terms of rules, which he said were non-causal. Donald Davidson, in his 1963 Winch distinguished explanations in terms of habituation,

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paper 'Actions, Reasons, and Causes' argued, pace Winch, that explanation of human action citing the agent's reason for their son argues for this first of all by pointing out that the division erned) «is a species of ordinary causal explanation» 46. Davidaction (i.e. the kind of action that Winch said was rule govterms of causes is not obviously mutually exclusive. It may be between explanations in terms of reasons and explanations in that nonteleological causal explanations do not have features necessarily-causal»47. tions in terms of reasons have a justificatory element, nonethethat explanations in terms of reasons do, namely that explanaless, «...it does not follow that the explanation is not also-and

argument for this is that people can have a reason to do someing that explanations in terms of reasons are causal. Davidson's the claim that it is not obvious that explanations in terms of reasons are not causal. He gives an argument in favour of thinkarm and wave it around outside of their car window in order to an action intelligible. For example, somebody might raise their Several different reasons in a particular case could serve to make thing and yet that reason was not the reason why they did it. greet a friend or in order to signal a turn or in order to cool their at him', or 'my hand was uncomfortably hot having been on they might respond 'I saw my friend on the corner and waved it around outside of their car as they drove around a bend and hand. We might ask why somebody raised their arm and waved agent's reason from amongst the reasons that they had, which the warm steering wheel and so I wanted to cool it down' or 'I wanted to signal that I was turning'. How do we pick out the might have served to make the action intelligible? - Davidson's Davidson also goes further. He doesn't rest satisfied with

⁴ Winch, P. The Idea of a Social Science, p. 87.

⁴⁵ Winch, P. The Idea of a Social Science, p. 88.

⁴⁶ Davidson, D. 'Actions, Reasons, and Causes', The Journal of Philosophy,

Vol. 60, No.23, 1963, p. 685. Vol. 60, No.23, 1963, p. 691. 47 Davidson, D. 'Actions, Reasons, and Causes', The Journal of Philosophy.

action it explains is the idea that the agent performed the action the relation between reason and action as causal⁴⁸ to «account for the force of that 'because'» we should think of because he had the reason». And Davidson thinks that in order answer is that «[c]entral to the relation between a reason and an

a conclusive argument in favour of construing the relation beand contexts because «the relevant pattern or context contains ty an alternative pattern of explanation⁵⁰ his opponents are to dispute that, he says that they must identiplanation in terms of reasons is a kind of causal explanation. If he has nonetheless provided some reason for thinking that extween reason and action in causal terms but it seems as though both reason and action»⁴⁹. Davidson might not have produced relation between reason and action by talking about patterns ans (including people like Winch), have not accounted for this Davidson argues that his opponents, the Wittgensteini-

philosophy departments around the world. Science and non-Wittgensteinian thought now predominates in bate has moved on since Winch published The Idea of a Social to defend must now deal with Davidson's arguments. The dewants to defend a position along the lines that Winch wanted terms of reasons. What this demonstrates is that anyone who that many philosophers nowadays think about explanations in ble and have been enormously influential in terms of the way Davidson's anti-Wittgensteinian arguments are formida-

tions in terms of reasons and she has defended the Wittgen up a powerful case against Davidson's conception of explana-Over the course of the past two decades Julia Tanney has built that a defence of ideas in the spirit of Winch cannot be given However, that is not to say that Davidson is correct and

