

Self-interested agents create, maintain, and modify group-functional culture

doi:10.1017/S0140525X15000242, e52

Manvir Singh, Luke Glowacki, and Richard W. Wrangham

Department of Human Evolutionary Biology, Harvard University,
Peabody Museum, Cambridge, MA 02138.

manvirsingh@fas.harvard.edu glowacki@fas.harvard.edu

wrangham@fas.harvard.edu

<http://www.manvir.org>

<http://scholar.harvard.edu/glowacki/home>

Abstract: We agree that institutions and rules are crucial for explaining human sociality, but we question the claim of there not being “alternatives to CGS [that] can easily account for the institutionalized cooperation that characterizes human societies” (target article, sect. 7). Hypothesizing that self-interested individuals coercively and collaboratively create rules, we propose that agent-based hypotheses offer viable alternatives to cultural group selection (CGS).

Richerson et al. argue that cultural systems, such as prosocial religion and institutions that maintain social order, play a vital role in enabling the cooperation of both small- and large-scale human societies. We agree. But we are unconvinced that cultural group selection (CGS) is the only hypothesis able to account for the existence of such phenomena. CGS leads to group-functional culture by selecting on cultural variation (Boyd & Richerson 2010), but such selection presupposes that group-functional equilibria exist already, suggesting that other processes, including within-group dynamics, contribute to the emergence of group-functional culture. Since researchers have long recognized that individuals with the requisite power coercively and consensually create rules, we propose a complementary “rule-making

hypothesis” for group-adaptive institutions. Understanding the contribution of such agent-based social processes is essential for evaluating the value and limits of CGS theory.

Focusing specifically on rules and institutions that control social deviance (one of Richerson et al.’s three examples of group-adaptive culture; see sect. 6.2), we describe two manifestations of this rule-making hypothesis. The first emerges when asymmetries in power or influence allow parties to create and impose rules that satisfy their own interests. Depending on whether the interests of these coercive authorities coincide with those of the group, these individuals will sometimes but not always create and maintain rules with group-level benefits. An alternative form of this hypothesis develops when power is more evenly distributed. In these cases, coordinated groups of individuals can consensually create, modify, and enforce rules that control defection.

Individuals can have key roles in producing group-functional rules if they have sufficient power or influence to institute cultural changes and enforce new rules. Schapera (1970) observed that Tswana tribal chiefs drove cultural change by introducing innovations ranging from single rules, such as the banning of beer, to infrastructural changes, like the establishment of a police system. The chiefs’ objectives in creating rules included quelling social disturbance, reducing poverty, and collectivizing otherwise divergent interests – goals with explicit group-level benefits. Functional rules can also stem from leaders dealing with novel forms of conflict. Llewellyn and Hoebel (1941), in their ethnography of the Cheyenne legal system, described how tensions arose after one man borrowed another individual’s horse without permission. The military chiefs eased the friction between the parties and then established a rule: “Now we shall make a new rule. There shall be no more borrowing of horses without asking ... [If] the taker tries to keep them, we will give him a whipping” (p. 128). Considering the role of coercive rule-makers offers an alternative explanation not only for the origin of group-functional culture, but also for its maintenance, because powerful rule-makers should continue to enforce group-functional rules as long as the rules satisfy their own perceived self-interest. Moreover, the coercive authority dynamic accounts for the ubiquity of institutions that asymmetrically benefit the powerful, spanning etiquette norms (e.g., Trobriand Islanders: Malinowski 1926) and food taboos (e.g., the Etoro: Kelly 1980; the Aranda: Spencer & Gillen 1927; and the Sanumá: Taylor 1981).

Coercive rule-makers who have the power to change rules should create group-functional culture when their own interests coincide with those of their groups. In some cases, these overlapping interests stem from coercive rule-makers preferring groups with cooperative, compliant individuals. Elders of the Kurnai of Australia demanded that young boys “listen to, and obey the old men” and “live peaceably with their friends” (Howitt 1885, p. 316), rules that improve the welfare of the elders while also creating group-level benefits. Studies of punishment in animal societies show that CGS is not necessary for the coercive enforcement of group-adaptive behavior (Singh and Boomsma 2015). Reeve (1992) found that naked mole rat queens harass lazy subordinates, while Flack et al. (2005; 2006) noted that dominant macaques police conflicts among subordinates, stabilizing their own high status while reducing within-group conflict.

To this point, we have illustrated the ability of powerful individuals to create group-adaptive rules. However, the development of group-functional culture does not require that novelty originate with coercive authorities. Parties of similarly powerful individuals can also establish and maintain rules to control each other’s behavior. Systems of rules that emerged across camps during the California Gold Rush represent a well-studied example of self-interested individuals coordinating to create and enforce novel institutions of social order. Despite the absence of organized state law, miners residing at promising digs convened and instituted majority-approved rules to protect mining rights and safety (McDowell 2004). Violations of those rules spurred injured parties to seek redress through the support of the community, who used coordi-

nated punishment to enforce rules. Ostrom's (1990) review of small-scale institutions that manage common pool resources similarly exemplifies how the coordination of self-interested agents can produce group-functional culture. Fishermen in Alanya, Turkey, for example, took 10 years to perfect an institution to control overharvesting and conflict, with a built-in means of motivating individuals to monitor and enforce violations of mutually recognized rules. Last, group consent can interact with authorities to produce group-functional culture. Among the Enga of New Guinea, leaders presented cultural innovations to their groups, though group consensus ultimately governed adoption. As Wiessner (2002) summarized, "The innovations promoted were ones that leaders felt could be played to their own advantage; the innovations that stuck were those that worked for the individual and the group" (p. 251).

Here we briefly reviewed evidence that individuals motivated by self-interest can create group-functional culture through coercion, consensus, or both. Although our discussion is largely restricted to rules controlling deviance, these arguments apply to the development of other domains of group-functional culture as well, such as institutions that reward otherwise costly behaviors (Glowacki & Wrangham 2013) and prosocial religion (Norenzayan et al. 2016). Only after recognizing complementary and alternative hypotheses for group-functional culture, as well as the criteria for testing among them, will we be able to assess Richerson et al.'s claim that CGS is uniquely important in generating the cultural systems underlying human cooperation.

References

[The letters “a” and “r” before author’s initials stand for target article and response references, respectively]

- Aaldering, H. & De Dreu, C. K. W. (2012) When doves fly high and hawks lay low: Constituent status differentials affect representative negotiation. *Group Processes and Intergroup Relations* 15:713–24. [CKWDD]
- Acedo-Carmona, C. & Gomila, A. (2013) Trust and cooperation: A new experimental approach. *Annals of the New York Academy of Sciences* 1299:77–83. [CA-C]
- Acedo-Carmona, C. & Gomila, A. (2014a) Diversidad étnica, clanes y familias en Ghana: Plataforma económica, social y cultural. In: *Periferias, Fronteras y Diálogos. Actas del XIII Congreso de Antropología de la Federación de Asociaciones de Antropología del Estado Español*, ed. N. Lundsteen, U. Martínez-Veiga & J. Palomera, pp. 2519–45. Universitat Rovira i Virgili. Available at: <http://www.fundacio.urv.cat/congres-antropologia/>. [CA-C]
- Acedo-Carmona, C. & Gomila, A. (2014b) Personal trust increases cooperation beyond general trust. *PLoS ONE* 9(8):e105559. [CA-C]
- Acedo-Carmona, C. & Gomila, A. (2015) Trust matters: A cross-cultural comparison of Northern Ghana and Oaxaca groups. *Frontiers in Psychology* 6(661). doi: 10.3389/fpsyg.2015.00661. [CA-C]
- Acemoglu, D., Johnson, S. & Robinson, J. A. (2001) The colonial origins of comparative development: An empirical investigation. *American Economic Review* 91(5):1369–401. doi: 10.1257/aer.91.5.1369. [PH]
- Acemoglu, D., Johnson, S. & Robinson, J. A. (2002) Reversal of fortune: Geography and institutions in the making of the modern world income distribution. *The Quarterly Journal of Economics* 117(4):1231–94. doi: 10.1162/003355302320935025. [PH]
- Acemoglu, D., Johnson, S. & Robinson, J. A. (2005) Institutions as a fundamental cause of long-run growth. In: *Handbook of economic growth, vol. 1, Part A*, ed. A. Philippe & N. D. Steven, pp. 385–72. Elsevier. [PH]
- Acerbi, A., Ghirlanda, S. & Enquist, M. (2012) The logic of fashion cycles. *PLoS One* 7(3):e32541. [HH]
- Akey, J. M. (2009) Constructing genomic maps of positive selection in humans: Where do we go from here? *Genome Research* 19(5):711–22. doi: 10.1101/gr.086652.108. [PH]
- Aktipis, C. A. (2004) Know when to walk away: Contingent movement and the evolution of cooperation. *Journal of Theoretical Biology* 231(2):249–60. [RMN]
- Alcock, J. (1998) *Animal behavior*, 6th edition. Sinauer. [MMK]
- Alcock, J. (2001) *The triumph of sociobiology*. Oxford University Press. [MMK]
- Alexander, R. D. (1987) *The biology of moral systems*. Aldine de Gruyter. [aPR]
- Algan, Y. & Cahuc, P. (2010) Inherited trust and growth. *The American Economic Review* 100(5):2060–92. doi: 10.2307/41038755. [aPR]
- Allison, A. C. (1964) Polymorphism and natural selection in human populations. *Cold Spring Harbor Symposia on Quantitative Biology* 29:137–49. doi: 10.1101/sqb.1964.029.01.018. [aPR]
- Allport, G. W. (1954) *The nature of prejudice*. Addison-Wesley. [CKWDD]
- Alvard, M. (2011) Genetic and cultural kinship among the Lamaleran whale hunters. *Human Nature* 22(1–2):89–107. doi: 10.1007/s12110-011-9104-x. [JH]
- Alvard, M. S. (2003) The adaptive nature of culture. *Evolutionary Anthropology* 12:136–49. [CA-C]
- Andersson, C., Törnberg, A. & Törnberg, P. (2014) An evolutionary developmental approach to cultural evolution. *Current Anthropology* 55(2):154–74. [AF]
- André, J.-B. & Morin, O. (2011) Questioning the cultural evolution of altruism. *Journal of Evolutionary Biology* 24(12):2531–42. [OM]
- Aoki, M. (2001) *Toward a comparative institutional analysis*. MIT Press. [aPR]
- Archer, J. (1997) Why do people love their pets? *Evolution and Human Behavior* 18(4):237–59. [HH]
- Armentano, D. T. (1986) *Antitrust policy: The case for repeal*. Cato Institute. [PH]
- Ashforth, B. E., Harrison, S. H. & Corley, K. G. (2008) Identification in organizations: An examination of four fundamental questions. *Journal of Management* 34(3):325–74. doi: 10.1177/0149206308316059. [aPR]
- Ashraf, Q. & Galor, O. (2013) The “Out of Africa” hypothesis, human genetic diversity, and comparative economic development. *American Economic Review* 103(1):1–46. doi: 10.1257/aer.103.1.1. [PH]
- Atran, S. (2002) *In gods we trust*. Oxford University Press. [aPR]
- Atran, S. (2010) *Talking to the enemy: Faith, brotherhood, and the (un)making of terrorists*. HarperCollins. [aPR]

