



Universiteit  
Leiden  
The Netherlands

## **Art in the Making: The evolutionary origins of visual art as a communication signal**

Mendoza Straffon, L.

### **Citation**

Mendoza Straffon, L. (2014, September 10). *Art in the Making: The evolutionary origins of visual art as a communication signal*. Retrieved from <https://hdl.handle.net/1887/28698>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/28698>

**Note:** To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/28698> holds various files of this Leiden University dissertation.

**Author:** Mendoza Traffon, Larissa

**Title:** Art in the making. The evolutionary origins of visual art as a communication signal

**Issue Date:** 2014-09-10

## BIBLIOGRAPHY

- Absolon, K. (1949). The Diluvial anthropomorphic statuettes and drawings, especially the so-called Venus statuettes, discovered in Moravia. *Artibus Asiae*, 12(3), 201-220.
- Aiello, L. C., & Dunbar, R. I. (1993). Neocortex size, group size, and the evolution of language. *Current Anthropology*, 34(2), 184-193.
- Aiello, L. C., & Key, C. (2002). Energetic consequences of being a *Homo erectus* female. *American Journal of Human Biology*, 14(5), 551-565.
- Aiello, L. C., & Wheeler, P. (1995). The expensive-tissue hypothesis: the brain and the digestive system in human and primate evolution. *Current anthropology*, 36(2), 199-221.
- Aiken, N. E. (1998). *The Biological Origins of Art*. Westport, Ct.: Praeger.
- (1999). How Art Arouses Emotion. In J. B. Bedaux & B. Cooke (Eds.), *Sociobiology and the Arts* (pp. 159-173): Editions Rodopi.
- Aiken, N. E., & Coe, K. (2004). Promoting Cooperation Among Humans: The arts as the ties that bind. *Bulletin of Psychology and the Arts*, 5(1), 5-20.
- Alexander, R. D. (1986). Ostracism and indirect reciprocity: The reproductive significance of humor. *Ethology and Sociobiology*, 7(3), 253-270.
- Alland, A. (1977). *The Artistic Animal: An inquiry into the biological roots of art*. Garden City, NY: Anchor Books.
- Álvarez Fernández, E., & Jöris, O. (2008). Personal Ornaments in the Early Upper Paleolithic of Western Eurasia: an Evaluation of the Record. *Eurasian Prehistory*, 5(2), 31-44.
- Ambrose, J. (1966). Ritualization in the human infant-mother bond. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 251(772), 359-362.
- Ambrose, S. H. (1998a). Chronology of the Later Stone Age and food production in East Africa. *Journal of Archaeological Science*, 25(4), 377-392.
- (1998b). Late Pleistocene human population bottlenecks, volcanic winter, and differentiation of modern humans. *Journal of Human Evolution*, 34(6), 623-651.
- (2001). Paleolithic Technology and Human Evolution. *Science*, 291(5509), 1748-1753.
- (2010). Coevolution of Composite-Tool Technology, Constructive Memory, and Language: Implications for the Evolution of Modern Human Behavior. *Current Anthropology*, 51(S1), S135-S147.
- Anderson, R. L. (1992). Do Other Cultures Have "Art"? *American Anthropologist*, 94(4), 926-929.
- Andersson, M. (1994). *Sexual Selection*. Princeton: Princeton University Press.
- Andersson, M., & Iwasa, Y. (1996). Sexual Selection. *Trends in Ecology and Evolution*, 11(2), 53-58.
- Andersson, M., & Simmons, L. W. (2006). Sexual Selection and Mate Choice. *Trends in Ecology and Evolution*, 21(6), 296-302.
- Anikovich, M. V., Sinitsyn, A. A., Hoffecker, J. F., Holliday, V. T., Popov, V. V., Lisitsyn, S. N., et al. (2007). Early Upper Paleolithic in Eastern Europe and Implications for the Dispersal of Modern Humans. *Science*, 315(5809), 223-226.
- Apicella, C. L., Marlowe, F. W., Fowler, J. H., & Christakis, N. A. (2012). Social networks and cooperation in hunter-gatherers. *Nature*, 481(7382), 497-501.
- Apostolou, M. (2007). Sexual selection under parental choice: The role of parents in the evolution of human mating. *Evolution and Human Behavior*, 28(6), 403-409.
- Arden, R., Gottfredson, L. S., Miller, G., & Pierce, A. (2009). Intelligence and semen quality are positively correlated. *Intelligence*, 37(3), 277-282.
- Arratia, L. G. (1987). *Teoría y método en el registro de las manifestaciones gráficas rupestres* (Vol. 35). Mexico: Instituto Nacional de Antropología e Historia.
- Aschmann, H. (1959). *The central desert of Baja California; demography and ecology*. Berkeley: University of California Press.
- Aureli, F., Schaffner, C. M., Boesch, C., Bearder, S. K., Call, J., Chapman, C. A., et al. (2008). Fission-Fusion Dynamics. *Current Anthropology*, 49(4), 627-654.
- Axelrod, R., & Hamilton, W. D. (1981). The evolution of cooperation. *Science*, 211(4489), 1390-1396.

## Bibliography

- Baars, B. J. (1986). *The Cognitive Revolution in Psychology*: Guilford Press.
- Bahn, P. G. (1992). *Collins dictionary of archaeology*: ABC-CLIO.
- (1998). *The Cambridge illustrated history of prehistoric art*: Cambridge University Press Cambridge.
- Bahn, P. G., & Vertut, J. (1997). *Journey through the ice age*: University of California Pr.
- Baker, H., & Kellogg, R. (1967). A developmental study of children's scribbles. *Pediatrics*, 40(3), 382-389.
- Balter, M. (2011). Was North Africa the Launch Pad for Modern Human Migrations? *Science*, 331(6013), 20-23.
- Barham, L., & Mitchell, P. (2008). *The first Africans: African archaeology from the earliest tool makers to most recent foragers*: Cambridge University Press.
- Barham, L. S. (1998). Possible Early Pigment Use in South Central Africa. *Current Anthropology*, 39(5), 703-710.
- Barham, L. S. (2002). Systematic Pigment Use in the Middle Pleistocene of South-Central Africa. *Current Anthropology*, 43(1), 181-190.
- Barnard, A. (2009). Social origins: sharing, exchange, kinship. In R. Botha & C. Knight (Eds.), *The Cradle of Language* (pp. 219-235): Oxford University Press.
- Barrett, L., Henzi, S. P., & Lusseau, D. (2012). Taking sociality seriously: the structure of multi-dimensional social networks as a source of information for individuals. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1599), 2108-2118.
- Barth, M., Conard, N., & Münzel, S. (2009). Paleolithic Subsistence and Organic Technology in the Swabian Jura. In L. Fontana, F. Chauviere & A. Bridault (Eds.), *In Search of the Total animal Exploitation: Case Studies from the Upper Palaeolithic and Mesolithic*. (Vol. 42, pp. 5-20): BAR International Series.
- Barton, C. M., Clark, G. A., & Allison, E. C. (1994). Art as Information: Explaining Upper Palaeolithic Art in Western Europe. *World Archaeology*, 26(2), 185-207.
- Bar-Yosef Mayer, D. E., Vandermeersch, B., & Bar-Yosef, O. (2009). Shells and ochre in Middle Paleolithic Qafzeh Cave, Israel: indications for modern behavior. *Journal of Human Evolution*, 56(3), 307-314.
- Bar-Yosef, O. (2002). The Upper Paleolithic Revolution. *Annual Review of Anthropology*, 31, 363-393.
- (2007). The archaeological framework of the Upper Paleolithic revolution. *Diogenes*, 54(2), 3-18.
- (2004). Eat what is there: Hunting and gathering in the world of Neanderthals and their neighbours. *International Journal of Osteoarchaeology*, 14(3-4), 333-342.
- Bednarik, R. G. (2003). A Figurine from the African Acheulian. *Current Anthropology*, 44(3), 405-413.
- Bégouen, C. (1929). The magic origin of prehistoric art. *Antiquity*, 3(9), 5-19.
- Bell, D. C. (2001). Evolution of parental caregiving. *Personality and social psychology review*, 5(3), 216-229.
- Bennett, D. J. (2005). *Logic Made Easy: How to Know When Language Deceives You*: W. W. Norton.
- Berghaus, G. (2004). *New perspectives on prehistoric art*: Greenwood Publishing Group.
- Berglund, A., Bisazza, A., & Pilastro, A. (1996). Armaments and Ornaments: an evolutionary explanation of traits of dual utility. *Biological Journal of the Linnean Society*, 58, 385-399.
- Berwick, R. C., Hauser, M. D., & Tattersall, I. (2013). Neanderthal language? Just-so stories take center stage. *Frontiers in psychology*, 4.
- Birdsell, J. B. (1968). Some predictions for the Pleistocene based on equilibrium systems among recent hunter-gatherers. In I. DeVore & R. B. Lee (Eds.), *Man the hunter* (pp. 229-240): Aldine De Gruyter.
- Blades, B. (1999). Aurignacian Settlement Patterns in the Vézère Valley. *Current Anthropology*, 40(5), 712-719.
- Blau, P. M. (1964). *Exchange and Power in Social Life*: Wiley.
- Blome, M. W., Cohen, A. S., Tryon, C. A., Brooks, A. S., & Russell, J. (2012). The environmental context for the origins of modern human diversity: A synthesis of regional variability in African climate 150,000–30,000 years ago. *Journal of human evolution*, 62(5), 563-592.
- Bocquet-Appel, J.-P., & Demars, P.-Y. (2000). Population kinetics in the Upper Palaeolithic in western Europe. *Journal of Archaeological Science*, 27(7), 551-570.

