

IS EVERYONE SELF-INTERESTED? HUME VERSUS MANDEVILLE

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Abstract David Hume has been largely read as a philosopher but not as a scientist. In this article I discuss his work exclusively as a case of science; in particular as a case of early modern science. I compare the combined moral psychology of self-interest and sympathy he argues for with the moral psychology of universal self-interest from Bernard Mandeville, presenting the controversy between the two as a case of theory choice under the normative methodology of the *vera causa* from the eighteenth century, using inductive support, *experimentum crucis* and simplicity as criteria. On all three criteria I conclude that Mandeville's theory of universal self-interest wins the controversy.

Keywords Theory choice - Moral psychology - *Vera causa* - Self-interest - Sympathy - Inductive support - *Experimentum crucis* - Simplicity

1. INTRODUCTION

David Hume, Adam Smith and Francis Hutcheson regarded the psychology of selfinterest advanced by Thomas Hobbes and Bernard Mandeville as the rival theory to be defeated; it was a theory making 'so much noise in the world', Smith reports (1790, p. 313). Hume positively praises Mandeville's theory and method in the *Treatise* (1739-1740, pp. 5, 407). This volume pays more attention to self-interest than *An Enquiry Concerning the Principles of Morals*, in which Hume discusses the disinterested passions of humanity and benevolence in more detail. Both Hume and Smith were highly critical of Mandeville's theory, which they considered to be 'malignant' and 'wholly pernicious' because it leaves no grounds for 'a pleasing sentiment of sympathy and humanity'. They actually allude to Mandeville with epithets such as 'sportive sceptic' and 'superficial reasoner', whose reasoning is 'ingenious sophistry' (Smith, 1790, pp. 308, 312; Hume, 1772a, pp. 35, 48, 54, 95)

Hume strongly criticises the self-interested individuals described by Mandeville who are 'monsters' 'unconcerned, either for the public good of a community or the private utility of others' (1772a, p. 48); they are replicas of Ebenezer Scrooge who even at Christmas shows no humanity, no concern for others (Dickens, 1843). In contrast, Hume describes a polite, sympathetic and utilitarian individual who, despite being self-interested, is capable of performing acts of disinterested benevolence and humanity; that is, a Scrooge who is morally reformed by secularised Christian values. Hume not only claims that true disinterested charity and beneficence exists grounded in the natural sentiments of humanity, but he also claims that these sentiments can 'overpower' and 'over-balance' self-interest (1772a, p. 77; 1739-40, p. 313).

The debate between the psychology of universal self-interest, and the combined psychology of self-interest and sympathy is about *true causes* or *true motives* of moral behaviour. This debate is concerned with the 'metaphysical' part of human psychology. That is to say, with unobservable entities and mental processes whose study Mandeville (1732a, p. 3) described as analogous to the study of the inner anatomy of the human body performed in medicine. Using the same naturalistic analogy from Mandeville, Hume explains that the moralist is a painter who is concerned with the beauty of moral behaviour, portraying it with 'the most graceful and engaging airs', whereas the moral anatomist is concerned with 'the most hideous and disagreeable' parts analogous to the 'the inward structure of the human body, the position of the muscles, the fabric of the bones, and the use and figure of every part or organ'(1772b, p. 8; 1739-40, p. 395). Hume did not consider himself to be a moralist but a moral anatomist; he did not write any substantive normative moral argument. This is why the moral philosopher Francis Hutcheson criticised the *Treatise* because of its lack of 'Warmth in the Cause of Virtue' (Greig, 1932, p. 32, Letter 13, 17th September 1739).

A choice made using epistemic criteria such as inductive support, experimetun crucis and simplicity holds important effects and it is highly relevant. It protects and empowers theories and scientists against political abuse and undue influence from state, religious and corporate institutions as well as from undue influence from rival scientists. Mandeville was called twice by the Grand Jury of Middlesex accused of 'running down Religion and Virtue as prejudicial to Society, and detrimental to the State' (Speck, 1978, p. 362; Bald, 2014, p. 105). His ideas were banned in courts and his books burned by executioners in the streets of France (Sedlacek, 2011, p. 185). He was challenged by Protestants, Catholics and atheists alike. His books remained in the Index Librorum Prohibitorum until its last publication in 1966. Besides Hume, Smith and Hutcheson; Bishop George Berkeley, Bishop Joseph Butler and Jean-Jacques Rousseau also joined as his opponents. Mandeville virtually lost the battle during those years, and for a long time after. Nonetheless, his theory remains relevant to the current debate in economics and political science, where self-interest and sympathy are debated as the right foundations of theories and policies (Arrow, 1977; Becker, 1976; Brennan and Buchanan, 1981; Downs, 1957; Harsanyi, 1977).

2. The Method of Psychology

Because the different passions and sentiments and their mutual operations cannot be observed, such a moral anatomy becomes metaphysics in search for the 'hidden truths' and 'the secret springs and principles' of the inward parts of human nature, which can only be discovered by 'painful' and 'abstruse' enquiry (Hume, 1772b, pp. 6, 10-11) Methodologically, the production of this new science represented a great challenge

because of the difficulty of producing accurate and reliable knowledge of unobservable entities and processes occurring in the mind by exclusively relying on observable behaviour. Indeed, Hume wanted to build this new 'science of man' as an 'accurate' and 'true metaphysics' of human nature based on 'experience and observation.' (1772b, pp. 6, 10; 1939-40, p. 4)

In the introduction to the *Treatise* and the opening section of the *Enquiry*, Hume states his commitment to the observational and experimental method with an explicit reference to Francis Bacon, and also by quoting Isaac Newton. He considers the introduction of the experimental method as a key methodological innovation in the study of morality, which would allow to treat 'passions, motives, volitions, and thoughts' as 'matters of fact' existing 'in the mind' just as it is done in physics with properties such as 'sounds, colours, heat, and cold', so that 'discovery in morals, like that other in physics, is to be regarded as a considerable advancement of the speculative sciences' (1739-40, pp. 301-302). In line with this methodological commitment, he explicitly appeals to three epistemic criteria in his attempt to refute Mandeville's psychological theory, namely inductive support, *experimentum crucis* and simplicity. All this seems to provide enough evidence for evaluating Hume's work as a case of early modern science. Therefore, the moral psychology he was erecting can be evaluated by looking into its epistemic merits and methodological grounds.