- Atran, S. & Norenzayan, A. (2005) Religion's evolutionary landscape: Counterintuition, commitment, compassion, communion. *Behavioral and Brain Sciences* 27(6):713–70. doi: 10.1017/s0140525x04000172. [aPR]
- Aunger, R., ed. (2000) *Darwinizing culture: The status of memetics as a science*. Oxford University Press. [AW]
- Ayala, F. J. (2010) The difference of being human: Morality. *Proceedings of the National Academy of Sciences USA* 107(Suppl. 2):S897–901. [aPR, JSC]
- Balicki, A. (1970) *The Netsilik Eskimo*. Doubleday. [DR]
- Balliet, D., Wu, Y. & De Dreu, C. K. W. (2014) In-group favoritism and cooperation: A meta-analysis. *Psychological Bulletin* 140:1556–81. [CKWDD]
- Barclay, P. (2012) Proximate and ultimate causes of strong reciprocity and punishment. *Behavioral and Brain Sciences* 35(1):16–17. [PB]
- Barclay, P. (2013) Strategies for cooperation in biological markets, especially for humans. *Evolution and Human Behavior* 34(3):164–75. doi: 10.1016/j.evolhumbehav.2013.02.002. [JH]
- Barclay, P. & Van Vugt, M. (2015) The evolutionary psychology of human prosociality: Adaptations, mistakes, and byproducts. In: *Oxford handbook of prosocial behavior*, ed. D. Schroeder & W. Graziano, pp. 37–60. Oxford University Press. [PB]
- Barnett, W. P. & McKendrick, D. G. (2004) Why are some organizations more competitive than others? Evidence from a changing global market. *Administrative Science Quarterly* 49(4):535–71. [aPR]
- Barnett, W. P. & Pontikes, E. G. (2008) The Red Queen, success bias, and organizational inertia. *Management Science* 54(7):1237–51. doi: 10.1287/mnsc.1070.0808. [aPR]
- Barrett, H. C. (2015) *The shape of thought: How mental adaptations evolve*. Oxford University Press. [rPR]
- Batson, C. D. (2011) *Altruism in humans*. Oxford University Press. [arPR]
- Baum, W. M. (2012) Rethinking reinforcement: Allocation, induction, and contingency. *Journal of the Experimental Analysis of Behavior* 97(1):101–24. [CSi]
- Baum, W. M. (2015) Driven by consequences: The multiscale molar view of choice. *Managerial and Decision Economics* 9999: doi: 10.1002/mde.2713. [CSi]
- Baum, W. M., Paciotti, B., Richerson, P., Lubell, M. & McElreath, R. (2012) Cooperation due to cultural norms, not individual reputation. *Behavioural Processes* 91(1):90–93. doi: 10.1016/j.beproc.2012.06.001. [arPR]
- Baum, W. M., Richerson, P. J., Efferson, C. M. & Paciotti, B. M. (2004) An experimental model of cultural evolution including traditions of rule giving and rule following. *Evolution and Human Behavior* 25:305–26. [aPR]
- Baumard, N., Hyafil, A., Morris, I. & Boyer, P. (2015) Increased affluence explains the emergence of ascetic wisdoms and moralizing religions. *Current Biology* 25(1):10–15. doi: 10.1016/j.cub.2014.10.063. [JH]
- Baumgartner, T., Heinrichs, M., Vonlanthen, A., Fischbacher, U. & Fehr, E. (2008) Oxytocin shapes the neural circuitry of trust and trust adaptation in humans. *Neuron* 58(4):639–50. [JSC]
- Beebe, B. & Lachmann, F. M. (2014) *The origins of attachment*. Routledge. [JSC]
- Belin, P., Zatorre, R. J., Lafaille, P., Ahad, P. & Pike, B. (2000) Voice-selective areas in human auditory cortex. *Nature* 403:309–12. [HG]
- Bell, A. V., Richerson, P. J. & McElreath, R. (2009) Culture rather than genes provides greater scope for the evolution of large-scale human prosociality. *Proceedings of the National Academy of Sciences USA* 106(42):17671–74. doi: 10.1073/pnas.0903232106. [arPR, JH, RMR]
- Bellah, R. N. (2011) *Religion in human evolution: From the Paleolithic to the Axial Age*. Harvard University Press. [PT]
- Belyaev, D. K. (1979) Destabilizing selection as a factor in domestication. *Journal of Heredity* 70:301–308. [HG]
- Belyaev, D. K., Plyusnina, I. Z. & Trut, L. N. (1985) Domestication of the silver fox (*Vulpes fulvus* Desm): Changes in physiological boundaries of the sensitive period of primary socialization. *Applied Animal Behavior Science* 13:359–70. [JSC]
- Bernard, M., Dreber, A., Strimling, P. & Eriksson, K. (2013) The subgroup problem: When can binding voting on extractions from a common pool resource overcome the tragedy of the commons? *Journal of Economic Behavior and Organization* 91:122–30. [DA]
- Bhugra, D. & Becker, M. A. (2005) Migration, cultural bereavement and cultural identity. *World Psychiatry* 4(1):18–24. [CA-C]
- Binder, J. R., Frost, J. A., Hammeke, T. A., Cox, R. W., Rao, S. M. & Prieto, T. (1997) Human brain language areas identified by functional magnetic resonance imaging. *Journal of Neuroscience* 17:353–62. [HG]
- Bingham, P. M. (1999) Human uniqueness: A general theory. *Quarterly Review of Biology* 74(2):133–69. [HG]
- Birch, J. & Okasha, S. (2015) Kin selection and its critics. *BioScience* 65:22–32. [PB]
- Boehm, C. (1984) *Blood revenge. The anthropology of feuding in Montenegro and other tribal societies*. University Press of Kansas. [rPR]
- Boehm, C. (1997) Impact of the human egalitarian syndrome on Darwinian selection mechanics. *The American Naturalist* 150(Suppl.):S100–21. [aPR]
- Boehm, C. (2012) *Moral origins: The evolution of virtue, altruism, and shame*. Basic Books. [aPR]
- Boesch, C. (1991) Teaching among wild chimpanzees. *Animal Behaviour* 41:530–32. [JMB]
- Boldrin, M. & Levine, D. K. (2008) *Against intellectual monopoly*. Cambridge University Press. [PH]
- Bolhuis, J. J., Brown, G. R., Richardson, R. C. & Laland, K. N. (2011) Darwin in mind: New opportunities for evolutionary psychology. *PLoS Biology* 9(7): e1001109. doi: 10.1371/journal.pbio.1001109. [rPR]
- Bolton, M. K. (1993) Imitation versus innovation: Lessons to be learned from the Japanese. *Organizational Dynamics* 21(3):30–45. [aPR]
- Bornstein, G. (2003) Intergroup conflict: Individual, group, and collective interests. *Personality and social psychology review* 7(2):129–45. [CKWDD]
- Bouckaert, R., Lemey, P., Dunn, M., Greenhill, S. J., Alekseyenko, A. V., Drummond, A. J., Gray, R. D., Suchard, M. A. & Atkinson, Q. D. (2012) Mapping the origins and expansion of the Indo-European language family. *Science* 337(6097):957–60. doi: 10.1126/science.1219669. [aPR]
- Bowlby, J. (1946) Psychology and democracy. *Political Quarterly* 17:61–76. [JSC]
- Bowles, S. (2006) Group competition, reproductive leveling, and the evolution of human altruism. *Science* 314:1569–72. [aPR]
- Bowles, S. & Gintis, H. (2011) *A cooperative species: Human reciprocity and its evolution*. Princeton University Press. [aPR, CKWDD, HG]
- Boyd, R., Gintis, H., Bowles, S. & Richerson, P. J. (2003) The evolution of altruistic punishment. *Proceedings of the National Academy of Sciences USA* 100:3531–35. [aPR]
- Boyd, R. & Lorderbaum, J. P. (1987) No pure strategy is evolutionarily stable in the repeated Prisoner's Dilemma game. *Nature* 32(6117):58–59. [JH]
- Boyd, R. & Mathew, S. (2015) The evolution of language may require third-party monitoring and sanctions. *Evolution and Human Behavior* 36(6):475–79. [JH]
- Boyd, R. & Richerson, P. J. (1985) *Culture and the evolutionary process*. University of Chicago Press. [arPR, MMK]
- Boyd, R. & Richerson, P. J. (1990) Group selection among alternative evolutionarily stable strategies. *Journal of Theoretical Biology* 145(3):331–42. [OM]
- Boyd, R. & Richerson, P. J. (1992a) How microevolutionary processes give rise to history. In: *History and evolution*, ed. M. H. Nitecki & D. V. Nitecki, pp. 179–209. State University of New York Press. [rPR]
- Boyd, R. & Richerson, P. J. (1992b) Punishment allows the evolution of cooperation (or anything else) in sizable groups. *Ethology and Sociobiology* 13(3):171–95. [arPR]
- Boyd, R. & Richerson, P. J. (2002) Group beneficial norms can spread rapidly in a structured population. *Journal of Theoretical Biology* 215:287–96. [aPR]
- Boyd, R. & Richerson, P. J. (2009) Voting with your feet: Payoff biased migration and the evolution of group beneficial behavior. *Journal of Theoretical Biology* 257(2):331–39. doi: 10.1016/j.jtbi.2008.12.007. [aPR, OM]
- Boyd, R. & Richerson, P. J. (2010) Transmission coupling mechanisms: Cultural group selection. *Philosophical Transactions of the Royal Society of London, Series B: Biological Sciences* 365(1559):3787–95. doi:10.1098/rstb.2010.0046. [MS]
- Boyd, R., Richerson, P. J. & Henrich, J. (2011) Rapid cultural adaptation can facilitate the evolution of large-scale cooperation. *Behavioral Ecology and Sociobiology* 65:431–44. [aPR]
- Boyer, P. (2001) *Religion explained: The evolutionary origins of religious thought*. Basic Books. [aPR]
- Boyer, P. & Petersen, M. B. (2011) The naturalness of (many) social institutions. *Journal of Institutional Economics* 8(1):1–25. [JT]
- Bradshaw, J. (2013) *Cat sense: How the new feline science can make you a better friend to your pet*. Basic Books. [HH]
- Brandon, R. N. (1994) Theory and experiment in evolutionary biology. *Synthese* 99(1):59–73. doi: 10.2307/20117886. [rPR]
- Brewer, M. B. (1999) The psychology of prejudice: Ingroup love or outgroup hate? *Journal of Social Issues* 55:429–44. [CKWDD]
- Brewer, M. B. (2007) The importance of being we: Human nature and intergroup relations. *American Psychologist* 62(8):728–38. doi: dx.doi.org/10.1037/0003-066X.62.8.728. [arPR]
- Brooks, B. A., Hoff, K. & Pandey, P. (2014) Insult versus accident: Caste culture and the efficiency of coordination. Available at: <http://faculty.chicagobooth.edu/workshops/micro/past/pdf/brooksinsultvsaccident.pdf>. [PH]
- Brown, C. & Richerson, P. (2014) Applying evolutionary theory to human behaviour: Past differences and current debates. *Journal of Bioeconomics* 16(2):105–28. doi: 10.1007/s10818-013-9166-4. [aPR]
- Brown, S., Savage, P. E., Ko, A. M., Stoneking, M., Ko, Y. C., Loo, J. H. & Trejaut, J. A. (2014) Correlations in the population structure of music, genes and language. *Proceedings of the Royal Society B: Biological Sciences* 281(1774):e20132072. doi: 10.1098/rspb.2013.2072. [RMR]
- Burkart, J. M., Allon, O., Amici, F., Fichtel, C., Finkenwirth, C., Heschl, A., Huber, J., Isler, K., Kosonen, Z. K., Martins, E., Meulman, E. J., Richiger, R., Rueth, K., Spillmann, B., Wiesendanger, S. & van Schaik, C. P. (2014) The evolutionary origin of human hyper-cooperation. *Nature Communications* 5, Article no. 4747. (Online article, published August 27, 2014). [JMB]

- Burkart, J. M., Hrdy, S. B. & Van Schaik, C. P. (2009) Cooperative breeding and human cognitive evolution. *Evolutionary Anthropology* 18:175–86. [aPR, JMB]
- Burkart, J. M. & van Schaik, C. P. (2010) Cognitive consequences of cooperative breeding in primates. *Animal Cognition* 13:1–19. [JMB]
- Buss, D. M., ed. (2005) *The handbook of evolutionary psychology*. Wiley. [MMK]
- Buss, D. M. (2014) *Evolutionary psychology*, 5th edition. Pearson. [MMK, rPR]
- Buss, D. M. & Reeve, H. K. (2003) Evolutionary psychology and developmental dynamics. *Psychological Bulletin* 129:848–53. [MMK]
- Buttelmann, D. & Böhm, R. (2014) The ontogeny of the motivation that underlies in-group bias. *Psychological Science* 25:921–27. [CKWDD]
- Byars, S. G., Ewbank, D., Govindaraju, D. R. & Stearns, S. C. (2010) Natural selection in a contemporary human population. *Proceedings of the National Academy of Science USA* 107:1787–92. doi: 10.1073/pnas.0906199106. [aPR]
- Byrne, R. W. & Rapaport, L. G. (2011) What are we learning from teaching? *Animal Behaviour* 82(5):1207–11. doi: 10.1016/j.anbehav.2011.08.018. [JMB]
- Calvin, W. H. (1983) A stone's throw and its launch window: Timing precision and its implications for language and hominid brains. *Journal of Theoretical Biology* 104:121–35. [HG]
- Campbell, D. T. (1975) On the conflicts between biological and social evolution and between psychology and moral tradition. *American Psychologist* 30 (12):1103–26. [aPR]
- Capraro, V. & Cococcioni, G. (2015) Social setting, intuition, and experience in lab experiments interact to shape cooperative decision-making. Available at Social Science Research Network (SSRN): <http://ssrn.com/abstract=2559182>. [DA]
- Carballo, D. M., Roscoe, P. & Feinman, G. M. (2014) Cooperation and collective action in the cultural evolution of complex societies. *Journal of Archaeological Method and Theory* 21:98–133. [PT]
- Carey, S. (2009) *The origin of concepts*. Oxford University Press. [aPR]
- Carneiro, R. L. (1970) A theory of the origin of the state. *Science* 169:733–38. [PT]
- Cassidy, J. (2008) The nature of the child's ties. In: *Handbook of attachment: Theory, research, and clinical applications*, ed. J. Cassidy & P. R. Shaver, pp. 3–22. Guilford Press. [JSC]
- Cavalli-Sforza, L. L. & Feldman, M. W. (1981) *Cultural transmission and evolution: A quantitative approach*. Princeton University Press. [arPR]
- Cavalli-Sforza, L. L., Menozzi, P. & Piazza, A. (1994) *The history and geography of human genes*. Princeton University Press. [aPR]
- Cavalli-Sforza, L. L., Piazza, A., Menozzi, P. & Mountain, J. (1988) Reconstruction of human evolution: Bringing together genetic, archaeological, and linguistic data. *Proceedings of the National Academy of Sciences USA* 85(16):6002–6006. [aPR]
- Chanda, A., Cook, C. J. & Putterman, L. (2014) Persistence of fortune: Accounting for population movements, there was no post-Columbian reversal. *American Economic Journal: Macroeconomics* 6(3):1–28. doi: 10.1257/mac.6.3.1. [PH]
- Chapais, B. (2008) *Primate kinship: How pair-bonding gave birth to human society*. Harvard University Press. [aPR]
- Chen, Y. & Xin Li, S. (2009) Group identity and social preferences. *The American Economic Review* 99(1):431–57. [CA-C]
- Chiao, J. Y. & Blizinsky, K. D. (2010) Culture–gene coevolution of individualism–collectivism and the serotonin transporter gene. *Proceedings of the Royal Society B: Biological Sciences* 277(1681):529–37. doi: 10.1098/rspb.2009.1650. [aPR]
- Chisholm, J. S. (2003) Uncertainty, contingency and attachment: A life history theory of theory of mind. In: *From mating to mentality: Evaluating evolutionary psychology*, ed. K. Sterelny & J. Fitness, pp. 125–53. Psychology Press. [JSC]
- Choi, J.-K. & Bowles, S. (2007) The coevolution of parochial altruism and war. *Science* 318(5850):636–40. [aPR]
- Cieri, R. L., Churchill, S. E., Franciscus, R. G., Tan, J. & Hare, B. (2014) Craniofacial feminization, social tolerance, and the origins of behavioral modernity. *Current Anthropology* 55(4):419–43. [HG]
- Cikara, M., Bruneau, E., Van Bavel, J. J. & Saxe, R. (2014) Their pain gives us pleasure: How intergroup dynamics shape empathic failures and counter-empathic responses. *Journal of Experimental Social Psychology* 55:110–25. doi:10.1016/j.jesp.2014.06.007. [JMV]
- Cikara, M., Bruneau, E. C. & Saxe, R. R. (2011) Us and them: Intergroup failures of empathy. *Current Directions in Psychological Science* 20(3):149–53. doi:10.1177/0963721411408713. [JMV]
- Clark, J. D. & Brown, K. S. (2001) The Twin Rivers Kopje, Zambia: Stratigraphy, fauna, and artefact assemblages from the 1954 and 1956 excavations. *Journal of Archaeological Science* 28(3):305–30. [AF]
- Clutton-Brock, T. (2009) Cooperation between non-kin in animal societies. *Nature* 462(7269):51–57. [JH]
- Cochran, C. & Harpending, H. (2009) *The 10,000 year explosion: How civilization accelerated human evolution*. Basic Books. [aPR]
- Collard, M., Edinborough, K., Shennan, S. & Thomas, M. G. (2010) Radiocarbon evidence indicates that migrants introduced farming to Britain. *Journal of Archaeological Science* 37(4):866–70. doi: dx.doi.org/10.1016/j.jas.2009.11.016. [aPR]
- Cone, J. & Rand, D. C. (2014) Time pressure increases cooperation in competitively framed social dilemmas. *PLoS ONE* 9(12):e115756. doi: 10.1371/journal.pone.0115756. [DA]
- Cook, C. J. (2014) The role of lactase persistence in precolonial development. *Journal of Economic Growth* 19(4):369–406. doi: 10.1007/s10887-014-9109-5. [PH]
- Cooper, R. W. (1999) *Coordination games: Complementarities and macroeconomics*. Cambridge University Press. [aPR]
- Cornelissen, G., Dewitte, S. & Warlop, L. (2011) Are social value orientations expressed automatically? Decision making in the Dictator Game. *Personality and Social Psychology Bulletin* 37(8):1080–90. [DA]
- Corriveau, K. H., Chen, E. E. & Harris, P. L. (2014) Judgments about fact and fiction by children from religious and nonreligious backgrounds. *Cognitive Science* 39(2):353–82. [SS]
- Corriveau, K. H. & Harris, P. L. (2009) Preschoolers continue to trust a more accurate informant 1 week after exposure to accuracy information. *Developmental Science* 12(1):188–93. [SS]
- Corriveau, K. H., Kinzler, K. D. & Harris, P. L. (2013) Accuracy trumps accent in children's endorsement of object labels. *Developmental psychology* 49(3):470. [SS]
- Corriveau, K. H., Pickard, K. & Harris, P. L. (2011) Preschoolers trust particular informants when learning new names and new morphological forms. *British Journal of Developmental Psychology* 29(1):46–63. [SS]
- Cosmides, L. & Tooby, J. (2001) Unravelling the enigma of human intelligence: Evolutionary psychology and the multimodular mind. In: *The evolution of intelligence*, ed. R. J. Sternberg & J. C. Kaufman, pp. 145–99. Erlbaum. [aPR]
- Coussi-Korbel, S. & Frigaszy, D. M. (1995) On the relation between social dynamics and social learning. *Animal Behaviour* 50:1441–53. [JMB]
- Cronk, L. & Leech, B. H. (2013) *Meeting at Grand Central: Understanding the evolutionary roots of cooperation*. Princeton University Press. [aPR]
- Csibra, G. & Gergely, G. (2011) Natural pedagogy as an evolutionary adaptation. *Philosophical Transactions of the Royal Society B* 366:1149–57. [aPR]
- Currie, T. E., Greenhill, S. J., Gray, R. D., Hasegawa, T. & Mace, R. (2010) Rise and fall of political complexity in island South-East Asia and the Pacific. *Nature* 467 (7317):801–804. [arPR, RM]
- Currie, T. E. & Mace, R. (2009) Political complexity predicts the spread of ethno-linguistic groups. *Proceedings of the National Academy of Sciences USA* 106(18):7339–44. doi: 10.1073/pnas.0804698106. [aPR, RM]
- Curtin, P. D. (1984) *Cross-cultural trade in world history*. Cambridge University Press. [aPR]
- Daly, M. & Wilson, M. (1988) *Homicide*. Aldine de Gruyter. [MMK]
- Daly, M. & Wilson, M. (2010) Cultural inertia, economic incentives, and the persistence of “Southern violence.” In: *Evolution, culture, and the human mind*, ed. M. Schaller, A. Norenzayan, S. Heine, T. Yamagishi & T. Kameda, pp. 229–41. Taylor & Francis. [PB]
- Damasio, A. (1994) *Descartes' error: Emotion, reason, and the human brain*. Putnam. [JSC]
- Damasio, A. (1999) *The feeling of what happens: Body and emotion in the making of consciousness*. Harcourt Brace. [JSC]
- Darwin, C. (1871) *The descent of man, and selection in relation to sex*. Murray. [HG]
- Darwin, C. (1874) *The descent of man and selection in relation to sex*, 2nd edition. American Home Library. [CSi, arPR]
- Davies, N. (2011) *Vanished kingdoms: The rise and fall of states and nations*. Viking. [rPR]
- Dawkins, R. (1976) *The selfish gene*. Oxford University Press. [AW]
- Deacon, R. & Shapiro, P. (1975) Private preference for collective goods revealed through voting on referenda. *The American Economic Review* 65(5):943–55. [DA]
- Dean, L. G., Kendal, R. L., Schapiro, S. J., Thierry, B. & Laland, K. N. (2012) Identification of the social and cognitive processes underlying human cumulative culture. *Science* 335(6072):1114–18. doi: 10.1126/science.1213969. [arPR]
- De Dreu, C. K. W. (2010) Social conflict: The emergence and consequences of struggle and negotiation. In: *Handbook of social psychology*, vol. 2, 5th edition, ed. S. T. Fiske, D. T. Gilbert, & G. Lindzey, pp. 983–1023. Wiley. [CKWDD]
- De Dreu, C. K. W., Balliet, D. & Halevy, N. (2014) Parochial cooperation in humans: Forms and functions of self-sacrifice in intergroup competition and conflict. In: *Advances in motivational science*, vol. 1, ed. A. J. Elliot, pp. 1–47. Elsevier. [CKWDD]
- De Dreu, C. K. W. & Carnevale, P. J. D. (2003) Motivational bases of information processing and strategy in conflict and negotiation. In: *Advances in experimental social psychology*, vol. 35, ed. M. P. Zanna, pp. 235–91. Academic Press. [CKWDD]
- De Dreu, C. K. W., Greer, L. L., Handgraaf, M. J. J., Shalvi, S., Van Kleef, G. A., Baas, M., Ten Velden, F. S., Van Dijk, E. & Feith, S. W. W. (2010) The neuropeptide oxytocin regulates parochial altruism in intergroup conflict among humans. *Science* 328:1408–11. [CKWDD]