- Boivin, N. (2009). Grasping the elusive and unknowable: material culture in ritual practice. *Material Religion*, 5(3), 266-287.
- Bokma, F., Van Den Brink, V., & Stadler, T. (2012). Unexpectedly many extinct hominins. *Evolution*, 66(9), 2969-2974.
- Bolhuis, J. J., Brown, G. R., Richardson, R. C., & Laland, K. N. (2011). Darwin in Mind: New Opportunities for Evolutionary Psychology. *PLoS Biol*, 9(7), e1001109.
- Bolhuis, J. J., & Wynne, C. D. L. (2009). Can evolution explain how minds work? *Nature*, 458, 832-833.
- Bolt, L. M. (2008). *Musical Matings: Sexual Selection and the Origins of Music*: VDM Publishing.
- Bolus, M. (2005). Brachten es moderne Menschen mit? Die Anfänge des Jungpaläolithikums in Europa. In N. J. Conard, S. Kölbl & W. Schürle (Eds.), *Vom Neandertaler zum modernen Menschen* (pp. 71-98): Thorbecke.
- Bonde, N. (2012). Hominid Diversity and 'Ancestor' Myths *The Symbolic Species Evolved* (pp. 151-191): Springer.
- Bonwick, J. (1870). *Daily life and origin of the Tasmanians*: Oxford University.
- Boquet-Appel, J.-P., & Demars, P.-Y. (2000). Population Kinetics in the Upper Palaeolithic in Western Europe. *Journal of Archaeological Science*, 27(7), 551-570.
- Bouzouggar, A., Barton, N., Vanhaeren, M., d'Errico, F., Collcutt, S., Higham, T., et al. (2007). 82,000-year-old shell beads from North Africa and implications for the origins of modern human behavior. *Proceedings of the National Academy of Sciences*, 104(24), 9964-9969.
- Bowler, J. M., Johnston, H., Olley, J. M., Prescott, J. R., Roberts, R. G., Shawcross, W., et al. (2003). New ages for human occupation and climatic change at Lake Mungo, Australia. [10.1038/nature01383]. *Nature*, 421(6925), 837-840.
- Bowles, S., & Gintis, H. (2011). *A Cooperative Species: Human Reciprocity and Its Evolution*: Princeton University Press.
- Boyd, B. (2005). Evolutionary Theories of Art. In J. Gottschal & D. S. Wilson (Eds.), *The Literary Animal* (pp. 147-176): Northwestern University Press.
- (2009a). Art and Selection. *Philosophy and Literature*, 33, 204-220.
- (2009b). *On the Origin of Stories: Evolution, cognition, and fiction*: The Belknap Press of Harvard University Press.
- Boyd, R., & Richerson, P. J. (2006). Culture and the evolution of the human social instincts. In N. J. Enfield & S. C. Levinson (Eds.), *Roots of human sociality* (pp. 453-477): Bloomsbury Academic.
- Breuil, H., & Windels, F. (1952). *Quatre cents siècles d'art pariétal: les cavernes ornées de l'âge du renne*: Centre d'études et de documentation préhistoriques.
- Broglio, A., De Stefani, M., Gurioli, F., & Peresani, M. (2006). Les peintures aurignaciennes de la Grotte de Fumane (Monts Lessini, Préalpes de la Vénétie). *International Newsletter on Rock Art*, 44, 1-8.
- Brown, P., Sutikna, T., Morwood, M. J., & Soejono, R. P. (2004). A new small-bodied hominin from the Late Pleistocene of Flores, Indonesia. *Nature*, 431(7012), 1055-1061.
- Brown, S. (2000). Evolutionary Models of Music: From Sexual Selection to Group Selection. In F. Tonneau & N. S. Thompson (Eds.), *Perspectives in Ethology: Evolution, Culture, and Behavior* (pp. 231-281). New York: Kluwer Academic/Plenum Publishers.
- (2007). Contagious Heterophony: A new theory about the origins of music. *Musicae Scientiae*, 11(1), 3-26.
- Brown, S., Martinez, M. J., & Parsons, L. M. (2006). Music and language side by side in the brain: a PET study of the generation of melodies and sentences. *European journal of neuroscience*, 23(10), 2791-2803.
- Brumm, A., & Moore, M. W. (2005). Symbolic Revolutions and the Australian Archaeological Record. *Cambridge Archaeological Journal*, 15(02), 157-175.
- Bruner, E. (2010). Morphological Differences in the Parietal Lobes within the Human Genus: A Neurofunctional Perspective. *Current Anthropology*, 51(S1), S77-S88.
- Buckley, C., & Steele, J. (2002). Evolutionary ecology of spoken language: Co-evolutionary hypotheses are testable. *World Archaeology*, 34(1), 26 - 46.
- Bunge, M. (1977). Emergence and the mind. *Neuroscience*, 2(4), 501-509.
- (1997). Mechanism and explanation. *Philosophy of the social sciences*, 27(4), 410-465.

## Bibliography

- (1998). Semiotic systems. *Systems: New Paradigms for the Human Sciences*, Gabriel Altmann and Walter A. Koch (eds.), 337-349.
- (2003). *Emergence and Convergence: Qualitative Novelty and the Unity of Knowledge*: University of Toronto Press.
- (2010). *Matter and Mind: A Philosophical Inquiry*: Springer Verlag.
- Burkart, J. M., Hrdy, S. B., & Van Schaik, C. P. (2009). Cooperative breeding and human cognitive evolution. *Evolutionary Anthropology: Issues, News, and Reviews*, 18(5), 175-186.
- Burroughs, W. J. (2009). *Climate Change in Prehistory: The End of the Reign of Chaos*: Cambridge University Press.
- Bushara, K. O., Weeks, R. A., Ishii, K., Catalan, M.-J., Tian, B., Rauschecker, J. P., et al. (1999). Modality-specific frontal and parietal areas for auditory and visual spatial localization in humans. *Nature neuroscience*, 2(8), 759-766.
- Buss, D. M. (1994). The strategies of human mating. *American Scientist*, 82(3), 238-249.
- Buunk, A. P., Park, J. H., & Duncan, L. A. (2010). Cultural variation in parental influence on mate choice. *Cross-Cultural Research*, 44(1), 23-40.
- Cain, C. R. (2006). Implications of the marked artifacts of the Middle Stone Age of Africa. *Current Anthropology*, 47(4), 675-681.
- Cairns, R. B., & Cairns, B. D. (2006). The Making of Developmental Psychology. In W. Damon & R. M. Lerner (Eds.), *Handbook of Child Psychology, Theoretical Models of Human Development* (pp. 89-165): John Wiley & Sons.
- Calcott, B. (2013). Why how and why aren't enough: more problems with Mayr's proximate-ultimate distinction. *Biology & Philosophy*, 28(5), 767-780.
- Candland, D. K. (1993). *Feral children and clever animals: reflections on human nature*: Oxford University Press.
- Caron, F., D'Errico, F., Del Moral, P., Santos, F., & Zilhão, J. (2011). The reality of Neandertal symbolic behavior at the Grotte du Renne, Arcy-sur-Cure, France. *PLoS One*, 6(6), e21545.
- Carrión, J. S., Rose, J., & Stringer, C. (2011). Early human evolution in the western Palaeoarctic: ecological scenarios. *Quaternary Science Reviews*, 30(11), 1281-1295.
- Carroll, J. (2004). *Literary Darwinism: Evolution, Human Nature, and Literature*: Routledge.
- Cartailhac, É., & Breuil, H. (1903). Les peintures préhistoriques de la grotte d'Altamira à Santillana (Espagne). *Comptes-rendus des séances de l'Académie des Inscriptions et Belles-Lettres*, 47(3), 256-264.
- Cassiano, G. (1992). El poblamiento de México a fines del Pleistoceno. *Cuicuilco*, 29(30).
- Catchpole, C. K., & Slater, P. J. B. (2003). *Bird Song: Biological Themes and Variations*: Cambridge University Press.
- Chase, P. G. (1991). Symbols and paleolithic artifacts: Style, standardization, and the imposition of arbitrary form. *Journal of Anthropological Archaeology*, 10(3), 193-214.
- Cheney, D., & Seyfarth, R. (1990). Attending to behaviour versus attending to knowledge: examining monkeys' attribution of mental states. *Animal Behaviour*, 40(4), 742-753.
- Chilton, E. S. (1999). *Material meanings: critical approaches to the interpretation of material culture*: University of Utah Press.
- Churchill, S. E., & Smith, F. H. (2000). Makers of the early Aurignacian of Europe. *American journal of physical anthropology*, 113(s 31), 61-115.
- Clark, A. (1998). Magic words: How language augments human computation. *Language and thought: Interdisciplinary themes*, 162-183.
- (2003). *Natural-born Cyborgs: Minds, technologies, and the future of human intelligence*: Oxford University Press.
- (2004). *Memento's revenge: the extended mind, revisited* (Vol. 20): Amsterdam: John Benjamins,
- Clark, A., & Chalmers, D. (1998). The extended mind. *Analysis*, 58(1), 7-19.
- Clark, J. D. (1988). The Middle Stone Age of East Africa and the beginnings of regional identity. *Journal of World Prehistory*, 2(3), 235-305.
- Clegg, H., Nettle, D., & Miell, D. (2011). Status and mating success amongst visual artists. *Frontiers in psychology*, 2.