Mandeville himself explains the method he uses for producing his own psychological theory, he calls it the 'Method of reasoning from Facts *à posteriori*' (1729, pp. 175, 164) which also consists of reasoning from observation and experience. He also recognises reasoning from experimentation in chemistry as an *a posteriori* method, although he explains that experiments cannot be performed on the brain. Alluding to René Descartes, he rejects *a priori* reasoning by claiming that 'all our knowledge comes *à posteriori*, it is imprudent to reason otherwise than from Facts.' (1729, pp. 261, 186) He also makes an important distinction between 'conjecture' and 'knowledge', explaining that the latter provides certainty while the former only provides a degree of probability. (1729, pp. 163, 167, 263)

In this case, 'certainty' becomes a decisive epistemic criterion because a psychological theory consists of knowledge of unobservable processes and entities taking place inside the mind. Certainty has been a long-standing problem in psychology and across the social sciences, where an important distinction is made between the inside and the outside of any individual or collective action. This distinction has produced a methodological divide in the social sciences between methodological naturalism and hermeneutics, while in psychology a similar distinction created a divide between behaviouristic and cognitive psychology. Hume and Mandeville fall into the category of those scientists following naturalistic methods to learn about the inside of human action, that is to say, about mental entities and processes as causes for behaviour. Mandeville explicates his own *method of inference* to get knowledge of the mind by using an analogy with the knowledge on the inner parts and functioning of a spring-watch:

I don't believe there is a Man in the World of that Sagacity, if he was wholly unacquainted with the Nature of a Spring-Watch, that he would ever find out by dint of Penetration the Cause of its Motion, if he was never to see the Inside: But every middling Capacity may be certain, by seeing only the Outside, that its pointing at the Hour, and keeping to Time, proceed from the Exactness of some curious Workmanship that's hid; and that the Motion of the Hands, what number of Resorts soever it is communicated by, is originally owing to something else that first moves within. In the same manner we are sure that, as the Effects of Thought upon the Body are palpable, several Motions are produced by it, by contact, and consequently mechanically. (1729, p. 164)

Note that according to Mandeville only a 'middling certainty' can be attained on the knowledge about the mind. He explains why full certainty cannot be achieved, by pointing to two important methodological constraints related to the anatomy of the brain. First, he explains that the anatomist can only have access to the brain when it is already dead, so the main 'spring of life' is gone, and therefore a full understanding of the its functioning is not possible. The second constraint is set by the limited scope of macroscopic observation, which was constrained to large parts and organs such as nerves, blood vessels, folds and windings, while millions of small cells remain unobserved. Because of these two methodological constraints, the psychologist cannot gather the information needed for producing a theory with a higher degree of certainty. Therefore, the 'best Naturalist must acknowledge that he can only 'give any tolerable Guesses', or actually admit that in some cases 'as to the mysterious Structure of the Brain itself, and the Oeconomy of it, that he knows nothing' (1729, pp.165-166).

With those limitations, the inference to inner live processes and entities proceeds exclusively from observable behaviour. He is aware of the epistemic challenge this implies by explaining that 'it is impossible to judge of a Man's Performance, unless we are thoroughly acquainted with the Principle and Motive from which he acts' (1732a, p. 56). Therefore, by becoming thoroughly acquainted with the information available on the subjects, the scientist can only reach a 'middling' or reasonable degree of certainty.

I present the controversy between the moral psychologies from Hume and Mandeville as a problem of theory choice. Current epistemic criteria used for theory choice such as novel predictions, falsifiability or ontological heterogeneity can be inappropriate for a choice between moral psychologies of the eighteenth century. Prevention against any epistemic normative anachronism is important. Therefore, I use the three criteria used by Hume himself, namely inductive support, *experimentum crucis* and simplicity placed under the methodology of the *vera causa*, which in the late eighteenth and early nineteenth century became the systematised expression of the rules Isaac Newton advanced in the *Principia*. The *vera causa* methodological rules address epistemic concerns analogous to those of Hume and Mandeville concerning the knowledge of 'passions, motives, volitions and thoughts (1739-40, p. 301). By using these three criteria, the controversy between the psychology of universal self-interest from Mandeville, and

the psychology of natural self-interest and sympathy from Hume, becomes a standard case of theory choice.

This early modern controversy between these two psychologies not only has historical value because the debate about self-interest and unselfish behaviour or altruism continues. In recent years, social and public choice theories as well as neoclassical and welfare economics have been a main battle ground for this controversy. The controversy is also relevant today because some of the criteria used such as inductive support and simplicity are currently used in theory choice. Today, the inference to the best explanation and the realist argument on unobservable entities and mechanisms, addresses the very same problems the *vera causa* principle was trying to solve (see Harré, 1960; Thagard, 1978; Cartwright, 1983, pp. 87-99, and Lipton, 2004).