- De Dreu, C. K. W., Greer, L. L., Van Kleef, G. A., Shalvi, S. & Handgraaf, M. J. J. (2011) Oxytocin promotes human ethnocentrism. *Proceedings of the National Academy of Sciences USA* 108:1262–66. [CKWDD]
- Dell'Mour, V., Range, F. & Huber, L. (2009) Social learning and mother's behavior in manipulative tasks in infant marmosets. *American Journal of Primatology* 71(6):503–509. [JMB]
- Delton, A. W. & Krasnow, M. M. (2014) An independent replication that the evolution of direct reciprocity under uncertainty explains one-shot cooperation: Commentary on Zefferman. *Evolution and Human Behavior* 35(6):547–48. doi: <http://dx.doi.org/10.1016/j.evolhumbehav.2014.07.004>. [rPR]
- Delton, A. W., Krasnow, M. M., Cosmides, L. & Tooby, J. (2011) Evolution of direct reciprocity under uncertainty can explain human generosity in one-shot encounters. *Proceedings of the National Academy of Sciences USA* 108(32):13335–40. doi: 10.1073/pnas.1102131108. [arPR, JH, JT]
- Dereux, M., Godelle, B. & Raymond, M. (2014) How does competition affect the transmission of information? *Evolution and Human Behavior* 35(2):89–95. doi: dx.doi.org/10.1016/j.evolhumbehav.2013.11.001. [aPR]
- Derfus, P., Maggitti, P., Grimm, C. & Smith, K. (2008) The Red Queen effect: Competitive actions and firm performance. *The Academy of Management Journal* 51(1):61–80. [aPR]
- Deutsch, M. (1973) *The resolution of conflict*. Academic Press. [CKWDD]
- Diamond, J. (1993) New Guineans and their natural world. In: *The biophilia hypothesis*, ed. S. R. Kellert & E. O. Wilson, pp. 251–71. Island Press. [HH]
- Doebel, S., Koenig, M. A. & Rowell, S. (2011) Young children detect logical inconsistency. Poster presented at the 2011 Biennial Meeting of the Society for Research in Child Development, Montreal, Quebec, Canada, March 31–April 2, 2011. [SS]
- Donald, M. (1991) *Origins of the modern mind: Three stages in the evolution of culture and cognition*. Harvard University Press. [aPR]
- Dreber, A., Fudenberg, D., Levine, D. K. & Rand, D. G. (2014) Altruism and self-control. Available at Social Science Research Network (SSRN): <http://ssrn.com/abstract=2477454>. [DA]
- Dunham, Y., Baron, A. S. & Banaji, M. R. (2008) The development of implicit intergroup cognition. *Trends in Cognitive Sciences* 12:248–53. [aPR]
- Durham, W. H. (1991) *Coevolution: Genes, culture, and human diversity*. Stanford University Press. [aPR]
- Durkheim, E. (1912) *The elementary forms of the religious life*. Allen & Unwin. [aPR]
- Eccleston, C. & Crombez, G. (1999) Pain demands attention: A cognitive-affective model on the interruptive function of pain. *Psychological Bulletin* 125:356–66. [JMV]
- Edgerton, R. B. (1971) *The individual in cultural adaptation: A study of four East African peoples*. University of California Press. [aPR, JH]
- Efferson, C., Lalive, R. & Fehr, E. (2008) The coevolution of cultural groups and ingroup favoritism. *Science* 321:1844–49. [aPR]
- Eisenberger, N. I. & Cole, S. W. (2012) Social neuroscience and health: Neurophysiological mechanisms linking social ties with physical health. *Nature Neuroscience* 15(5):669–74. doi:10.1038/nn.3086. [JMV]
- Eldakar, O. T. & Wilson, D. S. (2008) Selfishness as second order altruism. *Proceedings of the National Academy of Sciences USA* 105(19):6982–86. [aPR]
- Ellingsen, T., Herrmann, B., Nowak, M. A., Rand, D. G. & Tarnita, C. E. (2012) Civic capital in two cultures: The nature of cooperation in Romania and USA. CESifo Working Paper: Behavioural Economics. Available at Social Science Research Network (SSRN): <http://ssrn.com/abstract=2179575>. [DA]
- Endler, J. A. (1986) *Natural selection in the wild*. Princeton University Press. [aPR]
- Erdal, D. & Whiten, A. (1996) Egalitarianism and Machiavellian intelligence in human evolution. In: *Modelling the early human mind*, ed. P. Mellars & K. Gibson, pp. 139–50. McDonald Institute Monographs. [AW]
- Evans, N. & Levinson, S. C. (2009) The myth of language universals: Language diversity and its importance for cognitive science. *Behavioral and Brain Sciences* 32(5):429–92. [aPR]
- Evans, N. & McConnell, P. (1998) The enigma of Pama-Nyungan expansion in Australia. In: *Archaeology and Language II: Correlating archaeological and linguistic hypotheses*, ed. R. Blench & M. Spriggs, pp. 174–91. Routledge. [JH]
- Evans-Pritchard, E. E. (1940) *The Nuer: A description of the modes of livelihood and political institutions of a Nilotic people*. Clarendon Press. [DR, rPR]
- Falk, A. & Zehnder, C. (2013) A city-wide experiment on trust discrimination. *Journal of Public Economics* 100: 15–27. [SL]
- Fearon, R. P., Bakermans-Kranenburg, M. J., van IJzendoorn, M. H., Lapsley, A.-M. & Roisman, G. I. (2010) The significance of insecure attachment and disorganization in the development of children's externalizing behavior: A meta-analytic study. *Child Development* 81:435–56. [JSC]
- Fehr, E. & Fischbacher, U. (2003) The nature of human altruism. *Nature* 425:784–91. [OM]
- Fehr, E. & Gächter, S. (2002) Altruistic punishment in humans. *Nature* 415(6868):137–40. [aPR]
- Fehr, E. & Henrich, J. (2003) Is strong reciprocity a maladaptation? On the evolutionary foundations of human altruism. In: *Genetic and cultural evolution of cooperation*, ed. P. Hammerstein, pp. 55–82. MIT Press. [aPR]
- Feldman, M. W. & Laland, K. N. (1996) Gene-culture coevolutionary theory. *Trends in Ecology and Evolution* 11(11):453–57. doi: 10.1016/0169-5347(96)10052-5 [aPR]
- Finke, R. & Stark, R. (1992) *The Churched of America, 1776–1990: Winners and losers in our religious economy*. Rutgers University Press. [aPR]
- Fischer, D. H. (1989) *Albion's seed: Four British folkways in America*. Oxford University Press. [rPR]
- Fiske, A. (1992) The four elementary forms of sociality: Framework for a unified theory of social relations. *Psychological Review* 99(4):689–23. [JH]
- Flack, J. C., de Waal, F. B. M. & Krakauer, D. C. (2005) Social structure, robustness, and policing cost in a cognitively sophisticated species. *The American Naturalist* 165(5):E126–39. doi:10.1086/429277. [MS]
- Flack, J. C., Girvan, M., de Waal, F. B. M. & Krakauer, D. C. (2006) Policing stabilizes construction of social niches in primates. *Nature* 439(7075):426–29. doi: 10.1038/nature04326. [MS]
- Flegr, J. (2010) Elastic, not plastic species: Frozen plasticity theory and the origin of adaptive evolution in sexually reproducing organisms. *Biology Direct* 5(1):2. doi: 10.1186/1745-6150-5-2. [PH]
- Flinn, M. V. & Alexander, R. D. (2007) Runaway sexual selection in human evolution. In: *The evolution of mind: Fundamental questions and controversies*, ed. S. W. Gangestad & J. A. Simpson, pp. 249–55. Guilford Press. [RMN]
- Foley, R. & Gamble, C. (2009) The ecology of social transitions in human evolution. *Philosophical Transactions of the Royal Society, B* 364:3267–79. [CA-C]
- Fonagy, P., Gergely, G. & Target, M. (2007) The parent-infant dyad and the construction of the subjective self. *Journal of Child Psychology and Psychiatry* 48:288–28. [JSC]
- Fonagy, P. & Target, M. (1997) Attachment and reflective function: Their role in self-organization. *Development and Psychopathology* 9(4):679–700. [JSC]
- Foster, C. M. (1960) *Culture and conquest: America's Spanish heritage*. Wenner-Gren Foundation for Anthropological Research. [rPR]
- Frank, S. A. (2006) Social selection. In: *Evolutionary genetics: Concepts and case studies*, ed. C. W. Fox & J. B. Wolf, pp. 350–63. Oxford University Press. [RMN]
- Fuentes, A. (2015) Integrative anthropology and the human niche: Towards a contemporary approach to human evolution. *American Anthropologist* 117(2):302–15. doi: 10.1111/aman.12248. [AF]
- Fukuyama, F. (2011) *The origins of political order: From prehuman times to the French Revolution*. Farrar, Straus and Giroux. [aPR]
- Gächter, S., Herrmann, B. & Thöni, C. (2010) Culture and cooperation. *Philosophical Transactions of the Royal Society B: Biological Sciences* 365(1553):2651–61. [DA]
- Gambetta, D. (1993) *The Sicilian Mafia: The business of private protection*. Harvard University Press. [aPR]
- Gardner, A. & Grafen, A. (2009) Capturing the superorganism: A formal theory of group adaptation. *Journal of Evolutionary Biology* 22:659–71. [PB]
- Gardner, T. M. (2003) In the trenches at the talent wars: An examination of competitive interaction for human resources in the software industry. CAHRS Working Paper Series. Cornell University, School of Industrial and Labor Relations. [aPR]
- Gat, A. (2008) *War in human civilization*. Oxford University Press. [aPR]
- Geary, D. C. (2010) *Male, female: The evolution of human sex differences*, 2nd edition. American Psychological Association. [JMV]
- Geary, D. C., Byrd-Craven, J., Hoard, M. K., Vigil, J. & Numtee, C. (2003) Evolution and development of boys' social behavior. *Developmental Review* 23:444–70. [JMV]
- Gelfand, M. J., Raver, J., Nishii, L., Leslie, L. & Lun, J., Lim, B. C., Duan, L., Almaliah, A., Ang, S., Arndt, J., Aycan, Z., Boehnke, K., Boski, K., Cabecinhas, R., Chan, D., Chhokar, J., D'Amato, A., Ferrer, M., Fischlmayr, I. C., Fischer, R., Fulop, M., Georgas, J., Kashima, E. S., Kashima, Y., Kim, K., Lempereur, A., Marquez, P., Othman, R., Overlaet, B., Panagiotopoulou, P., Peltzer, K., Perez-Florizno, L. R., Ponomarenko, L., Realo, A., Schei, V., Schmitt, M., Smith, P. B., Soomro, N., Szabo, E., Taveesin, N., Toyama, M., Van de Vliert, E., Vohra, N., Ward, C. & Yamaguchi, S. (2011) Differences between tight and loose cultures: A 33-nation study. *Science* 332:1100–104. [MJG]
- Gerbault, P., Allaby, R. G., Boivin, N., Ruzdinski, A., Grimaldi, I. M., Pires, J. C., Vigueira, C. C., Dobney, K., Gremillion, K. J., Barton, L., Arroyo-Kalin, M., Purugganan, M. D., Rubio de Casas, R., Bollongino, R., Burger, J., Fuller, D. Q., Bradley, D. G., Balding, D. J., Richerson, P. J., Gilbert, M. T. P., Larsen, G. & Thomas, M. C. (2014) Storytelling and story testing in domestication. *Proceedings of the National Academy of Sciences USA* 111(17):6159–64. doi: 10.1073/pnas.1400425111. [rPR]
- Gervais, W. M., Willard, A. K., Norenzayan, A. & Henrich, J. (2011) The cultural transmission of faith: Why innate intuitions are necessary, but insufficient, to explain religious belief. *Religion* 41(3):389–10. doi: 10.1080/0048721x.2011.604510. [arPR]
- Ghirlanda, S., Acerbi, A. & Herzog, H. (2014) Dog movie stars and dog breed popularity: A case study in media influence on choice. *PLoS One* 9(9): e106565. [HH]