> steinian view that Davidson attacked. She has written a series the recent volume, Rules, Reason, and Self-Knowledge⁵¹. of articles about reasons and rule-following that are collected in

ney examines various cases where somebody had a reason but son suggested seems to call for thinking of the relation between did not act for that reason. This is the kind of case that Davidtion because they had the reason'. Tanney denies that we have to the word 'because' where we say 'the agent performed the acreason and action in causal terms; to account for the force of and values into the 'anaemic' analysis of reasons" What needs cases, instead «we just need to introduce judgements, weights, bring in the notion of causation in order to account for these to be added in such cases is not the notion of causation but "a that they had by saying that the reason they acted on carried someone acted for one reason rather than some other reason more complex justificatory machinery»53. We can explain why more weight for them than the others, or by adding something to the account about the agent's values (or both). In her article 'Why Reasons May Not Be Causes'52 Tan-

ney rises to that challenge in her paper, 'Reasons as Non-Causal son and action in something other than causal terms and Tanof explanation that accounts for the relationship between reaa reason and (2) the action that it is the reason for is not causal Context-Placing Explanations'54. If the relationship between (1) Davidson challenged his opponents to identify a pattern

Vol. 60, No. 23, 1963, p. 691. 48 Davidson, D. 'Actions, Reasons, and Causes', The Journal of Philosophy

⁴⁹ Ibid. p. 692.

⁵¹ Tanney, J. Rules, Reason, and Self-Knowledge, Cambridge: Harvard Uni-

versity Press, 2013. 52 The article forms chapter 5 of Rules, Reason, and Self-Knowledge, pp.

⁵³ Tanney, J. Rules, Reason, and Self-Knowledge, Cambridge: Harvard Uni-

and was reprinted as chapter 7 of Rules, Reason, and Self-Knowledge, Camthe Explanation of Action, London: Palgrave Macmillan, 2009, pp. 94-111 versity Press, 2013, p. 109. bridge: Harvard University Press, 2013, pp. 149-170 54 This paper was originally published in Sandis, C. (ed.) New Essays on

occurrences causally related to each other. Tanney suggests, because they do not require two independent event in context and make sense of it. They are also similar, and so an explanation is called for⁵⁶. Explanations in terms of on the board by the teacher) which has not been understood a case of the model of causation Davidson subscribes to where written on the board. They might ask one of their classmates out of a chemistry classroom and seeing the letters 'c', 'a', 't' similar to other kinds of explanations that are clearly not causal. reasons are similar to this in that what they do is to place an the causal relation. In this case there is just one event (writing there must be two logically independent events entering into An example she gives to illustrate this is of somebody walking tions Tanney suggests that explanations in terms of reasons are assimilating explanations in terms of reasons to causal explanathe classroom before they finished writing?. This is clearly not their classmate could explain what was going on by saying that tions of motives, intentions and reasons explain a performance then what is it? Tanney explains that, «in many cases attributhe teacher was starting to write the word 'catalyst' and you left why did the teacher write the word 'cat' on the board?' and by characterizing it as an action of a certain kind»55. Rather than

this in turn undermines reductionists who think that this kind to explain things simply in terms of what they are made of and tives) undermines the kind of materialism that says that we are explanations in terms of reasons (and in terms of goals and mocauses gives us some reason to think that social sciences are not like natural sciences. As noted in section II, the existence of reasons are categorially distinct from explanations in terms of The fact that explanations of human action in terms of

versity Press, 2013, p. 154. 55 Tanney, J. Rules, Reason, and Self-Knowledge, Cambridge: Harvard Uni-

versity Press, 2013, pp. 156-7. 56 Tanney, J. Rules, Reason, and Self-Knowledge, Cambridge: Harvard Uni-

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of materialism lends support to their view. Thus far we have two of explanations to the natural sciences, namely explanations in to natural sciences (section II) and they employ different kinds piece with the natural sciences. Social sciences are not reducible broad reasons for rejecting the view that social sciences are of a sciences are like natural sciences by claiming that they employ terms of reasons, rules, motives, and so forth (section III). In the the same methodologies. next section I will examine whether we might claim that social