3. VERA CAUSA

To get true and accurate knowledge of unobserved entities and processes causally responsible for observable effects became a major challenge in the eighteenth century. Hume's main concern, and indeed the main problem for Newton and other natural scientists at the time, was about the criteria required for accepting any explanation based on unobservable entities. The rules of reasoning advanced by Newton constitute a response to this concern. Mandeville's methodological analogy with the inference to the inner pieces and functioning of a spring-watch, also reflects the same concern and awareness of the problem. Therefore, the epistemic justification of the existence and causal efficacy of gravitation, self-interest and sympathy became a main scientific challenge.

In the late eighteenth century this led to the development of the *vera causa* principle by Thomas Reid, John Hershel and Charles Lyell (Ruse, 1976; Laudan, 1982). This method was later used by Charles Darwin in his defence of genetic variation across very long periods of time as the true cause for the origin of new species, and migration as the true cause for the existence of colonies of the same species found in distant places (Darwin, 1859, pp. 352, 482).

The first rule of natural philosophy as stated by Newton dictates that 'No more causes of natural things should be admitted than are both true and sufficient to explain their phenomena. As the philosophers say: Nature does nothing in vain, and more causes are in vain when fewer suffice. For nature is simple and does not indulge in the luxury of superfluous causes' (1726, p. 794). By appealing to this methodological rule, Newton was trying to prove the existence of gravitation as the *vera causa* of the attraction between celestial bodies against the vortex theory advanced by Descartes which, by multiplying causes

unnecessarily, depicted nature as superfluous and idly complex.¹ Therefore, theoretical simplicity was not an instrumental principle but a realist one justifying the choice for theories with fewer unobservable entities.

Like Newton, Thomas Reid also defines the *vera causa* principle by using the two criteria of truth and causal sufficiency; he writes that 'when men pretend to account for any of the operations of nature, the causes assigned by them ought, as Sir Isaac Newton taught us, to have two conditions, otherwise they are good for nothing. *First*, they ought to be true, to have a real existence, and not to be barely conjectured to exist without proof. *Secondly*, they ought to be sufficient to produce the effect' (1785, p. 80). John Herschel explained that 'Newton has applied the term *verae causae*; that is, causes recognized as having real existence in nature, and not being mere hypotheses or figments of the mind' (1830, p. 144). As we know, Mandeville draws a similar distinction between 'conjectures' and 'knowledge', arguing that only 'middling certainty' can be attained in the knowledge of the passions and the mind.

Just as the controversy between Newton and Descartes was about the true causes of the same set of phenomena, namely the motion of the planets, the controversy between Hume and Mandeville was about the true causes of the same domain of human behaviour. Newton introduced the first rule to prove that his theory had only used a sufficient number of causes, whereas Descartes used more than a sufficient number of them. In spite of stating his commitment to Newton's method for the creation of psychology as a new science, Hume does not mention nor discuss Newton's first rule. Nonetheless, I believe the use of this rule for evaluating his moral psychology is both justified and adequate. To explain the same domain of human behaviour, Mandeville uses one cause or motive only, i.e. self-interest, whereas Hume uses two, i.e. self-interest and sympathy, that is, the sentiments of humanity and benevolence.

The actions from Greek and Roman characters such as Pericles, Marcius Berea Soranus, Publius Thrasea Paetus and King Henry IV of France are presented as examples of unselfish acts of patriotism, statesmanship and friendship motivated by sentiments of humanity and benevolence. The main problem with them is the lack of consideration Hume gives to the possible existence of self-interested motivations, which he could then refute. In contrast, Mandeville considers and refutes possible unselfish motivations for precisely the same kinds of actions Hume is using in support of his own theory.

Because of this refutation, Mandeville's theory must be chosen as the one meeting the *vera causa* principle by providing true, and only sufficient causes. Hume's theory loses the contest standing as a theory 'indulging in the luxury of superfluous causes', just like Descartes's vortex theory lost the debate against Newton's simpler theory of gravitation.

¹ See I. Newton, 1726, pp. 786-790, 939-944; R. Descartes, 1644, pp. 106-109, 188-191. Besides not being able to account for a number of data, Descartes's vortex theory was more complex. It postulated three different kinds of unobservable matter and stratified bands in each vortex, where heavenly and earthly bodies move down and around due to centrifugal forces.

This is shown in the paragraphs below where the cases of Pericles, Marcius Berea Soranus, Publius Thrasea Paetus and King Henry IV are discussed.

4. INDUCTIVE SUPPORT

The fourth rule of natural philosophy from Newton explains the epistemic power of induction as follows: 'In experimental philosophy, propositions gathered from phenomena by induction should be considered either exactly or very nearly true notwithstanding any contrary hypotheses, until yet other phenomena make such propositions either more exact or liable to exceptions. This rule should be followed so that arguments based on induction may not be nullified by hypotheses' (1726, p. 796). The refutation of Mandeville's psychological theory relies on the existence of acts of disinterested benevolence and humanity motivated by sympathy, which Hume explains is a natural component of the human mind. Because Mandeville's theory is universal, one case of disinterested benevolence is enough for refuting it. Hume, however, wants to do more than that because he is seeking to reduce the scope of self-interest by enlarging the scope of sympathy. He does this by producing as many cases as possible of disinterested benevolence and humanity.

The psychological capacity humans have for sympathising with others is the main foundation for any benevolent and humanitarian action. Hume defines sympathy as the 'communication' of the 'inclinations and sentiments' of others 'however different from, or even contrary to our own', so 'hatred, resentment, esteem, love, courage, mirth and melancholy; all these passions I feel more from communication than from my own natural temper and disposition', 'and 'tis certain that we may feel sickness and pain from the mere act of imagination, and make a malady real by often thinking of it' (1739-40, pp. 206-207). Within the different passions and inclinations sympathy may elicit, Hume selects only those related to humanitarian and benevolent actions.