- Ghirlanda, S., Acerbi, A., Herzog, H. & Serrall, J. A. (2013) Fashion vs. function in cultural evolution: The case of dog breed popularity. *PLoS One* 8(9):e74770. [HH]
- Gibbons, A. (2014) How we tamed ourselves – and became modern. *Science* 346(6208):405–406. [HG]
- Gibson, C. C., Andersson, K., Ostrom, E. & Shivakumar, S. (2005) *The Samaritan's dilemma: The political economy of development aid*. Oxford University Press. [rPR]
- Gintis, H. (2008) Punishment and cooperation. *Science* 319(5868):1345–46. doi: 10.1126/science.1155333. [PH]
- Gintis, H. (2014) Inclusive fitness and the sociobiology of the genome. *Biology and Philosophy* 29(4):477–15. [HG]
- Gintis, H., van Schaik, C. & Boehm, C. (2015) The evolutionary origins of human political systems. *Current Anthropology* 56(3):327–53. Available at: <http://carta.anthropogeny.org/libraries/bibliography/zoom-politikon-the-evolutionary-origins-of-human-political-systems>. Also available at: <http://people.umass.edu/gintis>. [HG]
- Glaeser, E., La Porta, R., Lopez-de-Silanes, F. & Shleifer, A. (2004) Do institutions cause growth? *Journal of Economic Growth* 9(3):271–303. doi: 10.1023/B:JOEG.0000038933.16398.ed. [PH]
- Glantz, D. M. & House, J. M. (1998) *When Titans clashed: How the Red Army stopped Hitler*. University Press of Kansas. [aPR]
- Gluga, T. & Csibra, G. (2009) One-year-old infants appreciate the referential nature of deictic gestures and words. *Psychological Science* 20(3):347–53. [SS]
- Glowacki, L. & Wrangham, R. W. (2013) The role of rewards in motivating participation in simple warfare. *Human Nature* 24(4):444–60. doi:10.1007/s12110-013-9178-8. [MS]
- Grafen, A. (1984) Natural selection, kin selection, and group selection. In: *Behavioural ecology: An evolutionary approach*, ed. J. R. Krebs & N. B. Davies, Ch. 3, pp. 62–84. Sinauer. [HG]
- Graham, J. & Haidt, J. (2010) Beyond beliefs: Religions bind individuals into moral communities. *Personality and Social Psychology Review* 14(1):140–50. [aPR]
- Gray, P. B. & Young, S. M. (2011) Human–pet dynamics in cross-cultural perspective. *Anthrozoös* 24(1):17–30. [HH]
- Gray, R. D., Drummond, A. J. & Greenhill, S. J. (2009) Language phylogenies reveal expansion pulses and pauses in Pacific settlement. *Science* 323(5913):479–83. doi: 10.1126/science.1166858. [aPR]
- Greenwald, A. G. & Pettigrew, T. F. (2014) With malice toward none and charity for some: Ingroup favoritism enables discrimination. *American Psychologist* 69:669–84. [CKWDD]
- Greif, A. (2006) *Institutions and the path to the modern economy: Lessons from medieval trade*. Cambridge University Press. [aPR]
- Grove, M. & Coward, F. (2008) From individual neurons to social brains. *Cambridge Archaeological Journal* 18:387–400. doi: 10.1017/S0959774308000437. [AF]
- Guglielmino, C. R., Viganotti, C., Hewlett, B. & Cavalli-Sforza, L. L. (1995) Cultural variation in Africa: Role of mechanisms of transmission and adaptation. *Proceedings of the National Academy of Sciences* 92(16):7585–89. [aPR]
- Gürer, Ö., Irlenbusch, B. & Rockenbach, B. (2006) The competitive advantage of sanctioning institutions. *Science* 312(5770):108–11. doi: 10.1126/science.1123633. [DA, aPR]
- Curven, M. (2004) Economic games among the Amazonian Tsimane: Exploring the roles of market access, costs of giving, and cooperation on pro-social game behavior. *Experimental Economics* 7(1):5–24. [SL]
- Curven, M., Zanolini, A. & Schniter, E. (2008) Culture sometimes matters: Intra-cultural variation in pro-social behavior among Tsimane Amerindians. *Journal of Economic Behavior and Organization* 67(3–4):587–607. [SL]
- Guthrie, R. D. (2005) *The nature of Paleolithic art*. Chicago University Press. [aPR]
- Haak, W., Balanovsky, O., Sanchez, J. J., Koshel, S., Zaporozhchenko, V., Adler, C. J., Der Sarkissian, C. S. I., Brandt, G., Schwarz, C., Nicklisch, N., Dresely, V., Fritsch, B., Balanovska, E., Villems, R., Meller, H., Alt, K. W., Cooper, A. & the Genographic Consortium (2010) Ancient DNA from European early Neolithic farmers reveals their Near Eastern affinities. *PLoS Biology* 8(11):e1000536. doi: 10.1371/journal.pbio.1000536 [aPR]
- Hagen, E. H. & Hammerstein, P. (2006) Game theory and human evolution: A critique of some recent interpretations of experimental games. *Theoretical Population Biology* 69(3):339–48. doi: 10.1016/j.tpb.2005.09.005. [aPR, CKWDD]
- Haley, N., Bornstein, G. & Sagiv, L. (2008) “In-group love” and “out-group hate” as motives for individual participation in intergroup conflict: A new game paradigm. *Psychological Science* 19:405–11. [CKWDD]
- Haley, N., Weisel, O. & Bornstein, G. (2012) “In-group love” and “out-group hate” in repeated interaction between groups. *Journal of Behavioral Decision Making* 25:188–95. [CKWDD]
- Hämäläinen, P. (2003) The rise and fall of Plains Indian horse cultures. *The Journal of American History* 90(3):833–62. [HH]
- Hämäläinen, P. (2008) *The Comanche empire*. Yale University Press. [arPR]
- Hamilton, W. D. (1975) Innate social aptitudes of man: An approach from evolutionary genetics. In: *Biosocial Anthropology*, ed. R. Fox, pp. 133–53. Malaby Press. [PB]
- Hamlin, J. K., Wynn, K., Bloom, P. & Mahajan, N. (2011) How infants and toddlers react to antisocial others. *Proceedings of the National Academy of Sciences USA* 108(50):19931–36. doi: 10.1073/pnas.1110306108. [aPR, DA]
- Handley, L. J. L., Manica, A., Goudet, J. & Balloux, F. (2007) Going the distance: Human population genetics in a clinal world. *Trends in Genetics* 23(9):432–39. doi: 10.1016/j.tig.2007.07.002. [RMR]
- Hannan, M. T. & Freeman, J. (1993) *Organizational ecology*: Harvard University Press. [aPR]
- Hare, B., Plyusina, I., Ignacio, N., Schepina, O., Stepika, A., Wrangham, R. & Trut, L. (2005) Social cognitive evolution in captive foxes is a correlated by-product of experimental domestication. *Current Biology* 15:226–30. [JSC]
- Harrington, J. & Gelfand, M. J. (2014) Tightness-looseness across the U.S. 50 states. *Proceedings of the National Academy of Sciences USA* 111:7990–95. [MJG]
- Harris, P. L. (2012) *Trusting what you're told: How children learn from others*. Harvard University Press. [aPR]
- Haslam, S. A. (2001) *Psychology in organizations: The social identity approach*. Sage. [arPR]
- Haunschild, P. R. (1993) Interorganizational imitation: The impact of interlocks on corporate acquisition activity. *Administrative Science Quarterly* 38(4):564–92. doi: 10.2307/2393337 [aPR]
- Hauser, O. P., Rand, D. G., Peysakhovich, A. & Nowak, M. A. (2014) Cooperating with the future. *Nature* 511:220–23. [DA]
- Havlicek, J. & Roberts, S. C. (2013) The perfume-body odour complex: An insightful model for culture–gene coevolution? In: *Chemical signals in vertebrates 12*, ed. M. L. East & M. Dehnhard, pp. 185–95. Springer. [PH]
- Hayes, C. (1951) *The ape in our house*. Harper. [aPR]
- Henrich, J. (2004) Cultural group selection, co-evolutionary processes, and large-scale cooperation. *Journal of Economic Behavior and Organization* 53:3–35. [CKWDD]
- Henrich, J. (2004) Demography and cultural evolution: Why adaptive cultural processes produced maladaptive losses in Tasmania. *American Antiquity* 69(2):197–214. [aPR]
- Henrich, J. (2016) *The secret of our success: How learning from others drove human evolution, domesticated our species, and made us smart*. Princeton University Press. [JH]
- Henrich, J., Bowles, S., Boyd, R. T., Hopfensitz, A., Richerson, P. J., Sigmund, K., Smith, E. A., Weissing, F. J. & Young, H. P. (2003) Group report: The cultural and genetic evolution of human cooperation. In: *Genetic and cultural evolution of cooperation*, ed. P. Hammerstein, pp. 445–68. MIT Press. [aPR]
- Henrich, J., Boyd, R., Bowles, S., Camerer, C., Fehr, E. & Gintis, H. (2004) *Foundations of human sociality: Economic experiments and ethnographic evidence from fifteen small-scale societies*. Oxford University Press. [arPR, SL]
- Henrich, J., Boyd, R., Bowles, S., Camerer, C., Fehr, E., Gintis, H. & McElreath, R. (2001) In search of Homo economicus: Behavioral experiments in 15 small-scale societies. *American Economic Review* 73–78. [DA]
- Henrich, J., Boyd, R., Bowles, S., Camerer, C. F., Fehr, E., Gintis, H., McElreath, R., Alvard, M., Barr, A., Ensminger, J., Henrich, N. S., Hill, K., Gil-White, F., Gurven, M., Marlowe, F. W., Patton, J. Q. & Tracer, D. (2005) “Economic man” in cross-cultural perspective: Behavioral experiments in 15 small-scale societies. *Behavioral and Brain Sciences* 28(6):795–15. doi:10.1017/S0140525X05000142. [RM]
- Henrich, J., Boyd, R., McElreath, R., Curven, M., Richerson, P. J., Ensminger, J., Alvard, M., Barr, A., Barrett, C., Bolyanatz, A., Camerer, C., Cardenas, J.-C., Fehr, E., Gintis, H. M., Gil-White, F., Gwako, E. L., Henrich, N., Hill, K., Lesorogol, C., Patton, J. Q., Marlowe, F. W., Tracer, D. P. & Ziker, J. (2012a) Culture does account for variation in game behavior. *Proceedings of the National Academy of Sciences USA* 109(2):E32–33. doi: 10.1073/pnas.1118607109. [rPR]
- Henrich, J., Boyd, R. & Richerson, P. J. (2012b) The puzzle of monogamous marriage. *Philosophical Transactions of the Royal Society B: Biological Sciences* 367(1589):657–69. doi: 10.1098/rstb.2011.0290. [aPR, JH]
- Henrich, J., Ensminger, J., McElreath, R., Barr, A., Barrett, C., Bolyanatz, A., Cardenas, J. C., Curven, M., Gwako, E., Henrich, N., Lesorogol, C., Marlowe, F., Tracer, D. P. & Ziker, J. (2010a) Markets, religion, community size, and the evolution of fairness and punishment. *Science* 327(5972):1480–84. doi: 10.1126/science.1182238. Available at: <http://www.sciencemag.org/content/327/5972/1480>. [arPR, SL, RM]
- Henrich, J. & Gil-White, F. J. (2001) The evolution of prestige – Freely conferred deference as a mechanism for enhancing the benefits of cultural transmission. *Evolution and Human Behavior* 22(3):165–96. [rPR]
- Henrich, J., Heine, S. J. & Norenzayan, A. (2010b) The weirdest people in the world? *Behavioral and Brain Sciences* 33(2–3):61–83; discussion: 83–135. doi: 10.1017/S0140525X0999152X. [DA]
- Henrich, J., McElreath, R., Barr, A., Ensminger, J., Barrett, C., Bolyanatz, A., Cardenas, J. C., Curven, M., Gwako, E. L., Henrich, N. S., Lesorogol, C., Marlowe, F., Tracer, D. & Ziker, J. (2006) Costly punishment across human societies. *Science* 312(5781):1767–70. doi: 10.1126/science.1127333. [arPR, SL, RM]

- Henrich, N. & Henrich, J. (2007) *Why humans cooperate: A cultural and evolutionary explanation*. Oxford University Press. [JH]
- Henzi, S. P., de Sousa Pereira, L. F., Hawker-Bond, D., Stiller, J., Dunbar, R. I. M. & Barrett, L. (2007) Look who's talking: Developmental trends in the size of conversational cliques. *Evolution and Human Behavior* 28:66–74. [CA-C]
- Herrmann, B., Thöni, C. & Gächter, S. (2008) Antisocial punishment across societies. *Science* 319(5868):1362–67. doi: 10.1126/science.1153808. [arPR, DA, PH, SL]
- Herrmann, E., Call, J., Hernandez-Lloreda, M. V., Hare, B. & Tomasello, M. (2007) Humans have evolved specialized skills of social cognition: The cultural intelligence hypothesis. *Science* 317:1360–66. [AF]
- Herrmann, P. A., Legare, C. H., Harris, P. L. & Whitehouse, H. (2013) Stick to the script: The effect of witnessing multiple actors on children's imitation. *Cognition* 129(3):536–43. Available at: <http://dx.doi.org/10.1016/j.cognition.2013.08.010>. [aPR]
- Herzog, H. (2006) Forty-two thousand and one Dalmatians: Fads, social contagion, and dog breed popularity. *Society and Animals* 14(4):383–97. [HH]
- Herzog, H. (2011) The impact of pets on human health and psychological well-being: Fact, fiction, or hypothesis? *Current Directions in Psychological Science* 20(4):236–39. [HH]
- Herzog, H. A. (2014) Biology, culture, and the origins of pet-keeping. *Animal Behavior and Cognition* 1(3):296–308. [HH]
- Herzog, H. A., Bentley, R. A. & Hahn, M. W. (2004) Random drift and large shifts in popularity of dog breeds. *Proceedings of the Royal Society B: Biological Sciences* 271:353–56. [HH]
- Hewlett, B., Fouts, H. N., Boyette, A. H. & Hewlett, B. L. (2011) Social learning among Congo Basin hunter-gatherers. *Philosophical Transactions of the Royal Society B* 366:1168–78. [AW]
- Hilbe, C. & Traulsen, A. (2012) Emergence of responsible sanctions without second order free riders, antisocial punishment or spite. *Scientific Reports* 2, Article No. 458. Published Online, June 13, 2012. doi: 10.1036/srep00458. [MJG]
- Hill, K., Barton, M. & Hurtado, A. M. (2009) The emergence of human uniqueness: Characters underlying behavioral modernity. *Evolutionary Anthropology* 18:174–87. [aPR]
- Hill, K. R., Walker, R. S., Božičević, M., Eder, J., Headland, T., Hewlett, B., Hurtado, A. M., Marlowe, F., Wiessner, P. & Wood, B. (2011) Co-residence patterns in hunter-gatherer societies show unique human social structure. *Science* 331(6022):1286–89. [aPR]
- Hill, K. R., Wood, B. M., Baggio, J., Hurtado, A. M. & Boyd, R. T. (2014) Hunter-gatherer inter-band interaction rates: Implications for cumulative culture. *PLoS ONE* 9(7):e102806. doi: 10.1371/journal.pone.0102806. [arPR]
- Hobson, P. (2004) *The cradle of thought: Exploring the origins of thinking*. Oxford University Press. [JSC]
- Hodges, B. H. (2014) Rethinking conformity and imitation: divergence, convergence, and social understanding. *Frontiers in Psychology: Cognitive Science* 5, Article No. 726. doi: 10.3389/fpsyg.2014.00726. [SS]
- Holden, C. J. (2002) Bantu language trees reflect the spread of farming across Sub-Saharan Africa: A maximum-parsimony analysis. *Proceedings of the Royal Society: Biological Sciences* 269(1493):793–99. doi: 10.2307/3067712. [aPR]
- Holsinger, K. E. & Weir, B. S. (2009) Genetics in geographically structured populations: Defining, estimating and interpreting F_{ST} . *Nature Reviews Genetics* 10(9):639–50. doi: 10.1038/nrg2611. [RMR]
- Horan, R. D., Bulte, E. & Shoran, J. F. (2005) How trade saved humanity from biological exclusion: An economic theory of Neanderthal extinction. *Journal of Economic Behavior and Organization* 58:68–76. [CKWDD]
- Horowitz, M. C. (2010) *The diffusion of military power: Causes and consequences for international politics*. Princeton University Press. [rPR]
- Hout, M., Greeley, A. M. & Wilde, M. J. (2001) The demographic imperative in religious change in the United States. *American Journal of Sociology* 107(2):468–86. [aPR]
- Howitt, A. W. (1885) The Jerael, or initiation ceremonies of the Kumai tribe. *Journal of the Anthropological Institute of Great Britain and Ireland* 14:301–25. [MS]
- Hrdy, S. B. (2009) *Mothers and others: The evolutionary origins of mutual understanding*. Harvard University Press. [aPR, JMB]
- Hrdy, S. B. (2000) *Mother nature: Maternal instincts and how they shape the human species*. Ballantine. [HG]
- Hugenberg, K. & Bodenhausen, C. V. (2004) Ambiguity in social categorization: The role of prejudice and facial affect in racial categorization. *Psychological Science* 15:342–45. [aPR]
- Humle, T. & Snowdon, C. T. (2008) Socially biased learning in the acquisition of a complex foraging task in juvenile cottontop tamarins (*Saguinus oedipus*). *Animal Behaviour* 27(1):267–77. [JMB]
- Humle, T., Snowdon, C. T. & Matsuzawa, T. (2009) Social influences on ant-dipping acquisition in the wild chimpanzees (*Pan troglodytes verus*) of Bossou, Guinea, West Africa. *Animal Cognition* 12(1):37–48. [JMB]
- Hurford, J. R. (2007) *The origins of meaning*. Oxford University Press. [aPR]
- Hurford, J. R. (2011) *The origins of grammar: Language in the light of evolution II*. Oxford University Press. [aPR]
- Huxley, T. H. (1894) *Discourses, biological and geological: Essays (vol. 8)*. D. Appleton. [SL]
- Hwang, V. W. & Horowitz, G. (2012) *The rainforest: The secret to building the next Silicon Valley*. Regewald. [aPR]
- Iannaccone, L. R. (1992) Sacrifice and stigma: Reducing free-riding in cults, communes, and other collectives. *The Journal of Political Economy* 100(2):271–91. [aPR]
- Iannaccone, L. R. (1994) Why strict churches are strong. *American Journal of Sociology* 99(5):1180–1211. [aPR]
- Iannaccone, L. R. (1998) Introduction to the economics of religion. *Journal of Economic Literature* 36(2):1465–95. [PH]
- Ibrahim, M. (1990) *Merchant capital and Islam*. University of Texas Press. [aPR]
- Insko, C. A., Gilmore, R., Drenan, S., Lipsitz, A., Moehle, D. & Thibaut, J. (1983) Trade versus expropriation in open groups: A comparison of two type of social power. *Journal of Personality and Social Psychology* 44:977–99. [arPR]
- Itan, Y., Powell, A., Beaumont, M. A., Burger, J. & Thomas, M. G. (2009) The origins of lactase persistence in Europe. *PLoS Computational Biology* 5(8):e1000491. doi: 10.1371/journal.pcbi.1000491. [arPR]
- Jablonka, E. & Lamb, M. (2005) *Evolution in four dimensions: Genetic, epigenetic, behavioral, and symbolic variation in the history of life*. MIT Press. [AF]
- Jacobs, R. C. & Campbell, D. T. (1961) The perpetuation of an arbitrary tradition through several generations of laboratory microculture. *Journal of Abnormal and Social Psychology* 62:649–58. [aPR]
- Jaswal, V. K. (2010) Believing what you're told: Young children's trust in unexpected testimony about the physical world. *Cognitive Psychology* 61(3):248–72. [SS]
- Jaswal, V. K., Croft, A. C., Setia, A. R. & Cole, C. A. (2010) Young children have a specific, highly robust bias to trust testimony. *Psychological Science* 21(10):1541–47. [SS]
- Jaswal, V. K. & Neely, L. A. (2006) Adults don't always know best: Preschoolers use past reliability over age when learning new words. *Psychological Science* 17:757–58. [SS]
- Jobling, M. A. (2012) The impact of recent events on human genetic diversity. *Philosophical Transactions of the Royal Society B: Biological Sciences* 367(1590):793–99. doi: 10.1098/rstb.2011.0297. [RMR]
- John, O. P., Naumann, L. P. & Soto, C. J. (2008) Paradigm shift to the integrative big five trait taxonomy. *Handbook of personality: Theory and research* 3:114–58. [MJG]
- Johnson, A. W. & Earle, T. (2000) *The evolution of human societies: From foraging group to agrarian state*, 2nd edition. Stanford University Press. [PT]
- Johnson, D. (2005) God's punishment and public goods. *Human Nature* 16(4):410–46. [aPR]
- Jones, D. M., Bremer, S. A. & Singer, J. D. (1996) Militarized interstate disputes, 1816–1992: Rationale, coding rules, and empirical patterns. *Conflict Management and Peace Science* 15:163–213. [CKWDD]
- Jordan, P. (2015) *Technology as human social tradition: Cultural transmission among hunter-gatherers*. University of California Press. [rPR, AW]
- Jorgensen, J. G. (1980) *Western Indians: Comparative environments, languages, and cultures of 172 Western American Indian tribes*. W. H. Freeman. [aPR]
- Jurmain, R., Nelson, H., Kilgore, L. & Travathan, W. (1997) *Introduction to physical anthropology*. Wadsworth. [HG]
- Keeley, L. H. (1997) *War before civilization*. Oxford University Press. [aPR]
- Kelly, R. C. (1980) *Etoro social structure: A study in structural contradiction*. The University of Michigan Press. [MS]
- Kelly, R. C. (1985) *The Nuer conquest: The structure and development of an expansionist system*. University of Michigan Press. [arPR]
- Kempe, M. & Mesoudi, A. (2014) Experimental and theoretical models of human cultural evolution. *Wiley Interdisciplinary Reviews: Cognitive Science* 5(3):317–26. doi: 10.1002/wcs.1288. [aPR]
- Kinzler, K. D., Corriveau, K. H. & Harris, P. L. (2011) Children's selective trust in native-accented speakers. *Developmental Science* 14:106–111. [aPR]
- Kinzler, K. D., Shutts, K., DeJesus, J. & Spelke, E. S. (2009) Accent trumps race in guiding children's social preferences. *Social Cognition* 27(4):623–34. doi: 10.1521/soco.2009.27.4.623 [aPR]
- Kirschner, S. & Tomasello, M. (2010) Joint music making promotes prosocial behavior in 4-year-old children. *Evolution and Human Behavior* 31(5):354–64. doi: 10.1016/j.evolhumbehav.2010.04.004. [aPR]
- Klepper, S. & Sleeper, S. (2005) Entry by spinoffs. *Management Science* 51(8):1291–1306. [aPR]
- Kline, M. A. (2015) How to learn about teaching: An evolutionary framework for the study of teaching in humans and other animals. *Behavioral and Brain Sciences* 38:e31. Available at: dx.doi.org/10.1017/S0140525X14000090 [aPR, JMB]
- Knauff, B. M. (1985) *Good company and violence: Sorcery and social action in a lowland New Guinea Society*. University of California Press. [rPR]
- Knobel, D. L. (2009) Aspects of dog ownership and canine rabies control in Africa and Asia. Doctoral dissertation, Centre for Tropical Veterinary Medicine, Royal (Dick) School of Veterinary Studies, University of Edinburgh. [HH]
- Koenig, M. A. & Echols, C. H. (2003) Infants' understanding of false labeling events: The referential roles of words and the speakers who use them. *Cognition* 87(3):179–208. [SS]

