

Is it good to cooperate? | Oliver Scott Curry | [oliver.curry@anthro.ox.ac.uk](mailto:oliver.curry@anthro.ox.ac.uk) | May 2016**Table S1: An overview of previous empirical cross-cultural (N>2) research on morality**

Reference	Question	Method / DV	Sample	Answer
<i>The Origin and Development of the Moral Ideas</i> (Westermarck, 1906)	“Why do the moral ideas in general differ so greatly? And, on the other hand, why is there in many cases such a wide agreement?”	“the survey of an unusually rich and varied field of research psychological, ethnographical, historical, juridical, theological”	“mankind at large”	Evolved moral emotions and similarities of human nature make prohibition of homicide & theft, and approval of charity, generosity, mutual aid & honesty, universal. Differences arise due to “external circumstances”, extended circles, reflection on motives & consequences, and supernatural beliefs.
<i>Traits Inculcated in Childhood: Cross-Cultural Codes 5</i> (Barry III, Josephson, Lauer, & Marshall, 1976)	To what are traits (including fortitude, heroism, excellence, industry, obedience, generosity, trust and honesty) inculcated in children?	Analysis of the Standard Cross Cultural Sample.	182 societies.	‘Somewhat’ to ‘moderately strongly’ in the majority of societies, with some sex differences.
<i>Comparative Deviance: Perception and law in six cultures</i> (Newman, 1976)	Do cultures differ in their disapproval of specific crimes?	Anti-social offences rated for degree of seriousness / punishment.	Samples from six countries (India, Indonesia, Iran, Italy, United States, & Yugoslavia)	A “general consensus across all countries as to the extent that all acts should be tolerated”, “the amount of official punishment appropriate”, and relative rankings.
<i>Political Decision Making and Conflict: Additional Cross-Cultural Codes and Scales</i> (Ross, 1983)	What is the level of loyalty towards local community (and wider society)?	Analysis of the Standard Cross Cultural Sample.	83 (84) societies	Moderate’ to ‘especially high’ in 77/83 (and 60/84) societies.

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<i>A Review of Cross-Cultural Studies on Moral Judgment Development Using the Defining Issues Test (Moon, 1986)</i>	Do cultures differ by Kohlberg's 'moral stages'?	Review of cross-cultural studies using Defining Issues Test	6 comparisons of Western versus non-Western cultures; Ns≈28	~10% difference in P-scores.
<i>An evolutionary analysis of rules regulating human inbreeding and marriage (Thornhill, 1991)</i>	What is the cross-cultural prevalence of incest rules, and why do they vary so much?	Coding prohibitions against incest, inbreeding, intermarriage from HRAF & SCCS ethnographies.	129 societies	Incest explicitly prohibited in 33/129 (26%) societies. Inbreeding & intermarriage prohibitions reflect variation in patrilocality & paternity confidence, lineage solidarity & inheritance, stratification & concentration of wealth.
<i>"Blood Feuds": Cross-Cultural Variations in Kin Group Vengeance (Ericksen &amp; Horton, 1992)</i>	Is kin group vengeance considered legitimate?	Analysis of the Standard Cross Cultural Sample.	168 societies.	Legitimate in 90 (and a moral imperative in 38) societies.
<i>Universals in the content and structure of values: Theory and empirical tests in 20 countries (Schwartz, 1992)</i>	To what extent is the content, structure and priority of values cross-culturally universal?	Ratings (-1-7) of 56 values (11 types) subject to Smallest Space Analysis.	40 samples (Ns≈200) (of students and teachers) in 20 countries.	Conformity, Tradition, Benevolence and Universalism "close to universals". 'Value priorities': "tradition, conformity, and benevolence...more important in communal societies...self-direction, stimulation, and universalism...more important in contractual societies."