IV. METHODOLOGY IN THE NATURAL AND SOCIAL SCIENCES

people to become reductionists. The enormous progress made in methods appropriate for use in the social sciences are driven propriate for use in the social sciences and that they are the only Claims that the methodologies of the natural sciences are apthose methods in areas other than natural science. The rejection the natural sciences suggests that there is something right about by similar kinds of considerations to those that have motivated we should use the methods of the natural sciences to study sciences, namely physical things, then they should use the same social sciences study the same kinds of things as the natural kind of monism, namely materialism or physicalism, and if of dualism has led people to think that they should adopt a the methodologies used in them and hints at the desirability of states or claims about ethics and so all we can do in these areas cannot verify claims about, for example, other people's mental social phenomena is verificationism. We might think that we kinds of methodologies. Another motivation for the claim that iour (construed in physicalist terms). The logical positivists aris study relevant quantifiable physical attributes such as behavgued that ethics as traditionally conceived was unverifiable and

a machine is tested to measure its lifting effect»57 era in which, «[i]nstead of the priest we find the physiological should be replaced by science. Otto Neurath heralded a new physician and the sociological organizer. Definite conditions are tested for their effect upon happiness (Glückswirkungen), just as

entists have also had success by using explanations of phenomwithin their domains include using observation and experiment to quantify and compare things. ena in terms of their causes and by using mathematical notions case (which me might then test using further observations). Scible) or they might lead us to hypothesise that something is the infer that something is the case (perhaps something unobserva-Observations might give us knowledge or they might lead us to A method is a way of establishing or accomplishing some-The ways in which the natural sciences establish truths

observation, the character of the observation is different in each tives for human action rather than the causes of events involvthem. Although social sciences, like the natural sciences, involve man beings are asked about the things they do and why they do involves questionnaires, surveys, and interviews, in which hureflect the fact that they are investigating the reasons and moicant differences in the methods used by social scientists which motives, and their goals. This suggests that there will be signifexplanations within the social sciences which are not causal exthat they can sometimes quantify the things they are observ-Coming to understand human action through observation in ing non-human agents. So, for example, social science research the reasons that people have for doing the things they do, their planations. In the social sciences we explain actions in terms of the basis of observations. However, as noted above, there are ing, and that they can test hypotheses that they formulate on It is certainly true that social scientists make observations

> and the explanations arrived at by social scientists are not nomovolves knowledge of social practices, norms, and conventions of human behaviour or of human psychology have been discovered and we have no good reason to think that they will be. logical explanations as they are in the natural sciences⁵⁸. No laws

categorially distinct from the methods employed by those workifying concepts by presenting overviews of their grammar, are eses or reports of observations. They are not justified or tested ing in the natural sciences. Grammatical claims are not hypothscientific investigation. ophy»59. Getting clear about the meaning of the expressions one here should be no theories, and nothing hypothetical, in philosby reference to empirical reality at all. As Wittgenstein said, «[t] uses is something that one should do before one embarks on any Moreover, the methods employed by philosophy, of clar-

gress made by science? Problems with materialism have already with good reason. Wittgenstein made sharp criticisms of the been discussed in section II (iii) in discussing problems with the same methods - verificationism, materialism, and the prothe motivations for thinking that perhaps they should employ matter of fact, employ a variety of different methods. What of see is bare behaviour (although Wittgenstein's criticisms have view that the 'inner' world is hidden from us and all we can by the logical positivists is now widely rejected by philosophers reductionism. Verificationism, especially the variety presented infer that somebody is in pain when we seem them stub their still not been heeded by many philosophers today). We do not So it seems that natural sciences and social sciences, as a

⁵⁷ Ibid. p. 50.