There are hardly any cases of disinterested benevolence and humanity discussed in the *Treatise*, so specific cases can only be found in the *Enquiry*. There, Hume quotes statesmanship, patriotism, motherly love, friendship and love relationships as strong evidence for disinterested actions, which can prove the existence of sympathetic motives.

The first case he discusses is that of Pericles, the 'great Athenian statesman and general', who in his death-bed stopped his friends from paying public tribute to him by citing all his great achievements as a statesman. He described them as 'vulgar advantages' in comparison to the 'the most eminent' of his accomplishments, namely that 'no citizen has ever yet worne mourning on my account' (1772a, p. 8). Further cases include Marcius Berea Soranus, roman proconsul in Asia, and Publius Thrasea Paetus, roman senator and republican leader who rebelled against the emperor Nero; they were 'intrepid in their fate, and only moved by the melting sorrows of their friends and kindred. What

sympathy then touches every human heart!' (1772a, pp. 40-41). Then, he quotes the case of the mother who 'loses her health by assiduous attendance on her sick child, and afterwards languishes, and dies of grief, when freed, by its death, from the slavery of that attendance' (1772a, p. 93). And also friendship and love relationships when people love and care for others even at the expense of being hurt, like King Henry IV of France whose 'amours and attachments' 'during the civil wars of the league, frequently hurt his interest and his cause' (1772a, pp.64-650).

Hume argues that in all these cases, a sympathetic sentiment prompts humanitarian and unselfish actions, which benefit the citizens within a country, children within a family, and friends and lovers within a close circle. No self-interested motivation is considered, self-interest plays no role.

Unlike Hume, Mandeville does consider whether statesmen, patriots, mothers, friends and lovers act because of self-interested motives such as being flattered, adored and glorified. He argues for universal self-interest as the true explanation of these and other kinds of behaviour. In order to prove this, he discusses different social groups, giving special weight to those where true humanitarian and unselfish motivates are expected such as cardinals, nuns, friars, mendicant orders, mothers, soldiers, kings, ministers and members of the court.

Mandeville explains that cardinals and other clergymen enjoy large fees, housing, food and other comforts for their service. Moreover, the College of Cardinals in Rome is described as 'the best School to learn the Art of Caballing', where 'each Member, besides the Gratification of his own Passions, has nothing at Heart but the Interest of this Party' (1729, pp. 54-55). When priests and nuns provide emotional help and comfort to the poor and the rich, they also act motived by self-interest for they want to ensure a place in heaven and veneration on earth. No 'seraphic love' exist among nuns and friars living in convents and monasteries because 'none of them sacrifice their darling Lusts', they breach the vow of celibacy by having children, which they then abort or hide after being born. Mendicant orders 'differ in nothing but their Habits from other sturdy Beggars, who deceive people with a pitiful voice' to get the money they will later spend indulging in their own 'Appetites, and enjoy one another' (1732a, pp. 153-154).

Similar conclusions extend to members of the Royal Courts, who despite being named and employed to serve the public interest, they 'rob the Publick' instead, and are dominated by 'excess of Vanity and hurtful Ambition unknown among the poor'. Furthermore, 'Envy, Detraction and the Spirit of Revenge, are more ranging and mischievous in Courts that they are in Cottages' (1729, p. 60). Government 'Offices of the greatest Trust are bought and sold', ministers affect the public interest by engaging in bribery and corruption in order to advance their own self-interest or that of their own party (1732a, p. 115). The King sends his subjects to death and impoverishes his own country by 'obstinately maintaining A War that has almost utterly destroy'd his Kingdom', or because of excessive spending caused by his love for 'Pomp and Luxury' (1732a, p. 166). Soldiers do not risk their lives for others, they act motivated by their own self-interest, trying to avoid public shame if they hide or run away and, at the same time, they also seek personal glory and immortality (1732a, pp. 63-65, 275; 1729, pp. 304-305).

Mothers love their children, however they love themselves and their own preferences even more. The same woman who can neglect, give away or even kill 'her Bastard in the most execrable manner' because of public shame or burden, 'may take care of, cherish and feel all the tenderness for her Infant' if it is born in proper marriage. By giving excessive care and protection to their offspring, mothers care more about their own preferences even at the cost of ruining their own offspring, who then become spoiled and dependent (1732a, pp. 75-76)

Mandeville extends his theory of self-interest to physicians, lawyers, tradesmen and beggars among other groups. More importantly, he extends his theory to charity. He argues that the rich and famous help the poor and needy to pride themselves on charitable behaviour, while they are also eager for flattery, honour and the public tribute. He explains that charity is given to hospitals, orphanages and universities because 'they are the best Markets to buy Immortality at with little Merit' (1732a, p. 265). Charity is a highly relevant case in moral psychology and moral philosophy because it was, and still is considered by some, as definitive evidence on the existence of true sympathetic unselfish behaviour, so any successful refutation of such evidence would have important consequences for the respective moral philosophy, and the moral psychology supporting it.

Unlike Mandeville, Hume does not consider if statesmen, mothers, friends and lovers act expecting to be flattered, adored and glorified. This is important because it would allow Hume to advance an argument against any self-interested motivation. His method instead is that of simple enumerative induction, which was criticised by Francis Bacon, who explains that 'induction proceeding by simple enumeration is a childish affair, its conclusions are unsafe, it opens itself to the threat of the contradictory instance, and generally bases its verdict on facts fewer than necessary, and among these only the ones which are readily available' (1620, p. 163).