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Reference	Question	Method / DV	Sample	Answer
<i>CONAN: An Electronic Code-Text Data-Base for Cross-Cultural Studies</i> (Lang, 1998)	What is the level of loyalty towards ethnic group?	Analysis of the Standard Cross Cultural Sample.	84 societies.	'Middle' to 'high' in 45/86 societies.
<i>'Economic Man' in Cross-cultural Perspective: Behavioral experiments in 15 small-scale societies</i> (Henrich et al., 2005)	Is fairness (and trust) a human universal, and / or influenced by social environment?	Ultimatum (and public goods) games.	15 (6) small scale societies on four continents.	Fairness (and trust) exhibited in all societies; variation related to degree of market integration, importance of cooperation, and patterns of everyday life.
<i>Shared Virtue: The Convergence of Valued Human Strengths Across Culture and History</i> (Dahlsgaard, Peterson, & Seligman, 2005)	Are there any ubiquitous / widely valued virtues?	Selective literature review	Ancient texts from eight traditions (Confucianism, Taoism, Buddhism, Hinduism, Athenian philosophy, Christianity, Judaism, Islam)	Six recurrent virtues: courage, justice, humanity, temperance, wisdom, and transcendence.
<i>Families Across Cultures: A 30-Nation Psychological Study</i> (Georgas, Berry, Vijver, Kagitçibasi, & Poortinga, 2006)	Do people feel a moral obligation to their kin?	Family Values Scale (self-report questionnaire).	30 countries.	Yes, with some variation across countries ( $\eta^2=0.29$ )
<i>Standard Cross-Cultural Sample</i> (Murdock & White, 2006)	What are the norms regarding taking revenge?	Analysis of the Standard Cross Cultural Sample.	80 societies.	Prescribed in 48/80 societies.
<i>Character strengths in fifty-four nations and the fifty US states</i> (Park, Peterson, & Seligman, 2006)	What virtues do people ascribe to themselves?	Values in Action Inventory of Strengths (self-report questionnaire).	54 nations.	"People everywhere see themselves as possessing the same interpersonal strengths [and] lacking the same strengths of temperance."

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<i>A Dissociation Between Moral Judgments and Justifications (Hauser, Cushman, Young, Kang-Xing Jin, &amp; Mikhail, 2007)</i>	Do different populations observe the principle of double effect?	Internet-based trolley problems contrasting necessary / incidental harm.	Samples from Australia, Canada, US and UK	No significance difference between populations.
<i>Purposive Social Selection and the Evolution of Human Altruism (Boehm, 2008)</i>	Which behaviours are (dis)approved of?	Kin altruism, cheating, stealing and other social preferences and sanctions.	10 societies (including 4 Inuit societies).	Kin altruism positive in 10 societies; cheating negative in 5 societies, stealing negative in 10.
<i>Mapping the Moral Domain (Graham et al., 2011)</i>	Do cultures differ on five moral foundations?	Moral Foundations Questionnaire (Harm/Care, Fairness/Reciprocity, Ingroup/Loyalty, Authority/Respect, and Purity/Sanctity)	Eastern cultures (South Asia, East Asia, and Southeast Asia; n = 2,258) & Western cultures (United States, United Kingdom, Canada, and Western Europe; n = 104,893).	Minuscule differences between East and West. Eastern participants scored higher on all measures; Ingroup (d=0.08), and Purity (d = 0.06) and Harm, Fairness, and Authority (ds < 0.04).
<i>A Cross-Cultural Study of Noblesse Oblige in Economic Decision-Making (Fiddick, Cummins, Janicki, Lee, &amp; Erlich, 2013)</i>	Is noblesse oblige a cross-cultural norm?	Self-report responses to cheating, in vignettes, as boss or employee.	Samples (Ns≈54) from: Australia, Canada, Germany, Japan, Singapore, UK, USA.	'Bosses' "more willing to continue the arrangement . . . to feel they had been treated fairly [and to feel] less animosity toward their cheating partners, and believed they got the better deal". No difference between countries
<i>What predicts religiosity? A multinational analysis of reproductive and cooperative morals (Weeden &amp; Kurzban, 2013)</i>	Are there differences between the moral values of different countries / regions? (A re-analysis of World Values Survey data.)	Questionnaire items rating the justifiability of cooperative (eg lying) and reproductive (eg homosexuality) morals.	~90 countries / ~10 regions	Little variation between countries & regions on cooperative morals (R <sup>2</sup> s=0.09, 0.02); more on reproductive morals (0.22, 0.14).