Neuroscience, Oxford: Blackwell, 2003, pp. 362-366 for more on this. 58 See Bennett, M. R. and Hacker, P. M. S. Philosophical Foundations of

M. S. Hacker and Joachim Schulte, Oxford: Wiley-Blackwell, 2009, §109. P. M. S. Hacker and Joachim Schulte, translated by G. E. M. Anscombe, P. 59 Wittgenstein, L. Philosophical Investigations, Revised fourth edition by

sciences should be the same. The issue of progress in the social and natural sciences will be discussed in the next section below So neither materialism nor verificationism provide us with good behaviours are (defeasible) criteria for someone being in pain. an interence, e.g. when we see a packet of paracetamol opened we can distinguish that case from one in which we do make reasons for thinking that methodology in the social and natural connection between pain and pain behaviour, namely that pain next to a half drunk glass of water on the table. There is a logical toe and cry⁶⁰. In that case we can see that they are in pain and

V. Progress

man behaviour) which he thinks has not progressed in 2,500 of psychological concepts, which he takes to be a theory of hu-'folk psychology' (the name he gives to our ordinary framework our brains and their mental constitution»61 and the philosopher try as well as by the lack of agreement amongst social scientists trast with rapid developments in physics, biology, and chemis-Paul Churchland has lamented the lack of progress made by poverty of the results» in philosophy «in terms of understanding academic working in neuroesthetics, has complained about «the by contrast with natural scientists. For example, Semir Zeki, an emulate the natural ones in one way or another. Academic phiural sciences is one of the motivations to have the social sciences psychological theorising and philosophical argument by conlosophers and scientists have been unimpressed by the results of As already noted above, the impressive progress made in the nat-

> superseded by developments in science. Zeki thinks that neuyears⁶². More recently the physicist Stephen Hawking has derobiology should take over problems about the mind (as well clared that «philosophy is dead» and claimed that it has been as problems concerning justice and honour) from philosophy, from?' and leave them to science⁶³. up on questions like 'why are we here?' and 'where do we come psychology, and Hawking thinks that philosophers should give psychology) should be abandoned in favour of a neuroscientific work of psychological concepts as well as concepts employed in Churchland thinks that 'folk psychology' (our ordinary frame-

of progress in philosophy. Philosophers still puzzle over Zeno's paradoxes from 2,500 years ago. There are contemporary Arissimilar attempts. Is it any wonder that people like Hawking to define knowledge and philosophers today are still making see and hear. More than two millennia ago Plato made attempts about our senses and by disagreements about what it is that we totelian ethicists but there aren't any contemporary Ptolemathink that philosophy might as well just be abandoned? ic scientists. Philosophers are still troubled by sceptical doubts There is surely something to these worries about a lack

the 'traps' set by language - the features of language that cause that result from misunderstanding certain concepts, and that is that these problems are conceptual problems, i.e. problems that philosophical confusions have endured for millennia. It confusion - have remained in place: Ludwig Wittgenstein had an explanation for why it is

Ibid. §246, §§250-251, §253.

tions of the Royal Society B 354 (1999), pp. 2053-65. 61 Zeki, S. 'Splendours and miseries of the brain', Philosophical Transac-

panion to the Philosophy of Mind, Oxford: Blackwell, 1994, pp. 310 f. 62 Churchland, P. M. 'Folk psychology', in S. Guttenplan (ed.), A Com-

Stephen-Hawking-tells-Google-philosophy-is-dead.html (accessed 24th 17th May 2011, http://www.telegraph.co.uk/technology/google/8520033/ See 'Stephen Hawking tells Google «philosophy is dead»' in The Telegraph, 63 Hawking made these claims at Google's Zeitgeist conference in 2011.

One keeps hearing the remark that philosophy really makes no progress, that the same philosophical problems that had occupied the Greeks are still occupying us. But those who say that do not understand the reason it is // must be // so. The reason is that our language has remained the same and seduces us into asking the same questions over and over again. As long as there is a verb 'to be' which seems to function like 'to eat' and 'to drink', as long as there are adjectives like 'identical', 'true', 'false', 'possible', as long as one talks about a flow of time and an expanse of space, etc. etc. humans will continue to bump against the same mysterious difficulties, and stare at something that no explanation seems capable of removing⁶⁴.