Both in the *Treatise* and the *Enquiry*, Hume highly praised the work of Newton and Bacon, whose methods he claimed to be following. The lack of consideration to 'contradictory instances', that is, to self-interested motives is an important flaw in Hume's method, who takes the obvious as true making no further enquiry. An expectation for glory and public tribute might be the motivation for Pericles, Marcius and Publius; whereas overindulgence in sexual passions and fun might be the motivation for Henry IV, even at the expense of losing a war. Similar considerations apply to the devoted mother, who might be motivated by the veneration she gets from her child. Because Hume does not consider opposite motivations, the cases he presents provide poor support to his theory leaving it vulnerable to refutation.

Another important weakness of Hume's argument is the very small number of cases he presents of disinterested sympathetic actions in both the *Treatise* and the *Enquiry*.

He was aware of this because he finishes his defence of disinterested benevolence by claiming that 'these and a thousand of other distances are marks of general benevolence in human nature' (1772a, pp. 93-94), which is a poor justification for not providing further evidence. The cases of Pericles, Marcius, Publius, Henry IV and devoted mothers are all cases of 'particular benevolence' delivered to individuals we have a close connection with. In contrast, 'general benevolence' refers to all those individuals outside this close circle, for instance those living in other countries and any distant place. Hume gives no example of this type of general benevolence; in a footnote he only writes: 'I assume it is as real, from general experience, without any other proof' (1772a, p. 92).

Hume's inductive evidence of disinterested benevolent and humanitarian actions is clearly small, and it is subject to easy dismissal because he does not consider the existence of self-interested motivations, and how they could be contested. In contrast, the cases discussed by Mandeville are numerous and diverse, ranging from cardinals and nuns to kings, mothers and charity acts. He demonstrates how relieve from remorse and self-preservation are among the self-interested motives for charity (1732a, pp.56, 258), and he also explains suicide through self-interest, extending the application of his theory to behaviour in other societies from countries such as Spain and Holland (1729, pp. 135-137; 1732a, pp. 185-191, 194-196, 209-210). Besides the two volumes of *The Fable*, there is also *An Enquiry into the Origin of Honour and the Usefulness of Christianity in War* as well as several other essays and books, where Mandeville refined his psychological theory and enlarged the number of cases supporting it. The amount of evidence he provides largely exceeds the evidence supplied by Hume in the *Treatise* and the *Enquiry*. In consequence, Hume's psychological theory is poorly supported and it therefore is hardly convincing, while Mandeville's theory is better supported and it therefore is more compelling.

5. EXPERIMENTUM CRUCIS

If inductive support is considered insufficient to decide the controversy between Hume and Mandeville, it could perhaps be settled by presenting a successful *limiting case* in the critical region of the domain. The *experimentum crucis* could do this. Hume explains that 'it is easy to attain what natural philosophers, after Lord Bacon, have affected to call the *experimentum crucis*, or that experiment, which points out the right way in any doubt or ambiguity' (1772a, p. 37). The experiment under consideration is a case of *benevolence to enemies*. Because of its exceptional features within the domain of benevolent actions, it becomes a limiting case, even though it is not actually an experiment but rather a case of 'cautious observation' and 'experience' from records in history.²

² Hume was aware of the impossibility of performing experiments in psychology the 'new science of man' as they were performed at the time in physics. In the introduction to the *Treatise* (p. 6), he explains that 'we must therefore glean up our experiments in this science from a cautious observation of human life,

Hume describes how Demosthenes, a prominent Greek politician of the fourth century B.C., helped his long-standing enemy Aeschines, who was leaving the city after being sent out to political exile. Demosthenes 'secretly followed, offering him money for his support during the exile, and soothing him with topics of consolation in his misfortunes: "Alas!" cries the banished statesman, "with what regret must I leave my friends in this city, where even my enemies are so generous!" (1772a, p. 36). The case is presented as proving the existence of true generous sympathetic sentiments causing benevolent acts, which overpower selfish sentiments of hatred and revenge. Hume concludes that 'compelled by these instances, we must renounce the theory, which accounts for every moral sentiment by the principle of self-love (1772a, p. 37). According to him universal self-interest has thus been refuted and, because benevolence to enemies is a limiting case, the likelihood of finding disinterested benevolence in the middle regions increases.

Compared to the Mandevillian theory, Hume's conclusions seem naïve and deceptive, or at least incomplete. Again, this is because he does not consider testing his own explanation against the existence of self-interested motivations by asking how much admiration, public tribute, reputation and power or personal relief from remorse Demosthenes would get by giving money to his enemy. By showing how the rival explanation based on a self-interested passion could be dismissed, an explanation based on a humanitarian act motivated by true sympathy could raise the degree of belief in a true concern for relieving Aeschines's emotional pain and economic hardship. This omission undermines the confirmation value of the evidence Hume is presenting.

Hume should have considered at least as equally likely a self-interested motivation, that apparent benevolence to enemies could be a calculated act of self-promotion. Indeed, because his theory holds that both self-interest and sympathy cause moral behaviour regardless of the external aspect of it, both of them should in principle be considered as equally likely. Then, a test should be performed or further evidence provided for choosing one cause over the other, which could then become an *experimentum crucis*. Methodologically and epistemologically, a theory with two or more causes is more challenging because the number of tests and the need for evidence as well as the overall uncertainty increases proportionally to the size of the causal set. These are the consequences of unnecessarily multiplying the number of unobservable causes—in this case self-interest and disinterested benevolence—which is a violation of the first rule from Newton discussed above. A further and potentially more damaging problem arises from Hume's decision to stop at the most obvious explanations. This problem is discussed in the next section.

and take them as they appear in the common course of the world, by men's behaviour in company, in affairs, and in their pleasures.'