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## Bibliography

- Barry III, H., Josephson, L., Lauer, E., & Marshall, C. (1976). Traits Inculcated in Childhood: Cross-Cultural Codes 5. *Ethnology*, 15(1), 83-106. doi: 10.2307/3773082
- Boehm, C. (2008). Purposive Social Selection and the Evolution of Human Altruism. *Cross-Cultural Research*, 42, 319-352. doi: 10.1177/1069397108320422
- Dahlsgaard, K., Peterson, C., & Seligman, M. E. P. (2005). Shared Virtue: The Convergence of Valued Human Strengths Across Culture and History. *Review of General Psychology*, 9(3), 203-213. doi: 10.1037/1089-2680.9.3.203
- Ericksen, K. P., & Horton, H. (1992). "Blood Feuds": Cross-Cultural Variations in Kin Group Vengeance. *Cross-Cultural Research*, 26(1-4), 57-85. doi: 10.1177/106939719202600103
- Fiddick, L., Cummins, D., Janicki, M., Lee, S., & Erlich, N. (2013). A Cross-Cultural Study of Noblesse Oblige in Economic Decision-Making. *Human Nature*, 24(3), 318-335. doi: 10.1007/s12110-013-9169-9
- Georgas, J., Berry, J. W., Vijver, F. J. R. v. d., Kagitçibasi, Ç., & Poortinga, Y. H. (Eds.). (2006). *Families Across Cultures: A 30-Nation Psychological Study*. Cambridge University Press.
- Graham, J., Nosek, B. A., Haidt, J., Iyer, R., Koleva, S., & Ditto, P. H. (2011). Mapping the Moral Domain. *Journal of Personality and Social Psychology*, 101(2), 366-385. doi: Doi 10.1037/A0021847
- Hauser, M. D., Cushman, F., Young, L., Kang-Xing Jin, R., & Mikhail, J. (2007). A Dissociation Between Moral Judgments and Justifications. *Mind & Language*, 22(1), 1-21. doi: 10.1111/j.1468-0017.2006.00297.x
- Henrich, J., Boyd, R., Bowles, S., Camerer, C., Fehr, E., Gintis, H., . . . Tracer, D. (2005). 'Economic Man' in Cross-cultural Perspective: Behavioral experiments in 15 small-scale societies. *Behavioral and Brain Sciences*, 28(6), 795–855.
- Lang, H. (1998). CONAN: An Electronic Code-Text Data-Base for Cross-Cultural Studies. *World Cultures: Journal of Comparative and Cross-Cultural Research*, 9(2), 13-56.
- Moon, Y.-L. (1986). A Review of Cross-Cultural Studies on Moral Judgment Development Using the Defining Issues Test. *Cross-Cultural Research*, 20(1-4), 147-177. doi: 10.1177/106939718602000107
- Murdock, G. P., & White, D. R. (2006). *Standard Cross-Cultural Sample*.
- Newman, G. (1976). Comparative Deviance: Perception and law in six cultures.
- Park, N., Peterson, C., & Seligman, M. E. P. (2006). Character strengths in fifty-four nations and the fifty US states. *The Journal of Positive Psychology*, 1(3), 118-129. doi: 10.1080/17439760600619567
- Ross, M. H. (1983). Political Decision Making and Conflict: Additional Cross-Cultural Codes and Scales. *Ethnology*, 22(2), 169-192. doi: 10.2307/3773578
- Schwartz, S. H. (1992). Universals in the content and structure of values: Theory and empirical tests in 20 countries. In M. Zanna (Ed.), *Advances in experimental social psychology* (Vol. 25, pp. 1-65). New York: Academic Press.
- Thornhill, N. W. (1991). An evolutionary analysis of rules regulating human inbreeding and marriage. *Behavioral and Brain Sciences*, 14(02), 247-261. doi: doi:10.1017/S0140525X00066449
- Weeden, J., & Kurzban, R. (2013). What predicts religiosity? A multinational analysis of reproductive and cooperative morals. *Evolution and Human Behavior*, 34(6), 440-445.
- Westermarck, E. A. (1906). *The Origin and Development of the Moral Ideas*. London: Macmillan.