expression is ordinarily used, and perhaps contrasting it with are causing confusion, showing the way in which the relevant describes the correct use of words like 'know', 'believe', 'cerquestion from Augustine, 'how is it possible to measure time?'66 problems from the pre-Socratic philosopher Heraclitus 'Can other similar expressions or giving examples of conceptual conveyable representations clarify the meaning of expressions that out some of the confusions that have troubled philosophers over failed to recognise it as such. In his later work Wittgenstein laid in philosophy but that some philosophers and scientists have tainty' and 'doubt' in dissolving sceptical problems⁶⁷, discusses one step into the same river twice?365, clarifies a centuries old this is Wittgenstein's discussion of the concept of 'knowledge fusion and produce clarity and understanding. One example of nections with other expressions – whatever helps to reduce con-'surveyable representations' of the problematic expressions. Surthe centuries and contrasted their confused formulations with (discussed above, in section II (iii)). Elsewhere he dissolves It could be claimed that progress, of a sort, has been made

problems resulting from thinking of sensations as private⁶⁸, as well as many other philosophical problems from over the past centuries.

discoveries and devising ever more powerful theories, progress in philosophy consists in clarification of concepts which are cepts employed in neuroscientific and psychological research and of neuroscience. What philosophers can do is clarify condiscover truths about our brains since that is the task of biology at all. Philosophy should not be blamed for failing to uncover or causing puzzlement and does not involve constructing theories and thus help to formulate appropriate questions and to ensure our thought and knowledge about the world. It cannot contribtion to our reflective understanding of the logical structure of phy's task, «is to clarify the conceptual scheme in terms of which that the results of research are expressed clearly. As Bennett and (and in other areas of scientific and social scientific research) ute to knowledge about the brain, and it should not be expected our knowledge is articulated. Its achievements are its contribu-Hacker say in Philosophical Foundations of Neuroscience, philosoto. Philosophers are not closet scientists...»⁶⁹ Whereas progress in science consists in making empirical

People like Semir Zeki, Paul Churchland, and Stephen Hawking are confused if they think that philosophy is to be blamed for failing to solve problems that science might solve, since philosophy is of a different nature to the natural sciences. We hope for increases in our knowledge and improvements in theory from science; discarding falsehoods and accumulating truths along the way. However, we cannot hope for such things from philosophy because philosophy is not a cognitive discipline. It aims at developing our understanding rather than contributing to our knowledge of the universe and the natural

⁶⁴ Wittgenstein, L. Big Typescript, pp. 423-424.

⁶⁵ Wittgenstein, L. Typescript 220, §111.

⁶⁶ Wittgenstein, L. The Blue and Brown Books, p. 26.

⁶⁷ Wittgenstein, L. On Certainty.

⁶⁸ See, for example, Wittgenstein, L. Philosophical Investigations, §246.

have been clarified rather than in terms of knowledge gained. world. Its progress can be measured in terms of problems that

that empirical theories in psychology have advanced71. some kind of progress from theories that employ psychological which learning transforms us if he is correct in thinking that sophical or conceptual problems). For one thing he cannot fault sions. Churchland's position involves various paradoxes (philoterms - from psychological theory - and it is indeed the case expect theoretical progress from them although we might expect logical expressions are employed in formulating the problems⁷⁰ psychological expressions should be eliminated, since psychotheories might be formulated employing psychological expresthat it can be replaced by neuroscience. Our ordinary psycho-Given that our ordinary concepts are not a theory we cannot 'folk psychology' for failing to explain memory or the ways in logical expressions do not constitute a theory, although various As for psychology, Churchland is confused if he thinks

same, he thought72. But Wittgenstein objected that, «[t]he congists have thought. For example, Wolfgang Köhler thought that being a 'young science'; its state is not comparable with physics, fusion and barrenness of psychology is not to be explained by its to quantitative measurement and psychology can hope to do the it similar to sciences like physics in the way that some psycholo-Physics had succeeded in moving from qualitative observations psychology in the present day was like physics in its infancy. Psychology cannot be reduced to neuroscience and nor is