- Koenig, M. A. & Harris, P. L. (2005) Preschoolers mistrust ignorant and inaccurate speakers. *Child Development* 76(6):1261–77. [SS]
- Koenig, M. A. & Jaswal, V. K. (2011) Characterizing children's expectations about expertise and incompetence: Halo or pitchfork effects? *Child Development* 82(5):1634–47. [SS]
- Koenig, M. A. & Stephens, E., (2014) Characterizing children's responsiveness to cues of speaker trustworthiness: Two proposals. In: *Trust and skepticism: Children's selective learning from testimony*, ed. E. Robinson & S. Einav, pp. 13–27. Psychology Press. [SS]
- Koenig, M. A. & Woodward, A. L. (2010) Sensitivity of 24-month-olds to the prior inaccuracy of the source: Possible mechanisms. *Developmental Psychology* 46(4):815–26. [SS]
- Kohler, H.-P., Rogers, J. L. & Christensen, K. (1999) Is fertility behavior in our genes? Findings from a Danish twin study. *Population and Development Review* 25:253–88. [aPR]
- Kosfeld, M., Heinrichs, M., Zak, P. J., Fischbacher, U. & Fehr, E. (2005) Oxytocin increases trust in humans. *Nature* 435:673–76. [JSC]
- Koster, J. M. (2009) Hunting dogs in the lowland Neotropics. *Journal of Anthropological Research* 65:575–610. [HH]
- Kovarik, J. (2009) Giving it now or later: Altruism and discounting. *Economics Letters* 102(3):152–54. [DA]
- Kramer, K. L. (2010) Cooperative breeding and its significance to the demographic success of humans. *Annual Review of Anthropology* 39:417–36. [JMB]
- Krasnow, M. M., Cosmides, L., Pedersen, E. J. & Tooby, J. (2012) What are punishment and reputation for? *PLoS ONE* 7(9):e45662. doi: 10.1371/journal.pone.0045662. [aPR, MMK, JT]
- Kraybill, D. B. & Bowman, C. F. (2001) *On the backroad to heaven: Old Order Hutterites, Mennonites, Amish, and Brethren*. Johns Hopkins University Press. [aPR]
- Krebs, J. R. & Davies, N. B. (1993) *An introduction to behavioural ecology*, 3rd edition. Blackwell. [MMK]
- Kuběna, A. A., Houdek, P., Lindová, J., Příplatová, L. & Flegr, J. (2014) Justine effect: Punishment of the unduly self-sacrificing cooperative individuals. *PLoS One* 9(3):e92336. doi: 10.1371/journal.pone.0092336. [PH]
- Kurzban, R. & Houser, D. (2005) Experiments investigating cooperative types in humans: A complement to evolutionary theory and simulations. *Proceedings of the National Academy of Sciences USA* 102(5):1803–1807. doi: 10.1073/pnas.0408759102. [aPR]
- Labov, W. (2001) *Principles of linguistic change: Social factors*, vol. 29. Blackwell. [aPR]
- Lachmann, M., Szamado, S. & Bergstrom, C. T. (2001) Cost and conflict in animal signals and human language. *Proceedings of the National Academy of Sciences USA* 98(23):13189–94. [aPR]
- Lakatos, I. (1978) *The methodology of scientific research programmes*. Cambridge University Press. [PT]
- Laland, K. N., Odling-Smee, J. & Myles, S. (2010) How culture shaped the human genome: Bringing genetics and the human sciences together. *Nature Reviews Genetics* 11(2):137–48. [aPR]
- Laland, K. N., Sterelny, K., Odling-Smee, J., Hoppitt, W. & Uller, T. (2011) Cause and effect in biology revisited: Is Mayr's proximate-ultimate dichotomy still useful? *Science* 334(6062):1512–16. doi: 10.1126/science.1210879. [aPR]
- Laland, K. N., Tobias, U., Feldman, M., Sterelny, K., Müller, G., Moczek, A., Jablonka, E. & Odling-Smee, J. (2014) Does evolutionary theory need a rethink? Yes, urgently. *Nature* 514:161–64. [AF]
- Laland, K. N., Uller, T., Feldman, M. W., Sterelny, K., Müller, G. B., Moczek, A., Jablonka, E. & Odling-Smee, J. (2015) The extended evolutionary synthesis: Its structure, assumptions and predictions *Proceedings of the Royal Society of London B* 282(1813):20151019. <http://dx.doi.org/10.1098/rspb.2015.1019>. [AF]
- Lamba, S. (2014) Social learning in cooperative dilemmas. *Proceedings of the Royal Society of London B: Biological Sciences* 281(1787):e20140417. (Published Online May 28, 2014). Available at: <http://dx.doi.org/10.1098/rspb.2014.0417>. [SL, rPR]
- Lamba, S. & Mace, R. (2011) Demography and ecology drive variation in cooperation across human populations. *Proceedings of the National Academy of Sciences USA* 108(35):14426–30. doi: 10.1073/pnas.1105186108. [JH, SL, RM, rPR]
- Lamba, S. & Mace, R. (2012) Reply to Henrich et al.: Behavioral variation needs to be quantified at multiple levels. *Proceedings of the National Academy of Sciences USA* 109(2):e34. doi: 10.1073/pnas.1118858109. Available at: <http://www.pnas.org/content/109/2/E34.full>. [SL, RM]
- Lamba, S. & Mace, R. (2013) The evolution of fairness: Explaining variation in bargaining behaviour. *Proceedings of the Royal Society B: Biological Sciences* 280(1750):e201220128. (Published Online November 21, 2012). doi: 10.1098/rspb.2012.2028. Available at: <http://rspb.royalsocietypublishing.org/content/280/1750/20122028>. [SL]
- Lane, A., Luminet, O., Rimé, B., Cross, J. J., de Timary, P. & Mikolajczak, M. (2013) Oxytocin increases willingness to socially share one's emotions. *International Journal of Psychology* 48(4):676–81. [JSC]
- Lane, D., Maxfield, R. M., Read, D. & van der Leeuw, S. (2009) From population to organization thinking. In: *Complexity perspective in innovation and social change*, ed. D. Lane, D. Pumain, S. E. van der Leeuw & G. West, pp. 11–42. Springer. [DR]
- Lao, O., Lu, T. T., Nothnagel, M., Junge, O., Freitag-Wolf, S., Caliebe, A., Balasakava, M., Bertranpetit, J., Bindoff, L. A., Comas, D., Hohlfund, G., Kouvatzi, A., Macek, M., Mollet, I., Parson, W., Palo, J., Ploski, R., Sajantila, A., Tagliabracchi, A., Gether, U., Werge, T., Rivadeneira, F., Hofman, A., Uitterlinden, A. G., Gieger, C., Wichmann, H. E., Rütter, A., Schreiber, S., Becker, C., Nürnberg, P., Nelson, M. R., Krawczak, M. & Kayser, M. (2008) Correlation between genetic and geographic structure in Europe. *Current Biology* 18(16):1241–48. doi: 10.1016/j.cub.2008.07.049. [RMR]
- Leaf, M. & Read, D. (2012) *Human thought and social organization: Anthropology on a new plane*. Lexington Press. [DR]
- Lee, R. B. (1972) !Kung spatial organization: An ecological and historical perspective. *Human Ecology* 1(2):125–47. doi: 10.2307/4602251. [aPR]
- Lehmann, L., Feldman, M. W. & Foster, K. (2008) Cultural transmission can inhibit the evolution of altruistic helping. *The American Naturalist* 172:12–24. [aPR]
- Levieil, D. P. & Orlove, B. (1990) Local control of aquatic resources: Community and ecology in Lake Titicaca, Peru. *American Anthropologist* 92(2):362–82. doi: 10.2307/680150. [rPR]
- Levy, G. D., Taylor, M. G. & Gelman, S. A. (1995) Traditional and evaluative aspects of flexibility in gender roles, social conventions, moral rules, and physical laws. *Child Development* 66(2):515–31. [aPR]
- Li, H. & Durbin, R. (2011) Inference of human population history from individual whole-genome sequences. *Nature* 475(7357):493–96. doi: 10.1038/nature10231. Available at: <http://www.nature.com/nature/journal/v475/n7357/full/nature10231.html>. [rPR]
- List, J. (2007) On the interpretation of giving in dictator games. *Journal of Political Economy* 115(3):482–93. [JT, rPR]
- Llewellyn, K. N. & Hoebel, E. A. (1941) *The Cheyenne way: Conflict and case law in primitive jurisprudence*. University of Oklahoma Press. [MS]
- Lonsdorf, E. (2006) What is the role of mothers in the acquisition of termite-fishing behaviors in wild chimpanzees (*Pan troglodytes schweinfurthii*)? *Animal Cognition* 9(1):36–46. [JMB]
- Lotz, S. (2014) Spontaneous giving under structural inequality: Intuition promotes cooperation in asymmetric social dilemmas. Available at: Social Science Research Network (SSRN): <http://ssrn.com/abstract=2513498>. [DA]
- Lyon, B. E. & Montgomerie, R. (2012) Sexual selection is a form of social selection. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences* 367(1600):2266–73. doi: 10.1098/rstb.2012.0012. [RMN]
- Macdonald, C. & Leary, M. R. (2005) Why does social exclusion hurt? The relationship between social and physical pain. *Psychological Bulletin* 131(2):202–23. doi:10.1037/0033-2909.131.2.202. [JMV]
- Mace, R. & Jordan, F. M. (2011) Macro-evolutionary studies of cultural diversity: A review of empirical studies of cultural transmission and cultural adaptation. *Philosophical Transactions of the Royal Society B: Biological Sciences* 366(1563):402–11. [aPR]
- MacKinnon, K. C. & Fuentes, A. (2011) Primates, niche construction, and social complexity: The roles of social cooperation and altruism. In: *Origins of altruism and cooperation. Developments in primatology: Progress and prospects, vol. 36, Part 2*, ed. R. W. Sussman & R. C. Cloninger, pp. 121–43. Springer. [AF]
- Madsen, V. (1967) Religious syncretism. In: *Handbook of Middle American Indians, vol. 6*, ed. R. W. Wauchope, pp. 369–91. University of Texas Press. [CSA]
- Malinowski, B. (1926) *Crime and custom in savage society*. Harcourt, Brace. [MS]
- Malone, N. M., Fuentes, A. & White, F. J. (2012) Variation in the social systems of extant hominoids: Comparative insight into the social behaviour of early hominins. *International Journal of Primatology* 33(6):1251–77. doi: 10.1007/s10764-012-9617-0. [AF]
- Mania, D. & Mania, U. (1988) Deliberate engravings on bone artefacts of *Homo erectus*. *Rock Art Research* 5:91–107. [AF]
- Marean, C. W. (2010) Pinnacle Point Cave 13B (Western Cape Province, South Africa) in context: The Cape Floral Kingdom, shellfish, and modern human origins. *Journal of Human Evolution* 59(3–4):425–43. doi: 10.1016/j.jhevol.2010.07.011. [aPR]
- Markus, H. R. & Kitayama, S. (1991) Culture and the self: Implications for cognition, emotion, and motivation. *Psychological Review* 98:224–53. [PB]
- Marshall, J. A. R. (2011) Group selection and kin selection: Formally equivalent approaches. *Trends in Ecology and Evolution* 26:325–32. doi:10.1016/j.tree.2011.04.008. [PB]
- Martynova, M. & Renneboog, L. (2008) A century of corporate takeovers: What have we learned and where do we stand? *Journal of Banking and Finance* 32:2148–77. [CKWDD]
- Mäs, M. & Dijkstra, J. (2014) Do intergroup conflicts necessarily result from out-group hate? *PLoS One* 9(6):e97848. [CA-C]
- Mathew, S. & Boyd, R. (2011) Punishment sustains large-scale cooperation in pre-state warfare. *Proceedings of the National Academy of Sciences USA* 108(28):11375–80. doi: 10.1073/pnas.1105604108. [aPR]