- Clottes, J. (1993). Paint Analyses from Several Magdalenian Caves in the Ariège Region of France. *Journal of Archaeological Science*, 20(2), 223-235.
- (2003). *Return to Chauvet Cave: Excavating the Birthplace of Art: The First Full Report*: Thames and Hudson.
- Clottes, J., & Arnold, M. (2003). *Chauvet Cave: The Art of Earliest Times*: University of Utah Press.
- Coe, K. (2003). *The Ancestress Hypothesis: Visual art as adaptation*. New Brunswick, NJ: Rutgers University Press.
- Cohen, A. S., Stone, J. R., Beuning, K. R. M., Park, L. E., Reinthal, P. N., Dettman, D., et al. (2007). Ecological consequences of early Late Pleistocene megadroughts in tropical Africa. *Proceedings of the National Academy of Sciences*, 104(42), 16422-16427.
- Collins, D., & Onians, J. (1978). The Origins of Art. *Art History*, 1(1), 1-25.
- Collins, S. A. (1995). The effect of recent experience on female choice in zebra finches. *Animal Behaviour*, 49(2), 479-486.
- Comber, J., & Jouve, G. (2014). Nouvelles recherches sur l'identité culturelle et stylistique de la grotte Chauvet et sur sa datation par la méthode du 14C. *L'Anthropologie*, 118(2), 115-151
- Conard, N. J. (2003). Palaeolithic ivory sculptures from southwestern Germany and the origins of figurative art. *Nature*, 426(6968), 830-832.
- (2004). *Settlement Dynamics of the Middle Paleolithic and Middle Stone Age* (Vol. 2): Kerns Verlag.
- (2005). An overview of the patterns of behavioural change in Africa and Eurasia during the Middle and Late Pleistocene. In F. D'Errico & L. Backwell (Eds.), *From tools to symbols: from early hominids to modern humans* (pp. 294-332): Witwatersrand University Press.
- (2009). A female figurine from the basal Aurignacian of Hohle Fels Cave in southwestern Germany. *Nature*, 459(7244), 248-252.
- Conard, N. J., & Bolus, M. (2003). Radiocarbon dating the appearance of modern humans and timing of cultural innovations in Europe: new results and new challenges. *Journal of Human Evolution*, 44(3), 331-371.
- Conard, N. J., Dippon, G., & Goldberg, P. (2003). *Chronostratigraphy and archeological context of the Aurignacian deposits at Geißenklösterle*. Paper presented at the The chronology of the Aurignacian and of the transitional technocomplexes: dating, stratigraphies, cultural implications. Proceedings of Symposium.
- Conkey, M. W. (1978). Style and information in cultural evolution: toward a predictive model for the Paleolithic. *Social archaeology: Beyond subsistence and dating*, 61-85.
- (1984). To find ourselves: art and social geography of prehistoric hunter gatherers. In C. Schrire (Ed.), *Past and present in hunter-gatherer studies* (pp. 253-276). Orlando, FL: Academic Press.
- (1985). Ritual communication, social elaboration, and the variable trajectories of Paleolithic material culture. *Prehistoric hunter-gatherers: The emergence of cultural complexity*, 299-323.
- (1987). New Approaches in the Search for Meaning? A Review of Research in "Paleolithic Art ". *Journal of Field Archaeology*, 14(4), 413-430.
- (1990). Experimenting with style in Archaeology. In M. Conkey & C. A. Hastorf (Eds.), *The Uses of Style in Archaeology* (pp. 5-17): Cambridge University Press.
- (1993). Humans as Materialists and Symbolists: Image Making in the Upper Paleolithic. In D. Tab Rasmussen (Ed.), *The origin and evolution of humans and humanness* (pp. 95-118): Jones and Bartlett Publishers.
- (2006). Style, design and function. In C. Tilley, W. Keane, S. Kuechler, M. Rowlands, & P. Spyer (Eds.), *Handbook of material culture* (pp. 355-372): SAGE.
- Conkey, M., & Soffer, O. (1997). Studying ancient visual cultures. *Beyond Art: Pleistocene Image and Symbol*. San Francisco: California Academy of Sciences, 1, 5-6.
- Cook, J. (2013). *Ice Age Art: The Arrival of the Modern Mind*: British Museum Press.
- Coolidge, F. L., & Wynn, T. (2005). Working memory, its executive functions, and the emergence of modern thinking. *Cambridge archaeological journal*, 15(01), 5-26.
- (2009). *The rise of Homo sapiens: the evolution of modern thinking*: Wiley

## Bibliography

- Cooper, J. C., Kreps, T. A., Wiebe, T., Pirkl, T., & Knutson, B. (2010). When giving is good: ventromedial prefrontal cortex activation for others' intentions. *Neuron*, 67(3), 511-521.
- Corbey, R. (2005). *The Metaphysics of Apes: Negotiating the Animal-Human Boundary*: Cambridge University Press.
- Corbey, R., & Roebroeks, W. (2007). From Shell Beads to Syntax: The Cradle of Language, University of Stellenbosch, South Africa, 6-9 November 2006. *Anthropology Today*, 23(4), 24-26.
- Cordain, L., Eaton, S. B., Sebastian, A., Mann, N., Lindeberg, S., Watkins, B. A., et al. (2005). Origins and evolution of the Western diet: health implications for the 21st century. *The American Journal of Clinical Nutrition*, 81(2), 341-354.
- Cordero, A. (2012). Mario Bunge's scientific realism. *Science & Education*, 21(10), 1419-1435.
- Corneille, O., Huart, J., Becquart, E., & Bredart, S. (2004). When memory shifts toward more typical category exemplars: Accentuation effects in the recollection of ethnically ambiguous faces. *Journal of Personality and Social Psychology*, 86(2), 236-250.
- Coss, R. G. (2003). The Role of Evolved Perceptual Biases in Art and Design. In E. Voland & K. Grammer (Eds.), *Evolutionary Aesthetics* (pp. 69-130). Heidelberg: Springer.
- Coward, F., & Gamble, C. (2008). Big brains, small worlds: material culture and the evolution of the mind. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 363(1499), 1969-1979.
- Coward, F., & Grove, M. (2011). Beyond the tools: social innovation and hominin evolution. *PalaeoAnthropology*, 2011, 111-129.
- Craig, R. T. (1999). Communication theory as a field. *Communication theory*, 9(2), 119-161.
- Croft, W. (2000). *Explaining Language Change: An Evolutionary Approach*: Longman Linguistics Library.
- Cronin, H. (1991). *The Ant and the Peacock: Altruism and Sexual Selection from Darwin to Today*. New York: Cambridge University Press.
- Cross, I., & Morley, I. (2008). The evolution of music: theories, definitions and the nature of the evidence. *Communicative musicality*, 61-82.
- Crowley, P. H., Provencher, L., Sloane, S., Dugatkin, L. A., Spohn, B., Rogers, L., et al. (1996). Evolving cooperation: the role of individual recognition. *BioSystems*, 37(1), 49-66.
- Currie, G. (2011). The Master of the Masek Beds: Handaxes, Art, and the Minds of Early Humans. In E. Schellekens & P. Goldie (Eds.), *The Aesthetic Mind: Philosophy and Psychology* (pp. 9-31): Oxford University Press.
- Daniels, H. (2012). *Vygotsky and sociology*: Routledge.
- Darwin, C. ([1859]2006). *On the Origins of Species by Means of Natural Selection or The Preservation of Favoured Races in the Struggle for Life*. 1st edition published in 1859. Introduction to the Dover Edition by Michael T. Ghiselin. Mineola: Dover Publications.
- ([1879]2004). *The Descent of Man, and Selection in Relation to Sex*. 2nd edition published in 1879. With an introduction by James Moore and Adrian Desmond. London: Penguin Books.
- Dautenhahn, K. (2003). Stories of Lemurs and Robots: The social origin of story-telling. In M. Mateas & P. Sengers (Eds.), *Narrative Intelligence: Advances in Consciousness Research*. Amsterdam: John Benjamins Publishing.
- Davidson, I. (2010). The archeology of cognitive evolution. *Wiley Interdisciplinary Reviews: Cognitive Science*, 1(2), 214-229.
- (2012). *Symbolism and Becoming a Hunter-Gatherer*. Paper presented at the Pleistocene Art of the World, Tarascon-sur-Ariege, France.
- Davidson, I., & Noble, W. (1992). Why the first colonisation of the Australian region is the earliest evidence of modern human behaviour. *Archaeology in Oceania*, 27(3), 135-142.
- Davies, S. (2000). Non-western Art and Art's definition. *Theories of Art today*, 199-216.
- (2005). Ellen Dissanayake's Evolutionary Aesthetic. *Biology and Philosophy*, 20, 291-304.
- Davies, W. (2001). *A very model of a modern human industry: new perspectives on the origins and spread of the Aurignacian in Europe*. Paper presented at the Proceedings of the Prehistoric Society.
- (2007). Re-evaluating the Aurignacian as an expression of modern human mobility and dispersal. In P. Mellars (Ed.), *Rethinking the Human Revolution: New Behavioural and*