6. SIMPLICITY

Hume argues that a theory which holds both self-interest and disinterested benevolence is simpler than a theory based only on self-interest. His argument consists of two parts, the first one proceeds by holding folk psychology as the theory with simpler explanations; the second part presents an argument from the 'analogy of nature' introduced by Newton in the *Principia*.

6.1. FOLK PSYCHOLOGY

Hume actually criticises simplicity as a criterion by expressing doubts on the prospects for accomplishing in moral psychology the 'perfect simplicity' observed in physics. In spite of these reservations, he still insists that a theory with two fundamental motives is simpler or, more precisely, imperfectly simpler (1772a, p. 92). The 'selfish theory', he claims, is more complex because it uses 'very intricate and refined reflections', where 'metaphysical regards to a self-interest' are 'twisted and moulded, by a particular turn of the imagination' of the scientist, so it can explain a 'variety of appearances' (1772a, pp. 91, 93). Hume accepts that people may deceive themselves with respect to the 'predominant motive or intention', which is 'indeed, frequently concealed from ourselves, when it is mingled and confounded with other motives, which the mind, from vanity or selfconceit, is desirous of supposing more prevalent' (1772a, p. 93). However, he thinks that theoreticians such as Mandeville have gone too far by inferring self-interested motivations. All this makes the selfish theory more complex in the theoretical or 'imagined' descriptions it provides of the inner workings of self-interest. Because of such descriptive complexity, Hume argues that the theory is 'fallacious' (1772a, p. 93), that is, false. By contrast, folk psychology-which he calls 'common life' reflections or reasonings-offers simpler explanations (1772a, p. 45; 1772b, p. 121; 1739-40, p. 307; see also A. Baier, 1991, pp. 1-27, and D. Livingston, 1984). Because of this simplicity folk psychology should be considered as the true psychology of moral behaviour:

Many an hypothesis in nature, contrary to first appearances, has been found, on more accurate scrutiny, solid and satisfactory [...] that there is a general presumption for its arising from the causes, which are the least obvious and familiar. But the presumption always lies on the other side, in all enquiries concerning the origin of our passions, and of the internal operations of the human mind. The simplest and most obvious cause, which can there be assigned for any phenomenon, is probably the true one (1772a, pp. 92-93).

Hume recognises that physics has succeeded in going beyond first appearances. However, he believes that going beyond the most obvious causes is a methodological mistake in psychology, mainly because of the 'abstruseness' of the alleged motive and its functioning. He illustrates this by explaining how such 'imagined' functioning is false in the case of a rich patron who is grieving at the death of a poor man, who was also his friend: 'how can we suppose, that his passionate tenderness arises from some metaphysical regards to a self-interest, which has no foundation in reality? We may well imagine, that minute wheels and springs, like those of a watch, give motion to a loaded wagon, as account for the origin of passion from such abstruse reflections' (1772a, p. 93). Mandeville uses the analogy with the spring-watch in the inference to unobservables and, in the analogy he makes between anatomy and psychology, he insists on paying attention not to the obvious parts such as bones, muscles and nerves but to the minute parts, that is, the 'small trifling Films and little Pipes that are either over-look'd, or else seem inconsiderable to Vulgar Eyes' (1732a, p. 3).

In contrast, the 'common life' psychology pays attention to obvious causes when it explains that because the patron is rich, it is unlikely or false that he grieves the death of a poor friend because of self-interest. The same folk psychology also explains that if the rich patron dies, the poor man falsely 'may flatter himself, that all his grief arises from generous sentiments, without any mixture of narrow or interested considerations' (1772a, p. 93). In this way, the epistemic standards of 'common life' psychology establish that the 'simplest and most obvious cause' is the *vera causa*, the true cause.

Again, following Mandeville's method, the alternative hypothesis with nonobvious concealed motivations explaining the same behaviour must also be tested with the information available. For instance, it should be considered if the same false or selfdeceptive flattery Hume places on the poor man grieving a rich friend and patron should also be considered in the case of the rich man, who may flatter himself for grieving the death of a man who is actually poor, dull and ignorant.

Hume is right in suggesting that by taking a step into a deeper explanatory level the risk of failing increases. Nonetheless, physics had proved the success of taking this methodological step with the many scientific advances it made. Only by disregarding this success as Hume does, his own argument can gather some support. Why psychology should be different from physics? He would have to answer this question in order to gain more support for the division he makes by placing early modern psychology into a separate category. The philosophical debate on such a divide between social and natural sciences remains open, and the current advances made by both behaviouristic and cognitive psychology have not yet solved the problem.

With Mandeville, Hume shares a commitment to produce a metaphysics of human nature, that is, a psychology postulating unobservable entities and processes. Because of this commitment, they both share the same epistemological and methodological challenges and risks. However, the argument Hume puts forward rejecting on the one hand the metaphysical descriptions of the selfish theory, and accepting the metaphysics of folk psychology on the other is weak and unpersuasive. Concealed self-interested motives are a main challenge to his theory, they are hardly considered and the few occasions when they actually are, they are quickly and unconvincingly dismissed. Those concealed motives were the main contribution from Bernard Mandeville, and others like Thomas Hobbes (1642; 1651) and François de La Rochefoucauld (1678), to the explanation of moral and political behaviour.

6.2. THE ANALOGY OF NATURE

Hume argues that 'If we consider rightly the matter, we shall find, that the hypothesis, which allows of a disinterested benevolence, distinct from self-love, has really more *simplicity* in it, and is more conformable to the analogy of nature, than that which pretends to resolve all friendship and humanity into this latter principle.' (1772a, p.94) He uses the analogy without explaining what it is or how it works. The analogy was introduced by Newton in the *Principia*; it had a significant impact among scientists from the nineteenth such as Henry Cavendish, Joseph Priestley, Thomas Young and others (McCormmach, pp.39-41).