- Mathew, S., Boyd, R. & Van Veelen, M. (2013) Human cooperation among kin and close associates may require enforcement of norms by third parties. In: *Cultural evolution*, ed. P. J. Richerson & M. Christiansen, pp. 45–60. MIT Press. [aPR, JH]
- Maynard Smith, J. & Szathmáry, E. (1995) *The major transitions in evolution*. W. H. Freeman/Spectrum. [aPR, PT]
- McCullough, M. E., Pedersen, E. J., Schroder, J. M., Tabak, B. A. & Carver, C. S. (2013) Harsh childhood environmental characteristics predict exploitation and retaliation in humans. *Proceedings of the Royal Society B: Biological Sciences* 280(1750): 20122104. doi: 10.1098/rspb.2012.2104. [JH]
- McDowell, A. (2004) Real property, spontaneous order, and norms in the gold mines. *Law and Social Inquiry* 29(4):771–818. Available at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1747-4469.2004.tb01076.x/abstract>. [MS]
- McElreath, R. (2004) Social learning and the maintenance of cultural variation: An evolutionary model and data from East Africa. *American Anthropologist* 106(2):308–21. doi: 10.1525/aa.2004.106.2.308. [JH]
- McElreath, R., Bell, A. V., Efferson, C., Lubell, M., Richerson, P. J. & Waring, T. (2008) Beyond existence and aiming outside the laboratory: Estimating frequency-dependent and pay-off-biased social learning strategies. *Philosophical Transactions of the Royal Society B* 363:3515–28. [rPR]
- McElreath, R., Boyd, R. & Richerson, P. (2003) Shared norms can lead to the evolution of ethnic markers. *Current Anthropology* 44(1):123–29. [aPR]
- McGovern, T. (2007) Why do successful companies fail? A case study of the decline of Dunlop. *Business History* 49:886–907. doi: 10.1080/00076790701710407. [aPR]
- McKay, R. T., Efferson, C., Whitehouse, H. & Fehr, E. (2011) Wrath of God: Religious primes and punishment. *Proceedings of the Royal Society B* 278(1713):1858–63. (Epub November 24, 2010). doi: 10.1098/rspb.2010.2125. [aPR]
- McNeill, W. H. (1995) *Keeping together in time: Dance and drill in human history*. Harvard University Press. [aPR]
- Meins, E., Fernyhough, C., Wainwright, R., Das Gupta, M., Fradley, E. & Tuckey, M. (2002) Maternal mind-mindedness and attachment security as predictors of theory of mind understanding. *Child Development* 73(6):1715–26. [JSC]
- Mercier, H. & Sperber, D. (2011) Why do humans reason? Arguments for an argumentative theory. *Behavioral and Brain Sciences* 34(2):57–74. [SS]
- Moffett, M. W. (2013) Human identity and the evolution of societies. *Human Nature* 24(3):219–67. doi: 10.1007/s12110-013-9170-3. [aPR]
- Molleman, L., van den Berg, P. & Weissing, F. J. (2014) Consistent individual differences in human social learning strategies. *Nature Communications* 5:1–9. Article No. 3570. doi: 10.1038/ncomms4570. (Online publication) Available at: <http://www.nature.com/ncomms/2014/140404/ncomms4570/full/ncomms4570.html>. [aPR]
- Morin, O. (2014) Is cooperation a maladaptive by-product of social learning? The docility hypothesis reconsidered. *Biological Theory* 9(3):286–95. [OM]
- Motta, M. (2004) *Competition policy: Theory and practice*. Cambridge University Press. [aPR]
- Mrazek, A. J., Chiao, J. Y., Blizinsky, K. D., Lum, J. & Gelfand, M. J. (2013) The role of culture–gene coevolution in morality judgment: Examining the interplay between tightness–looseness and allelic variation of the serotonin transporter gene. *Culture and Brain* 1(2–4):100–117. [MJG]
- Mu, Y., Kitayama, S., Han, S., & Gelfand, M. J. (2015) How culture gets embrained: Cultural differences in event-related potentials of social norm violations. *Proceedings of the National Academy of Sciences USA* 112(50):15348–53. doi: 10.1073/pnas.1509839112. [MJG, rPR]
- Müller, M. (1862) *Lectures on the science of language*, 3rd edition. Longman, Green, Longman and Roberts. [aPR]
- Murmann, J. P. (2003) *Knowledge and competitive advantage: The coevolution of firms, technology, and National institutions*. Cambridge University Press. [aPR]
- Murphy, R. F. & Murphy, Y. (1986) Northern Shoshone and Bannock. In: *Handbook of North American Indians: Great Basin, vol. 11*, ed. W. L. d’Azavedo, pp. 284–307. Smithsonian Institution Press. [aPR]
- Nader, L. (1969) *Law in culture and society*. Aldine. [aPR]
- Nelson, E. E. & Panksepp, J. (1998) Brain substrates of infant–mother attachment: Contributions of opioids, oxytocin, and norepinephrine. *Neuroscience and Biobehavioral Reviews* 22(3):437–52. [JSC]
- Nelson, R. R. & Winter, S. G. (1982) *An evolutionary theory of economic change*. Belknap Press of Harvard University Press. [aPR]
- Nesse, R. M. (2009) Runaway social selection for displays of partner value and altruism. In: *The moral brain: Essays on the evolutionary and neuroscientific aspects of morality*, ed. J. Verplaetse, J. De Schrijver, S. Vanneste & J. Braeckman, pp. 211–32. Springer-Verlag. [RMN]
- Nesse, R. M. (2010) Social selection and the origins of culture. In: *Evolution, culture, and the human mind*, ed. M. Schaller, S. J. Heine, A. Norenzayan, T. Yamagishi & T. Kameda, pp. 137–50. Psychology Press. [RMN]
- Nettle, D. (1999) *Linguistic diversity*. Oxford University Press. [aPR]
- Nettle, D., Colléony, A. & Cockerill, M. (2011) Variation in cooperative behaviour within a single city. *PLoS One* 6(10):e26922. [SL, RM]
- Newmeyer, F. J. (2004) Against a parameter-setting approach to typological variation. *Linguistic Variation Yearbook* 4(1):181–34. doi: 10.1075/livy.4.06new. [aPR]
- Newson, L. (2013) Cultural evolution and human reproductive behavior. In: *Building babies: Primate development in proximate and ultimate perspective*, ed. K. B. H. Clancy, K. Hinde & J. N. Rutherford, pp. 481–503. Springer Science. [aPR]
- Nisbett, R. E. & Cohen, D. (1996) *Culture of Honor: The psychology of violence in the South*. Westview Press. [rPR, PB]
- Nivette, A. E. (2011) Cross-national predictors of crime: A meta-analysis. *Homicide Studies* 15(2):103–31. doi: 10.1177/1088767911406397. [aPR]
- Noë, R., van Hooff, J. A. R. A. M. & Hammerstein, P. (2001) *Economics in nature: Social dilemmas, mate choice and biological markets*. Cambridge University Press. [RMN]
- Norenzayan, A. & Shariff, A. F. (2008) The origin and evolution of religious prosociality. *Science* 322(5898):58–62. doi: 10.1126/science.1158757 [aPR]
- Norenzayan, A., Shariff, A. F., Gervais, W. M., Willard, A. K., McNamara, R. A., Slingerland, E. & Henrich, J. (2016) The cultural evolution of prosocial religions. *Behavioral and Brain Sciences* 39. doi: 10.1017/S0140525X14001356. [PH, MS]
- North, D. C., Wallis, J. J. & Weingast, B. R. (2009) *Violence and social orders: A conceptual framework for interpreting recorded human history*. Cambridge University Press. [aPR]
- Novembre, J., Johnson, T., Bryc, K., Kutalik, Z., Boyko, A. R., Auton, A., Indap, A., King, K. S., Bergmann, S., Nelson, M. R., Stephens, M. & Bustamante, C. D. (2008) Genes mirror geography within Europe. *Nature* 456(7218):98–101. doi: 10.1038/nature07331. [RMR]
- Okasha, S. (2015) The relation between kin and multi-level selection: An approach using causal graphs. *British Journal for the Philosophy of Science*. doi: 10.1093/bjps/axu047. [PB]
- Okasha, S. & Paternotte, C. (2012) Group adaptation, formal Darwinism and contextual analysis. *Journal of Evolutionary Biology* 25:1127–39. [PB]
- Olsson, O. & Paik, C. (2013) A western reversal since the Neolithic? The long-run impact of early agriculture. University of Gothenburg Working Papers in Economics. [PH]
- Ostrom, E. (1990) *Governing the Commons: The evolution of institutions for collective action*. Cambridge University Press. [aPR, MS]
- Ostrom, E. (2005) *Understanding institutional diversity*. Princeton University Press. [aPR]
- Paciotti, B., Hadley, C., Holmes, C. & Borgerhoff Mulder, M. (2005) Grass-roots justice in Tanzania. *American Scientist* 93:58–65. [aPR]
- Panchanathan, K. & Boyd, R. (2004) Indirect reciprocity can stabilize cooperation without the second-order free rider problem. *Nature* 432:499–502. [aPR, JH]
- Panksepp, J. (1998) *Affective neuroscience: The foundations of human and animal emotions*. Oxford university press. [JMV]
- Panksepp, J. (2011) The basic emotional circuits of mammalian brains: Do animals have affective lives? *Neuroscience and Biobehavioral Reviews* 35:1791–804. [JSC]
- Panksepp, J. & Biven, L. (2012) *The archaeology of mind: Neuroevolutionary origins of human emotions*. W. W. Norton. [rPR]
- Pedersen, E. J., Kurzban, R. & McCullough, M. E. (2013) Do humans really punish altruistically? A closer look. *Proceedings of the Royal Society B: Biological Sciences* 280(1758):e20122723. doi: 10.1098/rspb.2012.2723. Online paper available at: <http://rspb.royalsocietypublishing.org/content/280/1758/20122723>. [JT]
- Peer, P., Van, Rots, V. & Vroomans, J. (2004) A story of colourful diggers and grinders: The Sangoan and Lupemban at site 8-B-11, Sai Island, Northern Sudan. *Before Farming* 3:1–28. [AF]
- Perreault, C. (2012) The pace of cultural evolution. *PLoS ONE* 7(9):e45150. doi: 10.1371/journal.pone.0045150. [aPR]
- Petersen, M. B., Szyzycer, D., Cosmides, L. & Tooby, J. (2012) Who deserves help? Evolutionary psychology, social emotions, and public opinion about welfare. *Political Psychology* 33(3):395–18. [JT]
- Petersen, M. B., Szyzycer, D., Sell, A., Cosmides, L. & Tooby, J. (2013) The ancestral logic of politics: Upper-body strength regulates men’s assertion of self-interest over economic redistribution. *Psychological Science* 24(7):1098–103. [JT]
- Peysakhovich, A. & Rand, D. G. (2015) Habits of virtue: Creating norms of cooperation and defection in the laboratory. *Management Science*. doi: 10.1287/mnsc.2015.2168 [DA]
- Pickrell, J. K. & Reich, D. (2014) Toward a new history and geography of human genes informed by ancient DNA. *Trends in Genetics* 30(9):377–89. Available at: <http://dx.doi.org/10.1016/j.tig.2014.07.007>. [rPR]
- Pinker, S. (1994) *The language instinct: How the mind creates language*. Morrow. [aPR]
- Pinker, S. (2010) The cognitive niche: Coevolution of intelligence, sociality, and language. *Proceedings of the National Academy of Sciences USA* 107(Suppl. 2):8993–99. doi: 10.1073/pnas.0914630107. [aPR, JT]
- Pinker, S. (2012) The false allure of group selection. An *Edge* original essay. Available at: <http://edge.org/conversation/the-false-allure-of-group-selection>. [aPR, MMK, JH]