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of psychology - mental states, events, and processes - are not perimental methods and conceptual confusion...»73. The 'objects' for instance, in its beginnings... For in psychology, there are exengage in systematic gathering and accumulation of knowledge, ever, none of this implies that psychology is not a science at all. that someone is sad⁷⁴ or that they are fearful⁷⁵ or in pain⁷⁶. Howtrons. As Wittgenstein observed, we can see (at least sometimes) hidden to others and only observable in their effects, like elecand psychologists might engage in experiments and gather data Psychology can be said to have an empirical subject matter, to from those experiments.

of explanations, we should not expect exactly the same kind of plines. Given that they are not reducible to natural sciences, empirical subject matter, to aim at truth, to gather data and to our stock of knowledge; these disciplines can be said to have an that they employ different kinds of methods and different kinds human geographers, anthropologists and sociologists do add to progress from them. However, political scientists, economists, make useful generalisations from that data. Similar things might be said about other social disci-

and Churchland on pp. 366-377 and 396-407 of Philosophical Foundations present other similar criticisms. There are detailed objections to both Zeki Neuroscience, pp. 376-7 where they develop this criticism of Churchland and 70 See Bennett, M. R. and Hacker, P. M. S. Philosophical Foundations of

Neuroscience, p. 373 for a discussion of progress in psychology. 71 See Bennett, M. R. and Hacker, P. M. S. Philosophical Foundations of

⁷² See chapter 2 of Köhler, W. Gestalt Psychology, Liveright: New York,

sophical Investigations, 4th edition, §371. 73 Wittgenstein, L. 'Philosophy of Psychology - A Fragment' in Philo-

Blackwell: Oxford, 1982, §767. G. H. Von Wright and H. Nyman, tr. C. G. Luckhardt and M. A. E. Aue, 74 Wittgenstein, L. Last Writings on the Philosophy of Psychology, Vol. 1, ed.

E. M. Anscombe and G. H. Von Wright, tr. G. E. M. Anscombe, Blackwell: Oxford, 1980, §§1066-8. 75 Wittgenstein, L. Remarks on the Philosophy of Psychology, Vol. 1, ed. G.

⁷⁶ Wittgenstein, L. Philosophical Investigations, §246

VI. Conclusion

amounts to something different than progress in philosophy). sciences, and that the kind of progress that might be expected and goals), that the methodologies involved in social sciences are sciences (i.e. explanations of action in terms of reasons, motives of saying that social sciences are not reducible to natural sciences be expected in natural sciences (and progress in social sciences at least sometimes different to those employed in the natural in social sciences differs from the kind of progress that might that they involve different kinds of explanations to the natura In the preceding sections I have presented arguments in favour

social studies, the responsiveness to evidence in social studies, calling something a science. call social studies social sciences. However, they reject this on amongst those studying the social realm might be reasons to and the willingness to learn from other modes of enquiry found the grounds that neither of these considerations is sufficient for book they consider the possibility that the analytical rigour of no such thing as a social science. In the introduction to the due to these considerations about reductionism etc. there is Phil Hutchinson, Rupert Read, and Wes Sharrock argue that In their book There is No Such Thing as a Social Science

scientific is that calling something 'scientific' plays a role in leof considerations alluded to by Hutchison, Read and Sharrock gitimising that discipline. As John Dupré has recently pointgether with other considerations they are jointly sufficient) might nonetheless be jointly sufficient (or it may be that toare not individually sufficient to call something a science they that there is such a thing as a social science. Although the kinds One reason to claim that social studies are, or at least can be, to stand by the claim that social sciences are indeed scientific -In contrast to Hutchinson, Read and Sharrock, I want