In the third rule of natural philosophy, Newton calls for the generalisation of qualities of bodies from the grounds of experimental evidence, and in conformity to what he describes as 'the analogy of nature': 'For the qualities of bodies can be known only through experiments; and therefore qualities that square with experiments universally are to be regarded as universal qualities [...] Certainly idle fancies ought not to be fabricated recklessly against the evidence of experiments, nor should we depart from the analogy of nature, since nature is always simple and ever consonant with itself. The extension of bodies is known to us only through our senses, and yet there are bodies beyond the range of these senses; but because extension is found in all sensible bodies, it is ascribed to all bodies universally' (1726, p. 795). The analogy was a suitable response to the challenges faced with the introduction of gravitation as an unobservable entity placed 'beyond the range of our senses', just like the kind of entities Hume was concerned with building his own psychological theory.

The aim with the analogy was to provide an alternative type of inference when induction—described in Newton's fourth rule (1726, p.796)—is not feasible because no empirical evidence is available for placing together observable and unobservable entities as being part of one and the same kind. In contrast, an analogy establishes surprising similarity relationships across seemingly unrelated kinds based on some observed or assumed similarities. Very distinctively, for Newton this meant crossing from observable kinds to unobservable ones by inferring qualities known trough to our senses such as extension or impenetrability, to entities beyond the range of these senses. He made a number of surprising physical and mathematical analogies in *Principia* (1726, pp.767, 821) and *Opticks* (1730, pp. 154, 245, 278, 301). Note that similarity itself is an example of the parsimonious character of nature stated in his first rule of natural philosophy: 'For nature is simple and does not indulge in the luxury of superfluous causes' (1726, p. 794). Therefore, in the domain of unobservables we should not expect an unnecessary

proliferation of new qualities or entities, but the preservation of the same or similar ones functioning almost as adaptations.

Hume sets his own analogy of nature against primary 'bodily appetites', whose existence 'precedes all sensual enjoyment' as well as any other secondary appetite or inclination seeking the same enjoyment. Hunger and thirst are each examples of these bodily appetites, which have the acts of drinking and eating as 'their ends'. From 'the gratification of these primary appetites arises a pleasure, which may become the object of another species of desire or inclination, that is secondary and interested' (1772, p. 94). Hume does not quote any secondary interested appetite, so gluttony can be quoted as a secondary inclination led by an interest in getting the sensual enjoyment experienced by eating and drinking. Pre-existence of bodily appetites to any secondary inclination and any enjoyment derived from them is crucial for Hume's argument, for it can prove the primary character and disinterested pursuit of their objects without any expectation on the sensual enjoyment they can produce.

By analogy with bodily appetites, the existence of 'mental passions' such as selflove, ambition and anger 'by which we are impelled immediately to seek particular objects such as fame, or power, or vengeance', should also precede any enjoyment or happiness obtained from them as well as any secondary passion. Hunger and self-love are not of the same kind but they are similar enough to draw an analogy between them. Both are unobservable parts of human nature, and both carry a function with specific observable ends such as eating and fame. 'Nature must, by the internal frame and constitution of the mind give an original propensity to fame', so it can be pursued 'from the motives of self-love, and a desire of happiness'. Such happiness can later be pursued by 'other secondary passions, which afterwards arise' (1772a, p. 94). Again, Hume does not quote any secondary passion, so narcissism can be quoted here as a secondary passion led by an interest in experiencing the happiness derived from popularity and public approval. Tyranny and cruelty can be quoted as secondary passions led by an interest in experiencing the happiness derived from power and vengeance.

By extension from self-love, ambition and anger; the existence of 'sentiments' such as friendship, compassion, humanity and benevolence should also precede any enjoyment derived from them, and any possible secondary instances bringing self-interest in as a motive. Because of disinterested benevolence and friendship 'we may feel a desire of another's happiness or good, which, by means of that affection, becomes our own good, and is afterwards pursued, from the combined motives of benevolence and self-enjoyment' (1772a, p. 94). The argument from the analogy of nature ends here, Hume does not provide any further explanation, or any further example besides those discussed earlier in this article. He does not mention either secondary and interested instances intervening afterwards, 'prodigality' can be one of them when assets can be given to the prosperous person with an interest in experiencing self-enjoyment. From the argument, it should be concluded that *sentiments* such as disinterested friendship and disinterested

benevolence and compassion; and *passions* such as self-love, ambition and anger are all primal elements of the mind just like hunger and thirst are primal elements of the body.

The analogy does its job establishing a similarity relationship across two different kinds, namely physical and mental elements of the human constitution, by inferring the existence of unobservable entities from observable aspects. That is to say, the existence of disinterested benevolence is inferred from the existence of self-love, ambition, anger, thirst and hunger supported on the functional relationship they hold with observable behaviour. By limiting the scope of the analogy to primary appetites, passions and sentiments, Hume is trying to protect his own argument on disinterested benevolence against easy refutation. This is because secondary appetites and passions turned disinterested actions into interested ones having self-interest as a motive. A central challenge to Hume's argument comes from Mandeville's argument on pride.

Hume recognises that pride 'the *sentiment* of conscious worth' is 'the most common of all others'; as such it is the source of 'vanity', 'courage and capacity, industry and ingenuity' (1772a, p. 103, 104). Furthermore, he also recognises that '*sentiments* are every day experienced of blame and praise' (1772a, p. 109) that shape moral behaviour. This is important because acts of benevolence and humanity become interested when they are motivated by pride, the most common of all sentiments. Hume presents the argument from the analogy of nature as a corollary in an appendix to the *Enquiry* without adding any further example, so in order to test the analogy against Mandeville's theory one must search for cases where individuals are less likely to act motivated by an interest in experiencing secondary passions. Such cases could be found during first experiences in childhood.