- Pinker, S. & Bloom, P. (1990) Natural language and natural selection. *Behavioral and Brain Sciences* 13:707–84. [aPR]
- Preston, S. D. & De Waal, F. (2002) Empathy: Its ultimate and proximate bases. *Behavioral and Brain Sciences* 25(1):1–20. [HH]
- Price, G. R. (1970) Selection and covariance. *Nature* 227:520–21. [rPR]
- Price, G. R. (1972) Extensions of covariance selection mathematics. *Annals of Human Genetics* 35:485–90. [rPR, PB]
- Prietula, M. & Conway, D. (2009) The evolution of metanorms: Quis custodiet ipsos custodes? *Computational and Mathematical Organization Theory* 15(3):147–68. doi: 10.1007/s10588-009-9056-4. [PH]
- Pritchard, J. K., Pickrell, J. K. & Coop, G. (2010) The genetics of human adaptation: Hard sweeps, soft sweeps, and polygenic adaptation. *Current Biology* 20(4):R208–R215. doi: 10.1016/j.cub.2009.11.055. [aPR]
- Pruitt, D. G. & Rubin, J. Z. (1986) *Social conflict: Escalation, stalemate, and settlement*. McGraw Hill. [CKWDD]
- Putnam, R. (1993) *Making democracy work*. Princeton University Press. [CA-C]
- Queller, D. C. (1992) Quantitative genetics, inclusive fitness, and group selection. *American Naturalist* 139:540–58. [PB]
- Rachlin, H. (2002) Altruism and selfishness. *Behavioral and Brain Sciences* 25:239–96. [CSI]
- Rachlin, H. (2004) *The science of self-control*. Harvard University Press. [CSI]
- Rand, D. G., Greene, J. D. & Nowak, M. A. (2012) Spontaneous giving and calculated greed. *Nature* 489(7416):427–30. [DA]
- Rand, D. G. & Kraft-Todd, G. T. (2014) Reflection does not undermine self-interested prosociality. *Frontiers in Behavioral Neuroscience* 8:300. [DA]
- Rand, D. G., Newman, G. E. & Wurzbacher, O. (2014a) Social context and the dynamics of cooperative choice. *Journal of Behavioral Decision Making*. doi: 10.1002/bdm.1837. [DA]
- Rand, D. G. & Nowak, M. A. (2013) Human cooperation. *Trends in Cognitive Sciences* 17(8):413–25. [DA]
- Rand, D. G., Pysakhovich, A., Kraft-Todd, G. T., Newman, G. E., Wurzbacher, O., Nowak, M. A. & Green, J. D. (2014b) Social heuristics shape intuitive cooperation. *Nature Communications* 5:3677. [DA]
- Rapaport, L. G. (2011) Progressive parenting behavior in wild golden lion tamarins. *Behavioral Ecology* 22(4):745–54. [JMB]
- Rappaport, R. (1999) *Ritual and religion in the making of humanity*. Cambridge University Press. [aPR]
- Read, D. (1984) An algebraic account of the American kinship terminology. *Current Anthropology* 25:417–40. [DR]
- Read, D. (2005) Some observations on resilience and robustness in human systems. *Cybernetics and Systems* (Special Issue) 36:773–802. [DR]
- Read, D. (2012) *How culture makes us human*. [Big Ideas in Little Books series]. Left Coast Press. [DR]
- Read, D. (2013) Reconstructing the Proto-Polynesian terminology: Kinship terminologies as evolving logical structures. In: *Kinship systems: Change and reconstruction*, ed. P. McConville, I. Keen & R. Hendery, pp. 59–91. University of Utah Press. [DR]
- Read, D., Fischer, M. D. & Chit Hlaing, F. K. L. (2014) The cultural grounding of kinship: A paradigm shift. *L'Homme* 210(2):63–89. [DR]
- Reeve, H. K. (1992) Queen activation of lazy workers in colonies of the eusocial naked mole-rat. *Nature* 358:147–49. [MS]
- Reifen Tagar, M., Federico, C. M., Lyons, K. E., Ludeke, S. & Koenig, M. A. (2014) Herd the authoritarian? Orientation toward authority in early childhood. *Psychological Science* 25(4):883–92. [SS]
- Reiter, D. & Stam, A. C. (2002) *Democracies at war*. Princeton University Press. [aPR]
- Relethford, J. H. (2007) *The human species: An introduction to biological anthropology*. McGraw-Hill. [HG]
- Richerson, P. J. & Boyd, R. (1998) The evolution of human ultrasociality. In: *Indoctrinability, ideology, and warfare: Evolutionary perspectives*, ed. I. Eibl-Eibesfeldt & F. K. Salter, pp. 71–95. Berghahn Books. [aPR]
- Richerson, P. J. & Boyd, R. (1999) Complex societies: The evolutionary origins of a crude superorganism. *Human Nature* 10(3):253–89. [aPR, JH]
- Richerson, P. J. & Boyd, R. (2005) *Not by genes alone: How culture transformed human evolution*. University of Chicago Press. [PB]
- Richerson, P. J. & Boyd, R. (2010) The Darwinian theory of cultural evolution and gene-culture coevolution. In: *Evolution since Darwin: The first 150 years*, ed. M. A. Bell, D. J. Futuyma, W. F. Eanes & J. S. Levinton, pp. 561–88. Sinauer. [aPR]
- Richerson, P. J., Boyd, R. & Henrich, J. (2010) Gene-culture coevolution in the age of genomics. *Proceedings of the National Academy of Sciences USA* 107(Suppl. 2):8985–92. [arPR]
- Roach, N. T., Venkadesan, M., Rainbow, M. J. & Lieberman, D. E. (2013) Elastic energy storage in the shoulder and the evolution of high-speed throwing in *Homo*. *Nature* 498(7455):483–86. [HG]
- Roberts, S. G. B., Dunbar, R. I. M., Pollet, T. V. & Kuppens, T. (2009) Exploring variation in active network size: Constraints and ego characteristics. *Social Networks* 31:138–46. [CA-C]
- Roch, S. G., Lane, J. A. S., Samuelson, C. D., Allison, S. T. & Dent, J. L. (2000) Cognitive load and the equality heuristic: A two-stage model of resource over-consumption in small groups. *Organizational Behavior and Human Decision Processes* 83(2):185–212. doi: 10.1006/obhd.2000.2915. [DA]
- Rockenbach, B. & Milinski, M. (2006) The efficient interaction of indirect reciprocity and costly punishment. *Nature* 444(7120):718–23. [DA]
- Roebroeks, W., Sier, M. J., Nielsen, T. K., De Loecker, D., Parés, J. M., Arps, C. E. S. & Múcher, H. J. (2012) Use of red ochre by early Neanderthals. *Proceedings of the National Academy of Sciences USA* 109(6):1889–94. [AF]
- Rogers, A. R. (1990) Group selection by selective emigration. *The American Naturalist* 135(3):398–13. [rPR]
- Rogers, E. M. & Shoemaker, F. F. (1971) *Communication of innovations: A cross-cultural approach*, 2nd edition. Free Press. [aPR]
- Roos, P., Gelfand, M., Nau, D. & Carr, R. (2014) High strength-of-ties and low mobility enable the evolution of third-party punishment. *Proceedings of the Royal Society B: Biological Sciences* 281(1776): Article no. 2661. doi: 10.1098/rspb.2013.2661. [MJG]
- Roos, P., Gelfand, M. J., Nau, D. & Lun, J. (2015) Societal threat and cultural variation in the strength of social norms: An evolutionary basis. *Organizational Behavior and Human Decision Processes* 129:14–23. [MJG]
- Ross, C. T. & Richerson, P. J. (2014) New frontiers in the study of cultural and genetic evolution. *Current Opinion in Genetics and Development* 29:103–109. [aPR]
- Ross, R. M., Greenhill, S. J. & Atkinson, Q. D. (2013) Population structure and cultural geography of a folktale in Europe. *Proceedings of the Royal Society B: Biological Sciences* 280(1756):20123065. doi: 10.1098/rspb.2012.3065. [RMR]
- Roy, S., Miller, C. T., Gottsch, D. & Wang, X. (2011) Vocal control by the common marmoset in the presence of interfering noise. *The Journal of Experimental Biology* 214(21):3619–29. [JMB]
- Rukstalis, M., Fite, J. E. & French, J. A. (2003) Social change affects vocal structure in a callitrichid primate (*Callithrix kuhlii*). *Ethology* 109:327–40. [JMB]
- Runciman, W. G. (2005) Stone Age sociology. *Journal of the Royal Anthropological Institute* 11(1):129–42. doi: 10.1111/j.1467-9655.2005.00229.x. [aPR]
- Rushton, J. P. (1989) Genetic similarity, human altruism, and group selection. *Behavioral and Brain Sciences* 12(3):503–18. doi:10.1017/S0140525X00057320. [aPR]
- Sabbagh, M. A. & Shafman, D. (2009) How children block learning from ignorant speakers. *Cognition* 112:415–22. [SS]
- Salali, G. D., Juda, M. & Henrich, J. (2015) Transmission and development of costly punishment in children. *Evolution and Human Behavior* 36(2):86–94. doi: 10.1016/j.evolhumbehav.2014.09.004. [JH]
- Sampson, G. (2005) *The “Language instinct” debate*, revised edition. Continuum. [aPR]
- Sato, T., Nonaka, K., Miura, T. & Peter, K. (1994) Trends in cohort fertility of the Dariusleut Hutterite population. *Human Biology* 66(3):421–32. [aPR]
- Schapera, I. (1970) *Tribal innovators: Tswana chiefs and social change, 1795–1940*. The Athlone Press. [MS]
- Schelling, T. (1960) *The strategy of conflict*. Harvard University Press. [CKWDD]
- Schore, A. (2013) Bowlby’s “environment of evolutionary adaptedness”: Recent studies on the interpersonal neurobiology of attachment and emotional development. In: *Evolution, early experience and human development*, ed. D. Narvaez, J. Panksepp, A. Schore & T. Gleason, pp. 31–67. Oxford University Press. [JSC]
- Schulz, J. F., Fischbacher, U., Thöni, C. & Utikal, V. (2014) Affect and fairness: Dictator games under cognitive load. *Journal of Economic Psychology* 41:77–87. doi: <http://dx.doi.org/10.1016/j.joep.2012.08.007>. [DA]
- Schumpeter, J. A., Opie, R. & Elliott, J. E. (1934) *The theory of economic development: An inquiry into profits, capital, credit, interest, and the business cycle*. Harvard University Press. [aPR]
- Scotfield, J., Gilpin, A. T., Pierucci, J. & Morgan, R. (2013) Matters of accuracy and conventionality: Prior accuracy guides children’s evaluations of others’ actions. *Developmental psychology* 49(3):432. [SS]
- Scott, W. R. (2001) *Institutions and organizations: Ideas and interests*, 2nd edition. Sage. [aPR]
- Sell, A., Tooby, J. & Cosmides, L. (2009) Formidability and the logic of human anger. *Proceedings of the National Academy of Sciences USA* 106:15073–78. doi:10.1073/pnas.0904312106. [MMK]
- Seston, R. & Kelemen, D. (2014) Children’s conformity when acquiring novel conventions: The case of artifacts. *Journal of Cognition and Development* 15(4):569–83. [SS]
- Shalvi, S. & De Dreu, C. K. W. (2014) Oxytocin promotes group serving dishonesty. *Proceedings of the National Academy of Sciences USA* 111:5503–507. [CKWDD]
- Shariff, A. F., Norenzayan, A. & Henrich, J. (2009) The birth of high gods: How the cultural evolution of supernatural policing influenced the emergence of complex, cooperative human societies, paving the way for civilization. In: *Evolution, culture, and the human brain*, ed. M. Schaller, A. Norenzayan, S. J. Heine, T. Yamagishi & T. Kameda, pp. 119–36. Taylor and Francis. [aPR]

- Shennan, S. (2001) Demography and cultural innovation: A model and its implications for the emergence of human culture. *Cambridge Archaeological Journal* 11(1):5–16. [aPR]
- Shennan, S. J., Crema, E. R. & Kerig, T. (2015) Isolation-by-distance, homophily, and “core” vs. “package” cultural evolution models in Neolithic Europe. *Evolution and Human Behavior* 36(2):103–19. doi: 10.1016/j.evolhumbehav.2014.09.006. [RMR]
- Sheskin, M., Wynn, K. & Bloom, P. (2014) Anti-equality: Social comparison in young children. *Cognition* 130(2):152–56. [JT, rPR]
- Shtulman, A. & Carey, S. (2007) Improbable or impossible? How children reason about the possibility of extraordinary events. *Child Development* 78(3):1015–32. [SS]
- Shutts, K., Kinzler, K. D., McKee, C. B. & Spelke, E. S. (2009) Social information guides infants’ selection of foods. *Journal of Cognition and Development* 10(1–2):1–17. [aPR]
- Sigmund, K. (2007) Punish or perish? Retaliation and collaboration among humans. *Trends in Ecology and Evolution* 22(11):593–600. Available at: <http://dx.doi.org/10.1016/j.tree.2007.06.012> [aPR]
- Silva, A. S. & Mace, R. (2014) Cooperation and conflict: Field experiments in Northern Ireland. *Proceedings of the Royal Society B: Biological Sciences* 281(1792). (Published Online August 20, 2014). doi: 10.1098/rspb.2014.1435. Available at: <http://rspb.royalsocietypublishing.org/content/281/1792/20141435> [RM, rPR]
- Silva, A. S. & Mace, R. (2015) Inter-group conflict and cooperation: Field experiments before, during and after sectarian riots in Northern Ireland. *Frontiers in Psychology* 6(1790). (Published Online November 6, 2015). doi: 10.3389/fpsyg.2015.01790. Available at: <http://journal.frontiersin.org/article/10.3389/fpsyg.2015.01790>. [RM]
- Simmons, M. (1979) History of Pueblo-Spanish relations to 1821. In: *Handbook of North American Indians. Vol. 9: Southwest*, ed. A. Ortiz, pp. 178–205. Smithsonian Institution. [rPR]
- Simon, H. A. (1990) A mechanism for social selection and successful altruism. *Science* 250(4988):1665–68. [aPR]
- Singh, M. & Boomsma, J. J. (2015) Policing and punishment across the domains of social evolution. *Oikos* 124(8): 971–82. doi:10.1111/oik.02064. [MS]
- Smaldino, P. E. (2014) The cultural evolution of emergent group-level traits. *Behavioral and Brain Sciences* 37(3):243–95. doi: 10.1017/S0140525X13001544. [rPR, DR, RMR]
- Smaldino, P. E., Schank, J. C. & McElreath, R. (2013) Increased costs of cooperation help cooperators in the long run. *The American Naturalist* 4:451–63. [rPR]
- Smith, E. A. (2010) Communication and collective action: Language and the evolution of human cooperation. *Evolution and Human Behavior* 31(4):231–45. doi: 10.1016/j.evolhumbehav.2010.03.001. [aPR]
- Snowdon, C. T. (2001) Social processes in communication and cognition in callitrichid monkeys: A review. *Animal Cognition* 4:247–57. [JMB]
- Snowdon, C. T. (2013) Language parallels in New World primates. In: *Animal models of speech and language disorders*, ed. S. H. Helekar, pp. 241–61. Springer. [JMB]
- Sobel, D. M. & Kushnir, T. (2013) Knowledge matters: How children evaluate the reliability of testimony as a process of rational inference. *Psychological Review* 120(4):779–97. [SS]
- Sobel, D. M. & Macris, D. M. (2013) Children’s understanding of speaker reliability between lexical and syntactic knowledge. *Developmental Psychology* 49(3):523–32. [SS]
- Sober, E. & Wilson, D. S. (1999) *Unto others: The evolution and psychology of unselfish behavior*. Harvard University Press. [OM]
- Soltis, J., Boyd, R. & Richerson, P. J. (1995) Can group-functional behaviors evolve by cultural group selection? An empirical test. *Current Anthropology* 36(3):473–94. [arPR]
- Sosis, R. & Bressler, E. R. (2003) Cooperation and commune longevity: A test of the costly signaling theory of religion. *Cross-Cultural Research* 37:211–39. [aPR]
- Sosis, R. & Ruffle, B. (2003) Religious ritual and cooperation: Testing for a relationship on Israeli religious and secular Kibbutzim. *Current Anthropology* 44(5):713–22. [aPR]
- Spencer, B. & Gillen, F. J. (1927) *The Arunta: A study of a Stone Age people*. Macmillan. [MS]
- Spolaore, E. & Wacziarg, R. (2013) How deep are the roots of economic development? *Journal of Economic Literature* 51(2):325–69. doi: 10.1257/jel.51.2.325. [PH]
- Stanford, C. B. (1999) *The hunting apes: Meat eating and the origins of human behavior*. Princeton University Press. [aPR]
- Stark, R. (1997) *The rise of Christianity: How the obscure, marginal Jesus movement became the dominant religious force in the western world in a few centuries*. HarperCollins. [aPR]
- Steffens, N. K., Haslam, S. A. & Reicher, S. D. (2014) Up close and personal: Evidence that shared social identity is a basis for the “special” relationship that binds followers to leaders. *The Leadership Quarterly* 25(2):296–13. Available at: <http://dx.doi.org/10.1016/j.leaqua.2013.08.008> [aPR]
- Steinmo, S. (2010) *The evolution of modern states: Sweden, Japan, and the United States*. Cambridge University Press. [rPR]
- Stephens, E. & Koenig, M. (2015) Varieties of testimony: Children’s selective learning in semantic and episodic domains. *Cognition* 137:182–88. [SS]
- Stephens, E., Suárez, S. & Koenig, M.A. (2015) Early testimonial learning: Monitoring speech acts and speakers. *Advances in Child Development and Behavior* 48:151–83. [SS]
- Sterelny, K. (2012) *The evolved apprentice: How evolution made humans unique*. MIT Press. [rPR]
- Sterelny, K. & Hiscock, P. (2014) Symbols, signals, and the archaeological record. *Biological Theory* 9:1–3. [AF]
- Steward, J. H. (1955) *Theory of culture change: The methodology of multilinear evolution*. University of Illinois Press. [aPR]
- Stiller, J. & Dunbar, R. I. M. (2007) Perspective-taking and memory capacity predict social network size. *Social Networks* 29:93–104. [CA-C]
- Stiner, M. C. & Kuhn, S. L. (2009) Paleolithic diet and the division of labor in Mediterranean Eurasia. In: *Evolution of hominin diets: Integrating approaches to the study of Paleolithic subsistence*, ed. J.-J. Hublin & M. P. Richards, pp. 155–67. Springer Science+Business Media. [rPR]
- Stivers, T., Enfield, N. J., Brown, P., Englert, C., Hayashi, M., Heinemann, T., Hoymann, G., Rossario, F., de Ruiter, J. P., Yoon, K.-E. & Levinson, S. C. (2009) Universals and cultural variation in turn-taking in conversation. *Proceedings of the National Academy of Sciences USA* 106(26):10587–92. [JMB]
- Stoekel, L. E., Palley, L. S., Gollub, R. L., Niemi, S. M. & Evins, A. E. (2014) Patterns of brain activation when mothers view their own child and dog: An fMRI study. *PLoS One* 9(10):e107205. [HH]
- Stoll, D. (1990) *Is Latin America turning Protestant? The politics of evangelical growth*. University of California Press. [aPR]
- Stout, D. (2012) Stone toolmaking and the evolution of human culture and cognition. In: *Culture evolves*, ed. A. Whitten, R. A. Hinde, C. B. Stringer & K. N. Laland, pp. 197–14. Oxford University Press. [AF]
- Strathearn, L. (2011) Maternal neglect: Oxytocin, dopamine and the neurobiology of attachment. *Journal of Neuroendocrinology* 23(11):1054–65. [JSC]
- Suddendorf, T. (2013) *The gap: The science of what separates us from other animals*. Basic Books. [JSC]
- Takahashi, D. Y., Narayanan, D. Z. & Ghazanfar, A. A. (2013) Coupled oscillator dynamics of vocal turn-taking in monkeys. *Current Biology* 23(21):2162–68. [JMB]
- Tanaka, Y. (1996) Social selection and the evolution of animal signals. *Evolution* 50:512–23. [RMN]
- Tanis, M. & Postmes, T. (2005) A social identity approach to trust: Interpersonal perception, group membership and trusting behavior. *European Journal of Social Psychology* 35:413–24. [CA-C]
- Taylor, D. J. (2014) Evolution of the social contract. Doctoral dissertation, University of Bath, England. [DR]
- Taylor, K. I. (1981) Knowledge and praxis in Sanumá food prohibitions. In: *Working Papers on South American Indians: Food taboos in Lowland South America*, vol. 3, ed. K. M. Kensinger & W. H. Kracke. Bennington College. [MS]
- Tennie, C., Call, J. & Tomasello, M. (2009) Ratcheting up the ratchet: On the evolution of cumulative culture. *Philosophical Transactions of the Royal Society B: Biological Sciences* 364(1528):2405–15. doi: 10.1098/rstb.2009.0052. [aPR]
- Tilly, C. (1992) *Coercion, capital and European states*: Wiley-Blackwell. [aPR]
- Tishkoff, S. A., Reed, F. A., Ranciaro, A., Voight, B. F., Babbitt, C. C., Silverman, J. S., Powell, K., Mortensen, H., Hirbo, J.B., Osman, M., Ibrahim, M., Omar, S. A., Lema, G., Nyambo, T. B., Giori, J., Bumpstead, S., Pritchard, J. K., Wray, G. A. & Deloukas, P. (2007) Convergent adaptation of human lactase persistence in Africa and Europe. *Nature Genetics* 39(1):31–40. [aPR]
- Tobias, J. A., Montgomerie, R. & Lyon, B. E. (2012) The evolution of female ornaments and weaponry: Social selection, sexual selection and ecological competition. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences* 367(1600):2274–93. doi: 10.1098/rstb.2011.0280. [RMN]
- Tognetti, A., Berticat, C., Raymond, M. & Faurie, C. (2012) Sexual selection of human cooperative behaviour: An experimental study in rural Senegal. *PLoS ONE* 7(9):e44403. [SL]
- Tomasello, M. (1999) *The cultural origins of human cognition*. Harvard University Press. [aPR]
- Tomasello, M. (2007) If they’re so good at grammar, then why don’t they talk? Hints from apes’ and humans’ use of gestures. *Language Learning and Development* 3(2):133–56. [JMB]
- Tomasello, M. (2008) *Origins of human communication*. MIT Press. [HG]
- Tomasello, M. (2014) *A natural history of human thinking*. Harvard University Press. [HG]
- Tomasello, M. & Carpenter, M. (2007) Shared intentionality. *Developmental Science* 10(1):121–25. doi: 10.1111/j.1467-7687.2007.00573.x. [aPR]