- Biological Perspectives on the Origin and Dispersal of Modern Humans* (pp. 263-274): McDonald Institute for Archaeological Research.
- Davis, W. (1984). Representation and knowledge in the prehistoric rock art of Africa. *African Archaeological Review*, 2(1), 7-35.
- (1986). The Origins of Image Making. *Current Anthropology*, 27(3), 193-215.
- (1989). Towards an archaeology of thought. In I. Hodder (Ed.), *The Meaning of Things: Material Culture and Symbolic Expression* (pp. 202-208): Harper Collins.
- (1993). Beginning the history of art. *The Journal of Aesthetics and Art Criticism*, 51(3), 327-350.
- Dawkins, R. (1989). *The Selfish Gene*: Oxford University Press.
- De Smedt, J., & De Cruz, H. (2010). Toward an Integrative Approach of Cognitive Neuroscientific and Evolutionary Psychological Studies of Art. *Evolutionary Psychology*, 8(4), 695-719.
- (2012). Human artistic behaviour: adaptation, byproduct, or cultural group selection? *Philosophy of behavioral biology* (pp. 167-187): Springer.
- Deacon, H. J. (1992). Southern Africa and modern human origins. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, 337(1280), 177-183.
- Deacon, T. W. (1997). *The Symbolic Species: The Co-evolution of Language and the Brain*. New York: W.W. Norton & Company.
- Dediu, D., & Levinson, S. C. (2013). On the antiquity of language: the reinterpretation of Neandertal linguistic capacities and its consequences. *Frontiers in Psychology*, 4, 397.
- Deregowski, J. (1993). What about pictures? *Behavioral and Brain Sciences*, 16(04), 757-758.
- D'Errico, F. (1998). Palaeolithic origins of artificial memory systems: An evolutionary perspective. In C. Renfrew & C. Scarre (Eds.), *Cognition and Material Culture: The Archaeology of Symbolic Storage* (pp. 19-50): McDonald Institute for Archaeological Research.
- (2007). The origin of humanity and modern cultures: archaeology's view. *Diogenes*, 54(2), 122-133.
- (2008). Le rouge et le noir: implications of early pigment use in Africa, the Near East and Europe for the origin of cultural modernity. *South African Archaeological Society Goodwin Series*, 10, 168-174.
- D'Errico, F., García Moreno, R., & Rifkin, R. F. (2012). Technological, elemental and colorimetric analysis of an engraved ochre fragment from the Middle Stone Age levels of Klasies River Cave 1, South Africa. *Journal of Archaeological Science*, 39(4), 942-952.
- D'Errico, F., Henshilwood, C., Lawson, G., Vanhaeren, M., Tillier, A.-M., Soressi, M., et al. (2003). Archaeological evidence for the emergence of language, symbolism, and music—an alternative multidisciplinary perspective. *Journal of World Prehistory*, 17(1), 1-70.
- D'Errico, F., Henshilwood, C., & Nilssen, P. (2001). An engraved bone fragment from c. 70,000-year-old Middle Stone Age levels at Blombos Cave, South Africa: implications for the origin of symbolism and language. *Antiquity*, 75(288), 309-318.
- D'Errico, F., & Henshilwood, C. S. (2011). The origin of symbolically mediated behaviour. *Homo symbolicus: The dawn of language, imagination and spirituality*, 49-74.
- D'Errico, F., & Nowell, A. (2000). A New Look at the Brekhat Ram Figurine: Implications for the Origins of Symbolism. *Cambridge Archaeological Journal*, 10(1), 123-167.
- D'Errico, F., Salomon, H., Vignaud, C., & Stringer, C. (2010). Pigments from the Middle Palaeolithic levels of Es-Skhu (Mount Carmel, Israel). *Journal of Archaeological Science*, 37(12), 3099-3110.
- D'Errico, F., & Stringer, C. B. (2011). Evolution, revolution or saltation scenario for the emergence of modern cultures? *Philosophical Transactions of the Royal Society B: Biological Sciences*, 366(1567), 1060-1069.
- D'Errico, F., & Vanhaeren, M. (2007). Evolution or Revolution? New evidence for the origin of symbolic behaviour in and out of Africa. *Rethinking the Human Revolution*. (Chapter 23).
- D'Errico, F., Vanhaeren, M., Barton, N., Bouzougar, A., Mienis, H., Richter, D., et al. (2009). Additional evidence on the use of personal ornaments in the Middle Paleolithic of North Africa. *Proceedings of the National Academy of Sciences*, 106(38), 16051-16056.
- D'Errico, F., Vanhaeren, M., & Wadley, L. (2008). Possible shell beads from the Middle Stone Age layers of Sibudu Cave, South Africa. *Journal of Archaeological Science*, 35(10), 2675-2685.

## Bibliography

- D'Errico, F., & Villa, P. (1997). Holes and grooves: the contribution of microscopy and taphonomy to the problem of art origins. *Journal of Human Evolution*, 33(1), 1-31.
- D'Errico, F., Zilhão, J., Julien, M., Baffier, D., & Pelegrin, J. (1998). Neanderthal Acculturation in Western Europe? A Critical Review of the Evidence and Its Interpretation. *Current Anthropology*, 39(S1), S1-S44.
- Dissanayake, E. (1974). A hypothesis of the evolution of art from play. *Leonardo*, 211-217.
- (1979). An ethological view of ritual and art in human evolutionary history. *Leonardo*, 27-31.
- (1980). Art as a human behavior: Toward an ethological view of art. *The journal of aesthetics and art criticism*, 38(4), 397-406.
- (1982). Aesthetic Experience and Human Evolution. *The Journal of Aesthetics and Art Criticism*, 41(2), 145-155.
- (1990). *What is Art For?* : University of Washington Press.
- (1992). *Homo Aestheticus: Where Art Comes From and Why*. New York: The Free Press.
- (1999). Sociobiology and the Arts: Problems and Prospects. In J. B. Bedaux & B. Cooke (Eds.), *Sociobiology and the Arts* (pp. 27-42): Editions Rodopi.
- (2000). *Art and Intimacy: How the Arts Began*: University of Washington Press.
- (2007). What Art Is and What Art Does: An overview of Contemporary Evolutionary Hypotheses. In C. Martindale, P. Locher & V. M. Petrov (Eds.), *Evolutionary and neurocognitive approaches to aesthetics, creativity, and the arts* (pp. 1-14): Baywood Pub. Co.
- (2008). The Arts After Darwin: Does Art Have an Origin and Adaptive Function? In K. Zijlmans & W. van Damme (Eds.), *World Art Studies: Exploring Concepts and Approaches* (pp. 241-263). Amsterdam: Valiz.
- (2009). The artification hypothesis and its relevance to cognitive science, evolutionary aesthetics, and neuroaesthetics. *Cognitive Semiotics*, 9(5), 136-158.
- (2010). *The deep structure of Pleistocene rock art: The "artification hypothesis"*. Paper presented at the Pleistocene Art of the World, Tarascon-sur-Ariege, France.
- Dominy, N. J. (2004). Fruits, fingers, and fermentation: the sensory cues available to foraging primates. *Integrative and Comparative Biology*, 44(4), 295-303.
- Donald, M. (1991). *Origins of the Modern Mind: Three Stages in the Evolution of Culture and Cognition*: Harvard University Press.
- (1993). Precis of Origins of the modern mind: Three stages in the evolution of culture and cognition. *Behavioral and Brain Sciences*, 16(4), 737-747.
- Dor, D., & Jablonka, E. (2010). Plasticity and canalization in the evolution of linguistic communication: an evolutionary developmental approach. *The evolution of human language: Biolinguistic perspectives*, 135-147.
- Downs, G. W., & Jones, M. A. (2002). Reputation, compliance, and international law. *The Journal of Legal Studies*, 31(S1), S95-S114.
- Dowson, T. A., & Porr, M. (2001). Special objects—special creatures: shamanistic imagery and the Aurignacian art of south-west Germany. *The archaeology of shamanism*, 165-177.
- Drake, J. E., & Winner, E. (2010). Children Gifted in Drawing: Precocious Realists vs. Autism Spectrum Disorder. *Understanding Our Gifted*, 22(4), 19-21.
- Driscoll, C. (2006). The Bowerbirds and the Bees: Miller on Art, Altruism, and Sexual Selection. *Philosophical Psychology*, 19(4), 507-526.
- Dubreuil, L., & Grosman, L. (2009). Ochre and hide-working at a Natufian burial place. *Antiquity*, 83(322), 935.
- Dugatkin, L. A. (1992). Sexual selection and imitation: females copy the mate choice of others. *The American Naturalist*, 139(6), 1384-1389.
- (2002). Cooperation in animals: an evolutionary overview. *Biology and Philosophy*, 17(4), 459-476.
- Dugatkin, L. A., & Reeve, H. K. (1997). *Cooperation among animals: an evolutionary perspective*: Oxford University Press Oxford.
- Dunbar, R. (1992). Neocortex size as a constraint on group size in primates. *Journal of Human Evolution*, 22(6), 469-493.