study or that they are any less valuable than the natural sciences. come under attack from governments for being unscientific⁷⁸. and we live in a world where social sciences and humanities ed out, the term 'unscientific' is used as a term of criticism⁷⁷ other as economic, political and social beings are all immensely human society. Understanding ourselves as human beings and man geographers uncover truths and increase our knowledge of Psychologists, economists, anthropologists, sociologists and huvarious ways does not imply that they are illegitimate courses of being able to make progress in the way that we relate to each The mere fact that social sciences are unlike natural sciences in

prior to studies in the natural sciences: made was that the objects of study in social studies are in a sense phasised the importance of social studies. One point that he F. R. Leavis, mentioned in the introduction above, em-

without which the triumphant erection of the scientific edifice would more basic work of the mind of man (and more than the mind), one ...there is a prior human achievement of collaborative creation, a cluding language⁷⁹. not have been possible: that is the creation of the human world, in-

normative, but this does not make the science of linguistics impossible.» particular society?» and answers «I cannot see why. Language is profoundly in principle unscientific about the delineation of the rules that exist in a of the Social Sciences, May 2016, pp. 8-9. Dupré asks «Is there...anything 77 Dupré, J. 'Social Science: City Center or Leafy Suburb', Philosophy

tion/2015/mar/29/war-against-humanities-at-britains-universities accessed in The Guardian, 29th March 2015 https://www.theguardian.com/educa-26th September 2016. 78 See, for example, 'The war against humanities at Britain's universities'

Collini, Cambridge: Cambridge University Press, pp. 73-4. in Two Cultures? The Significance of C. P. Snow with Introduction by Stefan 79 Leavis, F. R. 'Two Cultures? The Significance of C. P. Snow (1962)'

a 'rising standard of living', as Snow did, fails to engage with es and the scientism of C. P. Snow that Leavis was responding tant and so worthy of the title. plines are to be called 'sciences' partly because they are imporquestions about what makes life worth living. So, social discito does not recognise the importance of this. Simply aiming at rich, interesting, happy human lives is the work of social sciencmeaningful, happy, and rich as well as about how to bring about and more generally about what makes human lives significant, natural sciences aim at. Thinking carefully about human end es by helping to decide the ends which (largely instrumental) Social disciplines can work in conjunction with natural scienccluding language, was immensely important for various reasons. Leavis thought that the study of the human world, in-

of sorts. In his recent book The Puzzle of Modern Economics: chology include Thinking About Psychology: The Science of Mind about their discipline as a science. Recent introductions to psythat physics or chemistry is»81. Psychologists also very often talk recognising that «economics can never be a science in the sense Ha-Joon Chang considers his discipline to be a science despite from natural sciences in many ways⁸⁰. Similarly, the economist nomics is a science despite recognising that economics differs Science or Ideology? Roger Backhouse defends the idea the ecofor the most part, consider what they are doing to be science plines 'sciences' is that practitioners within these disciplines, Another consideration in favour of calling social disci-

Cambridge: Cambridge University Press, 2010. 80 Backhouse, R. The Puzzle of Modern Economics: Science or Ideology?

81 Chang, H-J. Economics: The User's Guide, London: Pelican Books

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and Behaviour⁸², and Understanding Psychology as a Science⁸³. ence incorporating departments of anthropology, economics, Universities throughout the world have faculties of social scibusiness, politics, psychology, sociology, and human geography by many of those who quite happily talk about social sciences84 from natural sciences in significant ways, since this is recognised use requires more than just showing that social disciplines differ that we ordinarily talk about them. A divergence from ordinary is fair to say that calling social disciplines 'sciences' is the way (and, less often, departments of history and/or philosophy). It

sponsiveness to evidence. The fact that people working in areas ciplines which, done properly, involve analytical rigour and resciences because they are empirical, knowledge producing, disciplines social sciences. Here I take social sciences to include and chemists are doing speaks in favour of calling those disbetween what they are doing and what biologists, physicists to be doing science despite, very often, recognising differences like economics, sociology, and psychology consider themselves tics, linguistics and sociology. However, there are some discieconomics, sociology, anthropology, human geography, policonfusion about concepts and the way to tackle those probout, many of the problems of philosophy are the upshot of sciences. Philosophy is one of them. As Wittgenstein pointed plines which do not fit easily into either the natural or social lems is not to look at empirical evidence but to get clear about So I conclude that social sciences deserve to be called