Both Hume and Mandeville contend that children are comparatively more compassionate and sympathetic. Hume explains how during childhood pity arises from sympathy: 'children are most subject to pity, as being more guided by that faculty [...] which makes them pity extremely those, whom they find in any grief or affliction' (1739-40, p. 239). Mandeville holds almost the explanation: Pity or Compassion' is raised in us, when the Sufferings and Misery of other Creatures make so forcible an Impression upon us, as to make us uneasy (1732a, p. 254). But he adds that 'Pity, tho' it is the most gentle and the least mischievous of all our Passions, is yet as much a Frailty of our Nature [...] it is an Impulse of Nature, that consults neither the publick Interest nor our Reason, it may produce Evil as well as Good' (1732a, p. 56). Categorised as an impulse of nature, pity becomes analogous to thirst and hunger, which is consistent with the analogy of nature set by Hume. If children are more sympathetic than adults, and presumably act in a disinterested fashion following such an impulse of nature, it becomes crucial to explain why. The difference with behaviour at a later age can actually be explained by the appearance of secondary passions responsible for turning compassionate and benevolent behaviour into interested acts.

Indeed, Mandeville explains how pride is stimulated already in children as young as toddlers by praising them when they succeed acting in a specific way: When an aukward Girl, before she can either Speak or Go, begins after many Intreaties to make the first rude Essays of Curt'sying, the Nurse falls in an ecstacy of Praise; *There's a delicate Curt'sy! O fine Miss! There's a pretty Lady!* [...] The same is echo'd over by the Maids, whilst Mama almost hugs the Child to pieces [...] These extravagant Praises would by any one, above the Capacity of an Infant, be call'd fulsome Flatteries [...] by the help of such gross Encomiums, young Misses will be brought to make pretty Curt'sies, and behave themselves womanly much sooner' (1732a, p. 53). It is 'the same with Boys, whom they'll strive to persuade, that all fine Gentlemen do as they are bid [...] as soon as the wild Brat with his untaught Fist begins to fumble for his Hat, the Mother, to make him pull it off, tells him before he is two Years old, that he is a Man; and if he repeats that Action when she desires him, he's presently a Captain, a Lord Mayor, a King, or something higher if she can think of it' (1732a, p. 54). Besides manners, Mandeville also explains how modesty and school learning in young girls and boys are also built upon praise and shame (1732a, pp. 69, 137).

These examples and explanations resemble those currently made in developmental and child psychology. Although, Hume did not use compassion in children also as an example, there is no reason why it should be considered as exempted from the influence of praise and shame as the means for shaping moral behaviour at an early age. If the ability to sympathise with the pain and pleasure others experience is natural, then hypothetically a number of disinterested acts of compassion should be expected from birth and across early childhood, performed as an impulse of nature where no praise is available. Once praise is used encouraging compassionate acts, disinterested action erodes and the analogy of nature becomes weaker, until it loses any support when all compassionate acts become interested. Therefore, the most charitable conclusion should hold that the analogy of nature from Hume could get some hypothetical support from those possible few cases from early infancy, where disinterested acts of compassion and sympathy are likely to occur. Such a hypothesis would be subject to providing the relevant evidence showing how disinterested sympathy as an impulse of nature operates at that age. Moreover, an important related task remains be tackled, namely the categorisation of behaviour originated from a natural impulse as moral behaviour.

If behaviour in early infancy originated as an impulse of nature is discarded as moral, then self-interest alone can explain the same set of acts explained by both selfinterest and sympathy. Self-interest alone can actually account for the same social benefits attributed to sympathetic motives. Mandeville extensively demonstrates the power self-interest has in producing large transfers of wealth, and other forms of aid from some members of society to others by relying only on interested benevolence and interested compassion. Acting from self-interest, the rich miser, the industrious beggar, the rich prodigal as well as the devoted mother make large contributions to the welfare of others. Hence, a theory made only of self-interest seems to be more conformable to the analogy of nature for no idle fancies are needed, preventing nature from being complex and dissonant with itself.

7. CONCLUSIONS

In sum, under the methodology of the *vera causa* and the three criteria for theory choice, namely *vera causa*, inductive support, *experimentum crucis* and simplicity, the psychological theory from Hume achieves a lower score than the psychological theory from Mandeville. Consequently, there are better grounds for believing in a psychology of universal self-interest, than in a psychology combining both self-interest and sympathy.

Compared to Hume, Mandeville was epistemically more cautions, more rigorous and was more conscious of the uncertainty involved in making inferences to unobservable entities, and processes in the mind. For tackling the problem of rival explanations, Mandeville's own method has two important steps. The first one consists of a test and a deductive inference, that is, any claim on disinterested benevolence as the motivation for action must be tested against the rival hypothesis, namely self-interested motives. This test takes the form of a refutation. If the rival hypothesis becomes refuted, then via a disjunctive syllogism the alternative one significantly increases its chances of being true. The second step supplements the first one, first by adding a detailed, penetrating and sharp description of how self-interested motives may operate in the particular case under scrutiny, and second by adding numerous cases where selfinterested motivations are confirmed via a simple induction, leading to a generalisation from other similar cases. In contrast, Hume relies on enumerative induction only, and the number of cases he presents is rather small. Moreover, the folk psychology he relies on had already been discredited by Thomas Hobbes in Britain, and by François de La Rochefoucauld in France.

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