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<b>DOMAIN</b>	<b>SUBJECT CODE</b>	<b>EHRAF SEARCH SYNTAX</b>
Kinship	183' Norms 476' Mutual Aid 602' Kin Relationships 610' Kin Groups	( Text = ( xiao OR filial OR piety OR kinship OR obligations OR kin OR family OR nepotism OR duty OR loyalty ) ) ) OR ( ( Subjects = ( Any Subject ) ) AND ( Text = ( ethic* OR moral* OR unethical OR immoral OR duty OR fair OR loyal OR oblig* OR permi* OR praise OR scrup* OR virtu* OR blame OR vice* ) ) ) )
Mutualism	183' Norms 476' Mutual Aid 621' Community Structure	( Text = ( ethic* OR moral* OR unethical* OR immoral OR duty OR fair OR loyal* OR oblig* OR permi* OR praise* OR scrup* OR virtu* OR blame* OR vice ) ) ) AND ( ( Subjects = ( Any Subject ) ) AND ( Text = ( loyalty OR friendship OR solidarity OR betray* OR "defend group" OR conform* ) ) ) )
Exchange	183' Norms 431' Gift Giving 476' Mutual Aid 621' Community Structure	( Text = ( ethic* OR moral* OR unethical* OR immoral OR duty OR fair OR loyal* OR oblig* OR permi* OR praise* OR scrup* OR virtu* OR blame* OR vice ) ) ) AND ( ( Subjects = ( Any Subject ) ) AND ( Text = ( reciproc* OR "return favor" OR "return favour" OR "pay debts" OR aveng* OR revenge OR venge* OR "keep promises" OR "in return" OR owe OR retribution OR trust* OR untrust* OR "make amends" OR "express gratitude" OR repent* OR cheat ) ) ) )
Hawk	152' Drives and Emotions 183' Norms 476' Mutual Aid 727' Aftermath of Combat	( Text = ( ethic* OR moral* OR unethical* OR immoral OR duty OR fair OR loyal* OR oblig* OR permi* OR praise* OR scrup* OR virtu* OR blame* OR vice ) ) ) AND ( ( Subjects = ( Any Subject ) ) AND ( Text = ( brave* OR courage* OR hero* OR coward* OR fortitude OR shame OR digni* OR gallant* OR guabaz OR honour* OR honor* OR valour OR pawr OR "male virtue" ) ) ) )
Dove	183' Norms 476' Mutual Aid 571' Social Relationships and Groups	( Text = ( ethic* OR moral* OR unethical* OR immoral OR duty OR fair OR loyal* OR oblig* OR permi* OR praise* OR scrup* OR virtu* OR blame* OR vice ) ) ) AND ( ( Subjects = ( Any Subject ) ) AND ( Text = ( defer* OR respect OR obe* OR charit* OR chival* OR fealty OR gallant* OR noblesse OR oblige ) ) ) )
Division	183' Norms 261' Gratification and Control of Hunger 476' Mutual Aid 571' Social Relationships and Groups	( Text = ( ethic* OR moral* OR unethical* OR immoral OR duty OR fair OR loyal* OR oblig* OR permi* OR praise* OR scrup* OR virtu* OR blame* OR vice ) ) ) AND ( ( Subjects = ( Any Subject ) ) AND ( Text = ( fair* OR unfair* OR "equal shares" OR "divide equally" OR compromise ) ) ) )
Possession	183' Norms 421' Property System 476' Mutual Aid 685' Property Offenses	( Text = ( ethic* OR moral* OR unethical* OR immoral OR duty OR fair OR loyal* OR oblig* OR permi* OR praise* OR scrup* OR virtu* OR blame* OR vice ) ) ) AND ( ( Subjects = ( Any Subject ) ) AND ( Text = ( propert* OR possession OR belong OR thiev* OR steal* OR thief OR own ) ) ) )