Psychology: The Science of Mind and Behavior, Worth Publishers, 2007. 82 Blair-Broeker, C. T., Ernst, R. M. and Myers, D. G. Thinking About

scientific and statistical inference, Palgrave-Macmillan: Basingstoke, 2008. 83 Dienes, Z. Understanding Psychology as a Science: An introduction to

the paper I have mentioned was given the title 'Wittgenstein and the Social ference/20-2, accessed 22/10/2016). Sciences' (see http://www.britishwittgensteinsociety.org/news/annual-con-84 The British Wittgenstein conference at which John Dupré presented

comfortably in either of those categories. There is such a thing also disciplines which are very worthwhile but which do not fit as a social science but we should be careful to keep an eye on the problematic concepts. Literature and literary studies are assimilate them in ways that lead to confusion⁸⁵ 86. differences between the various scientific disciplines and not

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as one keeps a clear view of what is thus named, and what its character is» doesn't matter whether social studies get called social sciences «...so long 85 Interestingly, even Hutchinson, Read and Sharrock suggest that it

support for my work while I have been at Universidade Nova. conserence, held at Universidade Nova de Lisboa on 6th September 2016, for to thank M. Gómez for his helpful comments after the event. I would also their comments on an earlier draft of this paper. In particular, I would like like to thank the Fundação para a Ciência e a Tecnologia for their generous 16 I would like to thank participants in the Dimensões da Epistemologia

Artículos / Articles

natural en el opúsculo Descriptio Globi Intellectualis de El legado aristotélico en la clasificación de la historia Francis Bacon

Universidad Complutense de Madrid Ana Maria C. Minecan

written 1612. It studies comparatively those elements of the Aristotelian-Thomist of philosophy at the universities of his time, such as the inclusion of theology under of individuals who are still in force at the thought of Bacon. Also it analizes those tradition concerning notions of regularity, commensurability and theoretical study lesser known works of Francis Bacon: the booklet Description of the Intellectual Globe, the category of philosophy and his considerations regarding the ability of man to points where the Baconian proposals meant a radical break with the existing system This article analyzes the problem of classification of natural history in one of the dominate, modify and recreate nature.

Francis Bacon, philosophy of nature, Aristotelianism, thomism, modern science.

una de las obras menos conocidas de Francis Bacon: el opúsculo Descripción del globo consideraciones en torno a la capacidad del hombre de dominar, modificar y recrear de su época, tales como la inclusión de la teología bajo la categoría de filosofía y las significaron una ruptura radical con el sistema filosófico vigente en las universidades lidad teórica y estudio de los particulares que siguen vigentes en el pensamiento de tradición aristotélico-tomista relativos a las nociones de regularidad, conmensurabiintelectual, escrito el 1612. Se estudian, comparativamente, aquellos elementos de la El presente artículo analiza el problema de la clasificación de la historia natural en la naturaleza. Bacon. Asimismo se subrayan aquellos puntos en los cuales las propuestas baconianas

l'rancis Bacon, filosofía de la naturaleza, aristotelismo, tomismo, ciencia moderna.

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el opúsculo Descriptio Globi Intellectualis de Francis Bacon. Dókos. Revista filosófica, 17-18, 🕥 Ana Maria C. Minecan, El legado aristotélico en la clasificación de la historia natural en 2016, 87-111. (ISSN 1889-0202, e-ISSN 1989-2020).

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δόκος δ' ἐπὶ πᾶσι τέτυκται. La conjetura, en cambio, responde a todos. Xenophanes *DK*, 34 [Sext. *Adv. Math.* VII 49]

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