- (1995). Neocortex size and group size in primates: a test of the hypothesis. *Journal of Human Evolution*, 28(3), 287-296.
- (1996a). *Grooming, gossip, and the evolution of language*: Harvard University Press.
- (1996b). Determinants of group size in primates: A general model.
- (1998). The Social Brain Hypothesis. *Evolutionary Anthropology*, 6(5), 178-190.
- (2004). Language, Music, and Laughter in Evolutionary Perspective. In K. D. Oller & U. Griebel (Eds.), *Evolution of Communication Systems: A Comparative Approach* (pp. 257-331): MIT Press.
- Dunbar, R., & Shultz, S. (2007). Evolution in the Social Brain. *Science*, 317, 1344-1347.
- Dusseldorp, G. (2012). Tracking the influence of Middle Stone Age technological change on modern human hunting strategies. *Quaternary International*, 270, 70-79.
- Dutton, D. (2009). *The Art Instinct: Beauty, Pleasure and Human Evolution*. New York: Bloomsbury Press.
- Efland, A. (2002). *Art and cognition: Integrating the visual arts in the curriculum*: Teachers College Press.
- Ehn, M. (2009). *On the causes and effects of specialization [Elektronisk resurs] : A mathematical approach*. Västerås: Mälardalens högskola.
- Eibl-Eibesfeldt, I. (1988). The biological foundation of aesthetics. *Beauty and the brain. Biological aspects of aesthetics*, 29-68.
- ([1975]1997). Human Ethology. Origins and Prospects of a New Discipline. In A. Schmitt, K. Atzwanger, K. Grammer & K. Schäfer (Eds.), *New Aspects of Human Ethology* (pp. 1-24). New York: Plenum Press.
- Einwögerer, T., Friesinger, H., Händel, M., Neugebauer-Maresch, C., Simon, U., & Teschler-Nicola, M. (2006). Upper Palaeolithic infant burials. *Nature*, 444(7117), 285-285.
- Eldredge, N. (1989). Punctuated equilibria, rates of change and large-scale entities in evolutionary systems. *Journal of Social and Biological Structures*, 12(2), 173-184.
- (2000). Biological and material cultural evolution: Are there any true parallels *Perspectives in Ethology* (Vol. 13, pp. 113-153).
- Elkins, J. (1996). On the Impossibility of Close Reading: The Case of Alexander Marshack. *Current Anthropology*, 37(2), 185-226.
- Ellis, L., Caran, S., Glascock, M., Tweedy, S., & Neff, H. (1997). Appendix H: Geochemical and mineralogical characterization of ochre from an archaeological context. In S. Black, L. Ellis, D. Creel & G. GT (Eds.), *Hot Rock Cooking on the Greater Edwards Plateau: Four Burned Rock Midden Sites in West Central Texas*: Texas Archeological Research Laboratory, University of Texas at Austin, Austin.
- Emler, N. (1990). A social psychology of reputation. *European review of social psychology*, 1(1), 171-193.
- Endicott, P., Ho, S. Y., & Stringer, C. (2010). Using genetic evidence to evaluate four palaeoanthropological hypotheses for the timing of Neanderthal and modern human origins. *Journal of Human Evolution*, 59(1), 87-95.
- Endler, J. A. (1993). Some General Comments on the Evolution and Design of Animal Communication Systems. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, 340(1292), 215-225.
- Engels, F. ([1884]2004). *The Origin of the Family, Private Property and the State, 1st edition published in 1884. Introduction by Pat Brewer*. Chippendale: Resistance Books.
- ([1876]2012). The role played by labor in the transition from ape to man *Dialectics of Nature* (pp. 172-186): Wellred Publications.
- Enquist, M., & Leimar, O. (1993). The evolution of cooperation in mobile organisms. *Animal Behaviour*, 45(4), 747-757.
- Erikson, E. H. (1966). Ontogeny of ritualization in man. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 251(772), 337-349.
- Erlanson, J. M. (2010). Ancient Immigrants: Archaeology and Maritime Migrations. *Migration History in World History: Multidisciplinary Approaches*, 3, 191.
- Everett, D. (2010). *Don't Sleep, There are Snakes: Life and Language in the Amazonian Jungle*: Profile.
- (2005). Biology and language: a consideration of alternatives. *Journal of Linguistics*, 41(01), 157-175

## Bibliography

- Fehl, K., van der Post, D. J., & Semmann, D. (2011). Co-evolution of behaviour and social network structure promotes human cooperation. *Ecology letters*, 14(6), 546-551.
- Fernandez, A. A., & Morris, M. R. (2007). Sexual Selection and Trichromatic Color Vision in Primates: Statistical Support for the Preexisting-Bias Hypothesis. *The American Naturalist*, 170(1), 10-20.
- Fessler, D. M., & Haley, K. J. (2003). The Strategy of Affect: Emotions in Human Cooperation In P. Hammerstein (Ed.), *Genetic and Cultural Evolution of Cooperation* (pp. 7-36): MIT Press.
- Fewell, J., Schmidt, S. K., & Taylor, T. (2009). Division of labor in the context of complexity. In E. O. Wilson (Ed.), *Organization of insect societies: from genome to sociocomplexity*. (pp. 483-502): Harvard University Press, Cambridge.
- Finnegan, R. (2002). *Communicating: The Multiple Modes of Human Interconnection*: Taylor & Francis.
- Fiore, D. (2008). Body Painting and Visual Practice: The Creation of Social Identities through Image Making and Display in Tierra del Fuego (Southern South America). In I. Domingo Sanz, D. Fiore & S. L. May (Eds.), *Archaeologies of Art: Time, Place, Identity* (pp. 243-266): Left Coast Press.
- Fitch, W. T. (2005a). The Evolution of Language: A comparative review. *Biology and Philosophy*, 20, 193-230.
- (2005b). The Evolution of Music in Comparative Perspective. *Annals of the New York Academy of Sciences*, 1060, 1-20.
- (2009). Fossil cues to the evolution of speech. In R. Botha & C. Knight (Eds.), *The cradle of language* (pp. 112-134): Oxford University Press.
- (2010). *The evolution of language*: Cambridge University Press.
- Fitch, W. T., Huber, L., & Bugnyar, T. (2010). Social cognition and the evolution of language: constructing cognitive phylogenies. *Neuron*, 65(6), 795-814.
- Formicola, V. (2007). From the Sunghir Children to the Romito Dwarf. *Current Anthropology*, 48(3), 446-453.
- Forster, P. (2004). Ice Ages and the mitochondrial DNA chronology of human dispersals: a review. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, 359(1442), 255-264.
- Frith, U., & Frith, C. (2010). The Social Brain: allowing humans to boldly go where no other species has been. *Phil. Trans. R. Soc. B*, 2010(365), 165-175.
- Fuentes, A. (1999). Re-evaluating Primate Monogamy. *American Anthropologist*, 100(4), 890-907.
- (2004). It's not all sex and violence: integrated anthropology and the role of cooperation and social evolution in human evolution. *American Anthropologist*, 106(4), 710-718.
- Gambetta, D. (2009). Signaling. *The Oxford Handbook of Analytical Sociology*, 168-194.
- Gamble, C. (1982). Interaction and alliance in Palaeolithic society. *Man*, 92-107.
- (1998). Palaeolithic society and the release from proximity: a network approach to intimate relations. *World Archaeology*, 29(3), 426-449.
- (1999). *The Palaeolithic Societies of Europe*: Cambridge University Press.
- Gamble, C., Gowlett, J. A., & Dunbar, R. (2011). The social brain and the shape of the Palaeolithic. *Cambridge Archaeological Journal*, 21(1), 115-135.
- Gándara, M. (1990). La analogía etnográfica como heurística: Lógica muestral, dominios ontológicos e historicidad. In Y. Sugiura & M. C. Serra (Eds.), *Etnoarqueología. Coloquio Bosch-Gimpera*: Instituto de Investigaciones Antropológicas UNAM.
- Gangestad, S. W., Haselton, M. G., & Buss, D. M. (2006). Evolutionary foundations of cultural variation: Evoked culture and mate preferences. *Psychological Inquiry*, 17(2), 75-95.
- Gangestad, S. W., & Simpson, J. A. (Eds.). (2007). *The Evolution of Mind: Fundamental Questions and Controversies*. New York: The Guilford Press.
- Gärdenfors, P. (2004). Cooperation and the Evolution of Symbolic Communication. In K. D. Oller & U. Griebel (Eds.), *Evolution of communication systems: A Comparative Approach* (pp. 237-256): MIT Press
- (2011). The role of indirect reciprocity and theory of mind in interpreting ornaments, commentary on C.S. Henshilwood and B. Dubreuil: "The Still Bay and Howiesons Poort, 77-59 ka". *Current Anthropology*, 52(3), 383-384.