- Tomasello, M., Carpenter, M., Call, J., Behne, T. & Moll, H. (2005) Understanding and sharing intentions: The origins of cultural cognition. *Behavioral and Brain Sciences* 28(5):675–91. doi: 10.1017/S0140525X05000129. [aPR, JSC]
- Tomasello, M., Melis, A. P., Tennie, C., Wyman, E. & Herrmann, E. (2012) Two key steps in the evolution of human cooperation: The interdependence hypothesis. *Current Anthropology* 53(6):673–92. doi: 10.1086/668207. [aPR]
- Tooby, J. (2014) What scientific idea is ready for retirement? Learning and culture. *Edge*. (Online publication). Available at: <http://edge.org/responses/what-scientific-idea-is-ready-for-retirement> [aPR]
- Tooby, J. & Cosmides, L. (1989) Evolutionary psychology and the generation of culture, I. Theoretical considerations. *Ethology and Sociobiology* 10(1–3):29–49. [arPR, MMK]
- Tooby, J. & Cosmides, L. (1992) The psychological foundations of culture. In: *The adapted mind: Evolutionary psychology and the generation of culture*, ed. J. Barkow, L. Cosmides & J. Tooby, pp. 19–136. Oxford University Press. [arPR, MMK]
- Tooby, J. & Cosmides, L. (2010) Groups in mind: The coalitional roots of war and morality. In: *Human morality and sociality: Evolutionary and comparative perspectives*, ed. H. Hogh-Olesen, pp. 91–234. Palgrave Macmillan. [JT]
- Tooby, J. & DeVore, I. (1987) The reconstruction of hominid behavioral evolution through strategic modeling. In: *The evolution of human behavior: Primate models*, ed. W. G. Kinzey, pp. 183–237. State University of New York Press. [MMK, JT]
- Tostevin, G. B. (2013) *Seeing lithics: A middle-range theory for testing cultural transmission in the Pleistocene*. Harvard University American School of Prehistoric Research and Oxbow Books. [aPR]
- Trevarthen, C. (2007) The intersubjective psychobiology of human meaning: Learning of culture depends on interest for co-operative practical work – and affection for the joyful art of good company. *Psychoanalytic Dialogues: The International Journal of Relational Perspectives* 19(5):507–18. [JSC]
- Trevarthen, C. (2011) What is it like to be a person who knows nothing? Defining the active intersubjective mind of a newborn human being. *Infant and Child Development* 20(1):119–35. [JSC]
- Tronick, E. Z. (2007) *The neurobehavioral and social-emotional development of infants and children*. W. W. Norton. [JSC]
- Trut, L. (1999) Early canid domestication: The farm-fox experiment. *American Scientist* 87:160–69. [JSC]
- Turchin, P. (2003) *Historical dynamics*. Princeton University Press. [aPR]
- Turchin, P. (2006) *War and peace and war: The life cycles of imperial nations*. Pi Press. [arPR]
- Turchin, P. (2008) Arise “cliodynamics.” *Nature* 454(7200):34–35. doi: 10.1038/454034a. [aPR]
- Turchin, P. (2009) A theory for the formation of large empires. *Journal of Global History* 4:191–217. [arPR]
- Turchin, P., Brennan, P., Currie, T., Feeney, K., Francois, P., Hoyer, D., Manning, J., Marciniak, A., Mullins, D., Palmisano, A., Peregrine, P., Turner, E. A. L., Whitehouse, H. (2015). Seshat: The Global History Databank. *Cliodynamics* 6:77–107. [PT]
- Turchin, P., Currie, T. E., Turner, E. A. L. & Gavrilets, S. (2013) War, space, and the evolution of Old World complex societies. *Proceedings of the National Academy of Sciences USA* 110:16384–89. [PT]
- Turchin, P. & Nefedov, S. A. (2009) *Secular cycles*. Princeton University Press. [arPR]
- Turchin, P., Whitehouse, H., Francois, P., Slingerland, E. & Collard, M. (2012) A historical database of sociocultural evolution. *Cliodynamics: The Journal of Theoretical and Mathematical History* 3(2):271–93. [aPR]
- van Schaik, C. P. & Burkart, J. M. (2010) Mind the gap: Cooperative breeding and the evolution of our unique features. In: *Mind the gap: Tracing the origins of human universals*, ed. P. M. Kappeler & J. Silk, pp. 477–96. Springer. [JMB]
- Veblen, T. (1898) Why is economics not an evolutionary science? *The Quarterly Journal of Economics* 12(4):373–97. [aPR]
- Vigil, J. M. (2009) A socio-relational framework of sex differences in the expression of emotion. *Behavioral and Brain Sciences* 32(5):375–428. [JMV]
- Vigil, J. M. & Alcock, J. (2014) Tough guys or cry babies? Disentangling the role of examiner gender on patient pain reports. *Pain Research and Management* 19: e9–e12. [JMV]
- Vigil, J. M. & Coulombe, P. (2011) Biological sex and audience affects pain intensity and observational coding of other people’s pain behaviors. *Pain* 152:2125–30. [JMV]
- Vigil, J. M., Pendleton, P., Coulombe, P., Vowels, K., Alcock, J. & Smith, B. (2014a) Pain patients and who they live with: A correlational study of co-residence patterns and pain interference. *Pain Research and Management* 19:e109–e114. [JMV]
- Vigil, J. M., Rowell, L. N., Alcock, J. & Maesters, R. (2014b) Laboratory personnel gender and cold pressor apparatus affect subjective pain reports. *Pain Research and Management* 19:e13–e18. [JMV]
- Vigil, J. M., Rowell, N., Chouteau, S., Chavez, A., Jaramillo, E., Neal, M. & Waid, D. (2013) Sex differences in how social networks and relationship quality influence experimental pain sensitivity. *PLoS ONE* 8:e78663. doi:10.1371/journal.pone.0078663. [JMV]
- Vigil, J. M. & Strenth, C. (2014) No pain, no social gains: A social-signaling perspective of human pain behaviors. *World Journal of Anesthesiology* 3(1):18–30. Available at: <http://www.wjnet.com/2218-6182/abstract/3/1/18.htm>. [JMV]
- Vigil, J. M., Strenth, C., Trujillo, T. & Gangestad, S. W. (2014c) Fluctuating experimental pain sensitivities across the menstrual cycle are contingent on women’s current romantic relationship status. *PLoS ONE* 9:e91993. doi:10.1371/journal.pone.0091993. [JMV]
- Vigil, J. M., Torres, D., Wolff, A. & Hughes, K. (2014d) Exposure to virtual social stimuli modulates subjective pain reports. *Pain Research and Management* 19: e103–e108. [JMV]
- Vitale, A., Zanzoni, M., Queyras, A. & Chiarotti, F. (2003) Degree of social contact affects the emission of food calls in the common marmoset (*Callithrix jacchus*). *American Journal of Primatology* 59:21–28. [JMB]
- Walker, J. M., Gardner, R., Herr, A. & Ostrom, E. (2000) Collective choice in the commons: Experimental results on proposed allocation rules and votes. *The Economic Journal* 110(460):212–34. [DA]
- Walker, R. S., Wichmann, S., Mailund, T. & Atkisson, C. J. (2012) Cultural phylogenetics of the Tupi language family in lowland South America. *PLoS ONE* 7(4): e35025. doi: 10.1371/journal.pone.0035025. [aPR]
- Warneken, F. & Tomasello, M. (2009) Varieties of altruism in children and chimpanzees. *Trends in Cognitive Sciences* 13(9):397–402. [aPR]
- Washburn, S. L. (1959) Speculations on the interrelations of the history of tools and biological evolution. *Human Biology* 31(1):21–31. [aPR]
- Watanabe, J. M. (1990) From saints to shibboleths: Image, structure, and identity in Maya religious syncretism. *American Ethnologist* 17(1):131–50. [CSa]
- Wehmeier, S. & Hornby, A. S. (2000) *Oxford advanced learner’s dictionary of current English*. Cornelsen & Oxford University Press. [CSi]
- Weingarten, C. & Chisholm, J. (2009) Attachment and cooperation in religious groups: An example of a mechanism for cultural group selection. *Current Anthropology* 50(6):759–85. [JSC]
- West, R. (1941) *Black lamb and grey falcon*. Penguin. [aPR]
- West, S. A., El Mouden, C. & Gardner, A. (2011) Sixteen common misconceptions about the evolution of cooperation in humans. *Evolution and Human Behavior* 32(4):231–62. doi: 10.1016/j.evolhumbehav.2010.08.001. [aPR, PB]
- West, S. A., Griffin, A. S. & Gardner, A. (2007) Social semantics: Altruism, cooperation, mutualism, strong reciprocity and group selection. *Journal of Evolutionary Biology* 20(2):415–32. doi: 10.1111/j.1420-9101.2006.01258.x. [aPR, RMN]
- West-Eberhard, M. J. (1979) Sexual selection, social competition, and evolution. *Proceedings of the American Philosophical Society* 123(4):222–34. [RMN]
- West-Eberhard, M. J. (1983) Sexual selection, social competition, and speciation. *Quarterly Review of Biology* 58(2):155–83. [RMN]
- Westgarth, C., Heron, J., Ness, A. R., Bundred, P., Gaskell, R. M., Coyne, K. P., German, A. J., McCune, S. & Dawson, S. (2010) Family pet ownership during childhood: Findings from a UK birth cohort and implications for public health research. *International Journal of Environmental Research and Public Health* 7(10):3704–29. [HH]
- White, L. (1959) *The evolution of culture*. McGraw-Hill. [DR]
- Whitehead, H. & Rendell, L. (2015) *The cultural lives of whales and dolphins*. University of Chicago Press. [rPR]
- Whitehouse, H. (2002) Modes of religiosity: Towards a cognitive explanation of the sociopolitical dynamics of religion. *Method and Theory in the Study of Religion* 14(3/4):293–315. [aPR]
- Whiten, A. & Erdal, D. (2012) The human socio-cognitive niche and its evolutionary origins. *Philosophical Transactions of the Royal Society, B* 367:2119–29. [AF, AW]
- Whiten, A., Goodall, J., McGrew, W. C., Nishida, T., Reynolds, V., Sugiyama, Y., Tutin, C. E. G., Wrangham, R. W. & Boesch, C. (1999) Cultures in chimpanzees. *Nature* 399:682–85. [rPR]
- Whiten, A., McGuigan, N., Marshall-Pescini, S. & Hopper, L. M. (2009) Emulation, imitation, over-imitation and the scope of culture for child and chimpanzee. *Philosophical Transactions of the Royal Society B* 364:2417–28. [arPR]
- Wierzbicka, A. (1992) *Semantics, culture, and cognition: Human concepts in culture-specific configurations*. Oxford University Press. [aPR]
- Wiessner, P. (2002) The vines of complexity: Egalitarian structures and the institutionalization of inequality among the Enga. *Current Anthropology* 43(2):233–69. [MS]
- Wilkins, A. S., Wrangham, R. W. & Tecumseh Fitch, W. (2014) The “domestication syndrome” in mammals: A unified explanation based on neural crest cell behavior and genetics. *Genetics* 197(3):795–808. [HG]
- Wilkins, J., Schoville, B. J., Brown, K. S. & Chazan, M. (2012) Evidence for early hafted hunting technology. *Science* 338:942–46. [HG]
- Wilks, M., Collier-Baker, E. & Nielsen, M. (2015) Preschool children favor copying a successful individual over an unsuccessful group. *Developmental Science* 18(6):1014–24. doi: 10.1111/desc.12274. [SS]
- Williams, G. C. (1966) *Adaptation and natural selection*. Princeton University Press. [PB, MMK]

- Williams, G. C. (1992) *Natural selection: Domains, levels and challenges*: Oxford University Press. [rPR]
- Wilson, D. S. (2002) *Darwin's cathedral: Evolution, religion, and the nature of society*. University of Chicago Press. [aPR]
- Wilson, D. S. & Kniffin, K. M. (1999) Multilevel selection and the social transmission of behavior. *Human Nature* 10(3):291–310. [aPR]
- Wilson, E. O. (2012) *The social conquest of earth*. W. W. Norton. [HG, aPR]
- Wolf, J. B., Brodie, E. D., III & Moore, A. J. (1999) Interacting phenotypes and the evolutionary process. II. Selection resulting from social interactions. *American Naturalist* 153:254–66. [RMN]
- Wolfe, N. D., Dunavan, C. P. & Diamond, J. (2007) Origins of major human infectious diseases. *Nature* 447(7142):279–83. [aPR]
- Woolley, J. D. & E. Ghossainy, M. (2013) Revisiting the fantasy–reality distinction: Children as naïve skeptics. *Child Development* 84(5):1496–510. [SS]
- Wrangham, R. (2009) *Catching fire: How cooking made us human*. Basic Books. [aPR]
- Wrangham, R. W. & Carmody, R. (2010) Human adaptation to the control of fire. *Evolutionary Anthropology* 19:187–99. [HG]
- Wright, S. (1943) Isolation by distance. *Genetics* 28:114–38. [RMR]
- Yamagishi, T., Hashimoto, H. & Schug, J. (2008) Preferences versus strategies as explanations for culture-specific behavior. *Psychological Science* 19:579–84. [PB]
- Yamagishi, T., Jin, N. & Kiyonari, T. (1999) Bounded generalized reciprocity: Ingroup boasting and ingroup favoritism. *Advances in Group Processes* 16:161–97. [CKWDD]
- Zefferman, M. R. (2014a) Direct reciprocity under uncertainty does not explain one-shot cooperation, but demonstrates the benefits of a norm psychology. *Evolution and Human Behavior* 35:358–67. doi: 10.1016/j.evolhumbehav.2014.04.003. [arPR, JH]
- Zefferman, M. R. (2014b) When repentance and forgiveness are possible, direct reciprocity does not explain one-shot generosity, even under arbitrarily high levels of uncertainty. *Evolution and Human Behavior* 35(6):548–49. Available at: <http://dx.doi.org/10.1016/j.evolhumbehav.2014.07.003> [rPR]
- Zhou, W. X., Sornette, D., Hill, R. A. & Dunbar, R. I. M. (2005) Discrete hierarchical organization of social group sizes. *Proceedings of the Royal Society B* 272:439–44. [CA-C]
- Zuberbühler, K. (2012) Cooperative breeding and the evolution of vocal flexibility. In: *The Oxford handbook of language evolution*, ed. M. Tallerman & K. Gibson, pp. 71–81. Oxford University Press. [JMB]