- Gärdenfors, P., Brinck, I., & Osvath, M. (2012). The Tripod Effect: Co-evolution of Cooperation, Cognition and Communication *The Symbolic Species Evolved* (pp. 193-222): Springer.
- Gardner, H. (1987). *The Mind's New Science: A History Of The Cognitive Revolution*: Basic Books.
- Garson, J. G. (1886). On the Inhabitants of Tierra del Fuego. *The Journal of the Anthropological Institute of Great Britain and Ireland*, 15, 141-160.
- Gaskins, S. (2006). Cultural perspectives on infant-caregiver interaction. In N. J. Enfield & S. C. Levinson (Eds.), *The roots of human sociality: Culture, cognition, and human interaction* (pp. 279-298).
- Geary, D. C., Vigil, J., & Byrd-Craven, J. (2004). Evolution of human mate choice. *Journal of sex research*, 41(1), 27-42.
- Ghemis, C., Clottes, J., Gély, B., & Prud'Homme, F. (2011). An exceptional archaeological discovery: The 'art gallery' in Coliboaia Cave, Apuseni Mountains, Romania. *Acta Archaeologica Carpathica*, XLVI, 5-18.
- Gibson, K. R. (2011). Commentary on C.S. Henshilwood and B. Dubreuil: "The Still Bay and Howiesons Poort, 77-59 ka". *Current Anthropology*, 52(3), 384-385.
- (2012). Human tool-making capacities reflect increased information-processing capacities: Continuity resides in the eyes of the beholder. *Behavioral and Brain Sciences*, 35(04), 225-226.
- Gillespie-Lynch, K., Greenfield, P. M., Lyn, H., & Savage-Rumbaugh, S. (2011). The role of dialogue in the ontogeny and phylogeny of early symbol combinations: A cross-species comparison of bonobo, chimpanzee, and human learners. *First Language*, 31(4), 442-460.
- Gilligan, I. (2010). The Prehistoric development of clothing: Archaeological implications of a thermal model. *Journal of Archaeological Method and Theory*, 17(1), 15-80.
- Gilman, A. (1984). Explaining the Upper Palaeolithic Revolution. In M. Spriggs (Ed.), *Marxist Perspectives in Archaeology* (pp. 115-126): Cambridge University Press.
- Gimbutas, M. (1981). The " Monstrous Venus" of Prehistory of Goddess Creatix. *Comparative Civilizations Review*(7), 1-26.
- Gobbini, M. I., & Haxby, J. V. (2007). Neural systems for recognition of familiar faces. *Neuropsychologia*, 45(1), 32-41.
- Godfrey-Smith, P. (2013). Information and influence in sender-receiver models, with applications to animal behaviour. In U. Stegmann (Ed.), *Animal Communication Theory: Information and Influence* (pp. 377-396): Cambridge University Press.
- Gombrich, E. H. (1966). Ritualized gesture and expression in art. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 251(772), 393-401.
- (1995). *The Story of Art*: Prentice Hall PTR.
- Gonçalves, B., Perra, N., & Vespignani, A. (2011). Modeling users' activity on twitter networks: Validation of Dunbar's number. *PLoS one*, 6(8), e22656.
- González-Sainz, C., Ruiz-Redondo, A., Garate-Maidagan, D., & Iriarte-Avilés, E. (2013). Not only Chauvet: Dating Aurignacian rock art in Altxerri B Cave (northern Spain). *Journal of human evolution*, 65(4), 457-464.
- Gottschall, J. (2008). *The rape of Troy: Evolution, violence, and the world of Homer*: Cambridge University Press.
- Gottschall, J., Martin, J., Quish, H., & Rea, J. (2004). Sex differences in mate choice criteria are reflected in folktales from around the world and in historical European literature. *Evolution and Human Behavior*, 25(2), 102-112.
- Gould, S. J. (2002). *The Structure of Evolutionary Theory*. Cambridge: The Belknap Press of Harvard University Press.
- Gould, S. J., & Lewontin, R. (1979). The Spandrels of San Marco and the Panglossian Paradigm: A Critique of the Adaptationist Programme. *Proc. R. Soc. Lond. B*, 205, 581-598.
- Gould, S. J., & Lloyd, E. A. (1999). Individuality and adaptation across levels of selection: How shall we name and generalize the unit of Darwinism? *Proceedings of the National Academy of Sciences*, 96(21), 11904-11909.
- Grammer, K., Fink, B., Moller, A. P., & Thornhill, R. (2003). Darwinian aesthetics: sexual selection and the biology of beauty. *Biological Reviews*, 78, 385-407.
- Grand, P. M. (1967). *Prehistoric art: paleolithic painting and sculpture* (Vol. 3): New York Graphic Society.

## Bibliography

- Grove, M., & Coward, F. (2008). From individual neurons to social brains. *Cambridge Archaeological Journal*, 18(3), 387-400.
- Grove, M., Pearce, E., & Dunbar, R. I. (2012). Fission-fusion and the evolution of hominin social systems. *Journal of human evolution*, 62(2), 191-200.
- Gruber, T., Clay, Z., & Zuberbühler, K. (2010). A comparison of bonobo and chimpanzee tool use: evidence for a female bias in the *Pan* lineage. *Animal Behaviour*, 80(6), 1023-1033.
- Guilford, T., & Dawkins, M. S. (1991). Receiver psychology and the evolution of animal signals. *Animal Behaviour*, 42(1), 1-14.
- Guthrie, D. (2005). *The Nature of Paleolithic Art*. Chicago: The University of Chicago Press.
- Guthrie, D., & van Kolfschoten, T. (2000). Neither warm and moist, nor cold and arid: the ecology of the Mid Upper Palaeolithic. In W. Roebroeks (Ed.), *Hunters of the golden age: the mid Upper Palaeolithic of Eurasia, 30,000-20,000 BP* (pp. 13-20): Leiden University.
- Hahn, J. (1987). Aurignacian and Gravettian settlement patterns in Central Europe. In O. Soffer (Ed.), *The Pleistocene Old World: Regional Perspectives* (pp. 251-261): Plenum Press.
- Hamilton, M. J., Milne, B. T., Walker, R. S., Burger, O., & Brown, J. H. (2007). The complex structure of hunter-gatherer social networks. *Proceedings of the Royal Society B: Biological Sciences*, 274(1622), 2195-2203.
- Happé, F., & Vital, P. (2009). What aspects of autism predispose to talent? *Philosophical Transactions of the Royal Society B: Biological Sciences*, 364(1522), 1369-1375.
- Harris, M., & Ross, E. B. (1987). *Death, sex, and fertility: Population regulation in preindustrial and developing societies*: Columbia University Press New York.
- Hartley, R., & Vawser, A. M. W. (1998). Spatial behaviour and learning in the prehistoric environment of the Colorado River drainage (south-eastern Utah), western North America. In C. Chippindale & P. Taçon (Eds.), *The Archaeology of Rock-Art* (pp. 185-211): Cambridge University Press.
- Haselton, M. G., & Miller, G. F. (2006). Women's fertility across the cycle increases the short-term attractiveness of creative intelligence. *Human Nature*, 17(1), 50-73.
- Hawkes, K., & Bliege Bird, R. (2002). Showing off, handicap signaling, and the evolution of men's work. *Evolutionary Anthropology: Issues, News, and Reviews*, 11(2), 58-67.
- Hawkes, K., O'Connell, J. F., Blurton Jones, N. G., Alvarez, H., & Charnov, E. L. (2000). The grandmother hypothesis and human evolution. In L. Cronk, N. A. Chagnon & W. Irons (Eds.), *Adaptation and human behavior: An anthropological perspective* (pp. 237-260): Transaction Publishers.
- Haxby, J., Hoffman, E., & Gobbini, M. I. (2002). Human neural systems for face recognition and social communication. *Biological Psychiatry*, 51(1), 59-67.
- Hayden, B. (2012). Neandertal Social Structure? *Oxford Journal of Archaeology*, 31(1), 1-26.
- Heimbauer, Lisa A., Beran, Michael J., & Owren, Michael J. (2011). A Chimpanzee Recognizes Synthetic Speech with Significantly Reduced Acoustic Cues to Phonetic Content. *Current Biology*, 21(14), 1210-1214.
- Henshilwood, C S., & D'Errico, F. (2011). Middle Stone Age engravings and their significance to the debate on the emergence of symbolic material culture. *Homo Symbolicus: The dawn of language, imagination and spirituality*, 75-96.
- Henshilwood, C.S., D'Errico, F., Vanhaeren, M., van Niekerk, K., & Jacobs, Z. (2004). Middle Stone Age Shell Beads from South Africa. *Science*, 304(5669), 404.
- Henshilwood, C.S., D'Errico, F., van Niekerk, K. L., Coquinot, Y., Jacobs, Z., Lauritzen, S.-E., et al. (2011). A 100,000-year-old ochre-processing workshop at Blombos Cave, South Africa. *Science*, 334(6053), 219-222.
- Henshilwood, C. S., D'Errico, F., & Watts, I. (2009). Engraved ochres from the Middle Stone Age levels at Blombos Cave, South Africa. *Journal of Human Evolution*, 57(1), 27-47.
- Henshilwood, C. S., d'Errico, F., Yates, R., Jacobs, Z., Tribolo, C., Duller, G. A., et al. (2002). Emergence of modern human behavior: Middle Stone Age engravings from South Africa. *Science*, 295(5558), 1278-1280.
- Henshilwood, C S., & Dubreuil, B. (2011). The Still Bay and Howiesons Poort, 77–59 ka: Symbolic Material Culture and the Evolution of the Mind during the African Middle Stone Age. *Current Anthropology*, 52(3), 361-400.

- Henshilwood, C.S., & Marean, C.W. (2003). The origin of modern human behavior. *Current Anthropology*, 44(5), 627-651.
- Herrmann, E., Call, J., Hernández-Lloreda, M. V., Hare, B., & Tomasello, M. (2007). Humans have evolved specialized skills of social cognition: the cultural intelligence hypothesis. *Science*, 317(5843), 1360-1366.
- Hersey, G. L. (1996). *The Evolution of Allure: Sexual Selection from the Medici Venus to the Incredible Hulk*. Cambridge, Massachusetts: The MIT Press.
- Heyes, C. (2012). New thinking: the evolution of human cognition. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1599), 2091-2096.
- Higham, T., Basell, L., Jacobi, R., Wood, R., Ramsey, C. B., & Conard, N. J. (2012). Testing models for the beginnings of the Aurignacian and the advent of figurative art and music: The radiocarbon chronology of Geißenklösterle. *Journal of human evolution*, 62(6), 664-676.
- Higham, T., Compton, T., Stringer, C., Jacobi, R., Shapiro, B., Trinkaus, E., et al. (2011). The earliest evidence for anatomically modern humans in northwestern Europe. *Nature*, 479(7374), 521-524.
- Hill, E. L. (2001). Non-specific nature of specific language impairment: a review of the literature with regard to concomitant motor impairments. *International Journal of Language & Communication Disorders*, 36(2), 149-171.
- Hill, R. A., & Dunbar, R. I. (2003). Social network size in humans. *Human nature*, 14(1), 53-72.
- Hiraiwa-Hasegawa, M. (2000). The sight of the peacock's tail makes me sick: The early arguments on sexual selection. *Journal of Biosciences*, 25(1), 11-18.
- Hirn, Y. (1900). *The Origins of Art: A Psychological and Sociological Inquiry*. London: MacMillan & Co.
- Hodgson, D. (2006). Altered states of consciousness and palaeoart: An alternative neurovisual explanation. *Cambridge Archaeological Journal*, 16(01), 27-37.
- Holland, D. C., & Valsiner, J. (1988). Cognition, Symbols, and Vygotsky's Developmental Psychology. *Ethos*, 16(3), 247-272.
- Holveck, M.-J., & Riebel, K. (2010). Low-quality females prefer low-quality males when choosing a mate. *Proceedings of the Royal Society B: Biological Sciences*, 277(1678), 153-160.
- Honour, H., & Fleming, J. (2005). *A World History of Art*: Laurence King.
- Hopkinson, T., Nowell, A., & White, M. (2013). Life Histories, Metapopulation Ecology, and Innovation in the Acheulian. *PaleoAnthropology*, 61, 76.
- Horan, R. D., Bulte, E., & Shogren, J. F. (2005). How trade saved humanity from biological exclusion: An economic theory of Neanderthal extinction. *Journal of Economic Behavior & Organization*, 58(1), 1-29.
- Hovers, E., Shimon, I., Bar-Yosef, O., & Vandermeersch, B. (2003). An Early Case of Color Symbolism: Ochre Use by Modern Humans in Qafzeh Cave. *Current Anthropology*, 44(4), 491-522.
- Howell, F. C. (1999). Paleo-demes, species clades, and extinctions in the Pleistocene hominin record. *Journal of Anthropological Research*, 191-243.
- Howitt, A. W. (1889). Notes on Australian message sticks and messengers. *The Journal of the Anthropological Institute of Great Britain and Ireland*, 18, 314-332.
- Hrdy, S. B. (2009). *Mothers and others: The evolutionary origins of mutual understanding*: Harvard University Press.
- Hublin, J.-J. (2012). The earliest modern human colonization of Europe. *Proceedings of the National Academy of Sciences*, 109(34), 13471-13472.
- (2013). The Makers of the Early Upper Paleolithic in Western Eurasia. In F. H. Smith & J. C. Ahern (Eds.), *The Origins of Modern Humans: Biology Reconsidered* (pp. 223-252): John Wiley & Sons.
- Humphrey, N. (1998). Cave art, autism, and the evolution of the human mind. *Cambridge Archaeological Journal*, 8, 165-191.
- Hunter, L. A., & Leahey, E. (2010). Parenting and research productivity: New evidence and methods. *Social Studies of Science*, 40(3), 433-451.
- Huxley, J. (1966). *A discussion on ritualization of behaviour in animals and man*: Royal Society.
- Ingold, T. (1993). Tool-use, sociality and intelligence. In K. R. Gibson & T. Ingold (Eds.), *Tools, language and cognition in human evolution* (pp. 429-445).
- (1996). The optimal forager and economic man. In P. Descola & G. Palsson (Eds.), *Nature and society: Anthropological perspectives* (pp. 25-44): Routledge.

## Bibliography

- (1998). Culture, nature, environment: steps to an ecology of life. *Mind, Brain and the Environment (Linacre Lectures 1995-1996)*. Oxford University Press, Oxford.
- (1999). On the social relations of the hunter-gatherer band. In R. B. Lee & R. H. Daly (Eds.), *The Cambridge encyclopedia of hunters and gatherers* (pp. 399-410): Cambridge University Press.
- (2000). *The perception of the environment: essays on livelihood, dwelling and skill*: Routledge.
- (2006). Against Human Nature. In N. Gontier, J.P. van Bendegem & D. Aerts (Eds.), *Evolutionary Epistemology, Language and Culture* (pp. 259-350): Springer.
- (2007). Materials against materiality. *Archaeological dialogues*, 14(01), 1-16.
- Ingold, T., & Lucas, R. (2007). The 4 A's (Anthropology, Archaeology, Art and Architecture): Reflections on a teaching and learning experience. In M. Harris (Ed.), *Ways of Knowing: New Approaches in the Anthropology of Experience and Learning* (pp. 287-305): Berghahn Books.
- Irons, W. (2001). Religion as a Hard-to-Fake Sign of Commitment. In R. Nesse (Ed.), *Evolution and the Capacity for Commitment* (pp. 292-309): Russell Sage Foundation.
- Isaac, G. (1978). The food-sharing behavior of protohuman hominids. *Scientific American*, 238(4), 90-108.
- Jablonka, E., & Lamb, M. (2005). *Evolution in Four Dimensions: Genetic, Epigenetic, Behavioral, and Symbolic Variation in the History of Life*: MIT Press.
- Jacobs, Z., Roberts, R. G., Galbraith, R. F., Deacon, H. J., Grün, R., Mackay, A., et al. (2008). Ages for the Middle Stone Age of southern Africa: implications for human behavior and dispersal. *Science*, 322(5902), 733-735.
- Jeanson, R., Fewell, J. H., Gorelick, R., & Bertram, S. M. (2007). Emergence of increased division of labor as a function of group size. *Behavioral Ecology and Sociobiology*, 62(2), 289-298.
- Jochim, M. (1983). Palaeolithic cave art in ecological perspective. *Hunter-gatherer economy in prehistory*, 212-219.
- Johanson, D., & Wong, K. (2009). *Lucy's legacy: The quest for human origins*: Harmony Books.
- Johnstone, R. A. (2009). The Evolution of Animal Signals. In J. R. Krebs & N. B. Davies (Eds.), *Behavioural Ecology: An Evolutionary Approach* (pp. 155-178): John Wiley & Sons.
- Jones, A. G., & Ratterman, N. L. (2009). Mate Choice and Sexual Selection: What have we learned since Darwin? *PNAS*, 106(suppl.1), 10001-10008.
- Jones, D. (1995). Sexual Selection, Physical Attractiveness, and Facial Neoteny: Cross-cultural evidence and implications. *Current Anthropology*, 36(5), 723-748.
- Jöris, O., & Street, M. (2008). At the end of the 14C time scale--the Middle to Upper Paleolithic record of western Eurasia. *Journal of Human Evolution*, 55(5), 782-802.
- Kaplan, H. (1996). A theory of fertility and parental investment in traditional and modern human societies. *American journal of physical anthropology*, 101(S23), 91-135.
- Kaplan, H., & Bock, J. (2001). Fertility theory: The embodied capital theory of human life history evolution. In N. J. Smelser & P. B. Baltes (Eds.), *The international encyclopedia of the social and behavioral sciences* (pp. 5561-5568).
- Kaplan, H., Gangestad, S., Gurven, M., Lancaster, J., Mueller, T., & Robson, A. (2007). The evolution of diet, brain and life history among primates and humans. In W. Roebroeks (Ed.), *Guts and Brains: An Integrative Approach to the Hominin Record* (pp. 47-90): Leiden University Press.
- Kaplan, H., & Hill, K. (1985). Food Sharing Among Ache Foragers: Tests of Explanatory Hypotheses. *Current Anthropology*, 26(2), 223-246.
- Kaplan, H., Hill, K., Lancaster, J., & Hurtado, A. M. (2000). A theory of human life history evolution: Diet, intelligence, and longevity. *Evolutionary Anthropology: Issues, News, and Reviews*, 9(4), 156-185.
- Kaplan, H., Lancaster, J., & Robson, A. (2003). Embodied capital and the evolutionary economics of the human life span. *Population and Development Review*, 152-182.
- Kellogg, R. (1970). Understanding children's art. *Readings in developmental psychology today*. Del Mar, CA: CRM.



- Ketelaar, T., & Ellis, B. J. (2000). Are Evolutionary Explanations Unfalsifiable? *Evolutionary Psychology and the Lakatosian Philosophy of Science. Psychological Inquiry*, 11(1), 1-21.
- Klein, R. G., & Edgar, B. (2002). *The Dawn of Human Culture*: Wiley.
- Knappett, C. (2011). *Thinking through material culture: an interdisciplinary perspective*: University of Pennsylvania Press.
- (2013). *Network Analysis in Archaeology: New Approaches to Regional Interaction*: Oxford University Press.
- Knight, C. (1995). *Blood relations: Menstruation and the origins of culture*: Yale University Press.
- (2009). Language, ochre and the rule of law. In R. Botha & C. Knight (Eds.), *The cradle of language* (pp. 281-303): Oxford University Press.
- Knight, C., Power, C., & Watts, I. (1995). The Human Symbolic Revolution: A Darwinian Account. *Cambridge Archaeological Journal*, 5(01), 75-114.
- Kohn, M., & Mithen, S. (1999). Handaxes: Products of Sexual Selection? *Antiquity*, 73, 518-526.
- Kokko, H., Brooks, R., Jennions, M. D., & Morley, J. (2003). The Evolution of Mate Choice and Mating Biases. *Proceedings of the Royal Society of London Series B*, 270, 653-664.
- Kokko, H., Jennions, M. D., & Brooks, R. (2006). Unifying and Testing Models of Sexual Selection. *Annual Review of Ecology, Evolution, and Systematics*, 37, 43-66.
- Kölbl, S. (2009). Ich, wir und die anderen: Kleidung und Schmuck als Statement. In S. Rau, N. D. & B. M. (Eds.), *Eiszeit Kunst und Kultur* (pp. 167-175): Thorbecke.
- Kosse, K. (1990). Group size and societal complexity: Thresholds in the long-term memory. *Journal of Anthropological Archaeology*, 9(3), 275-303.
- Kozłowski, J. K., & Otte, M. (2000). La formation de l'Aurignacien en Europe. *L'Anthropologie*, 104(1), 3-15.
- Krause, J., Fu, Q., Good, J. M., Viola, B., Shunkov, M. V., Derevianko, A. P., et al. (2010). The complete mitochondrial DNA genome of an unknown hominin from southern Siberia. *Nature*, 464(7290), 894-897.
- Krebs, J. R., & Dawkins, R. (1984). Animal signals: mind-reading and manipulation. *Behavioural Ecology: an evolutionary approach*, 2, 380-402.
- Kuhn, S. L., & Stiner, M. C. (1998). Middle Palaeolithic 'Creativity': Reflections on an Oxymoron? In S. Mithen (Ed.), *Creativity in Human Evolution and Prehistory* (pp. 143-164): Routledge.
- (2001a). Ornaments of the Earliest Upper Paleolithic: New Insights from the Levant. *Proceedings of the National Academy of Sciences*, 98(13), 7641-7646.
- (2001b). The antiquity of hunter-gatherers. In C. Panter-Brick, R. Layton & P. Rowley-Conwy (Eds.), *Hunter-gatherers: an interdisciplinary perspective* (pp. 99-142): Cambridge University Press.
- (2006). What's a Mother to Do? *Current Anthropology*, 47(6), 953-981.
- (2007a). Body ornamentation as information technology: towards an understanding of the significance of early beads. In P. Mellars (Ed.), *Rethinking the human revolution* (pp. 45-54): McDonald Institute for Archaeological Research.
- (2007b). Paleolithic ornaments: implications for cognition, demography and identity. *Diogenes*, 54(2), 40-48.
- Kuhn, S. L., Stiner, M. C., Reese, D. S., & Güleç, E. (2001). Ornaments of the earliest Upper Paleolithic: New insights from the Levant. *Proceedings of the National Academy of Sciences*, 98(13), 7641-7646.
- Laland, K. N., Odling-Smee, J., Hoppitt, W., & Uller, T. (2012). More on how and why: cause and effect in biology revisited. *Biology & Philosophy*, 1-27.
- Lancy, D. F., & Grove, A. (2010). The Role of Adults in Children's Learning In D. F. Lancy, J. C. Bock & S. Gaskins (Eds.), *The anthropology of learning in childhood* (pp. 145-180).
- Landau, M. (1991). *Narratives of Human Evolution*: Yale University Press.
- Langbroek, M. (2012). Trees and ladders: A critique of the theory of human cognitive and behavioural evolution in Palaeolithic archaeology. *Quaternary International*, 270, 4-14.
- Langejans, G. H., van Niekerk, K. L., Dusseldorp, G. L., & Thackeray, J. F. (2012). Middle Stone Age shellfish exploitation: Potential indications for mass collecting and resource intensification at Blombos Cave and Klasies River, South Africa. *Quaternary International*, 270, 80-94.

## Bibliography

- Langley, M. C., Clarkson, C., & Ulm, S. (2008). Behavioural complexity in Eurasian Neanderthal populations: a chronological examination of the archaeological evidence. *Cambridge Archaeological Journal*, 18(03), 289-307.
- Larson, B. (2009). Darwin's Sexual Selection and the Jealous Male in *Fin-de-Siècle* Art. In B. Larson & F. Brauer (Eds.), *The Art of Evolution: Darwin, Darwinism, and Visual Culture* (pp. 173-193). Lebanon, NH: Dartmouth College Press.
- Latour, B. (2007). Can we get our materialism back, please? *Isis*, 98(1), 138-142.
- Layton, R. (1989). The political use of Australian Aboriginal body painting and its archaeological implications. In I. Hodder (Ed.), *The Meanings of Things: Material Culture and Symbolic Expression* (pp. 1-11). London: Unwin Hyman.
- (1991). *The anthropology of art*: Cambridge University Press.
- (1992). *Australian Rock Art: A New Synthesis*: Cambridge University Press.
- Leahey, E. (2006). Gender differences in productivity research specialization as a missing link. *Gender & Society*, 20(6), 754-780.
- Lenain, T. (1999). Animal Aesthetics and Human Art. In J. B. Bedaux & B. Cooke (Eds.), *Sociobiology and the Arts* (pp. 239-251). Amsterdam: Editions Rodopi.
- Leroi-Gourhan, A. ([1964]1993). *Gesture and speech*: MIT Press.
- Levine, L. J., & Edelman, R. S. (2009). Emotion and memory narrowing: A review and goal-relevance approach. *Cognition & Emotion*, 23(5), 833-875.
- Levine, M. H. (1957). Prehistoric Art and Ideology1. *American Anthropologist*, 59(6), 949-964.
- Levins, R. (1985). *The dialectical biologist*: Harvard University Press.
- Levinson, J. (1979). Defining Art Historically. *The British Journal of Aesthetics* 19(3), 232-250.
- (2002). The Irreducible Historicity of the Concept of Art. *British Journal of Aesthetics*, 42(4), 367-379.
- Levinson, S. C. (2000). Language as nature and language as art. *Changing concepts of nature and the turn of the millennium*, 257-287.
- (2012). The original sin of cognitive science. *Topics in cognitive science*, 4(3), 396-403.
- Lewis-Williams, D. (1995). Modelling the production and consumption of rock art. *The South African Archaeological Bulletin*, 143-154.
- (2002). *The Mind in the Cave. Consciousness and the Origins of Art*. London: Thames & Hudson.
- Little, A. C., Burriss, R. P., Jones, B. C., DeBruine, L. M., & Caldwell, C. A. (2008). Social influence in human face preference: men and women are influenced more for long-term than short-term attractiveness decisions. *Evolution and Human Behavior*, 29(2), 140-146.
- Lorenz, K. Z. (1966). Evolution of ritualization in the biological and cultural spheres. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 251(772), 273-284.
- (1981). *The Foundations of Ethology*. New York: Springer-Verlag.
- Lowe, J. J. (2001). *Climatic Oscillations during the Last Glacial Cycle: Nature, Causes and the Case for Synchronous Effects*. Paper presented at the Biology and Environment: Proceedings of the Royal Irish Academy.
- Ludmany, A. (1999). The Adaptive Role of the Aesthetic Experience: An Epistemological Approach. In J. B. Bedaux & B. Cooke (Eds.), *Sociobiology and the Arts* (pp. 223-237). Amsterdam: Rodopi.
- Luria, A. ([1967]2002). LS Vygotsky and the problem of functional localization. *Journal of Russian and East European Psychology*, 40(1), 17-25.
- Luria, A., & Vygotsky, L. S. (1992). *Ape, Primitive Man, and Child: Essays in the history of behavior*. London: Harvester Wheatsheaf.
- Lycett, S. J. (2008). Acheulean variation and selection: does handaxe symmetry fit neutral expectations? *Journal of Archaeological Science*, 35(9), 2640-2648.
- MacDonald, K. (2007). Cross-cultural Comparison of Learning in Human Hunting. *Human Nature*, 18, 386-402.
- Madden, J. R., & Balmford, A. (2004). Spotted bowerbirds *Chlamydera maculata* do not prefer rare or costly bower decorations. *Behavioral Ecology and Sociobiology*, 55(6), 589-595.

- Madden, J. R., & Tanner, K. (2003). Preferences for coloured bower decorations can be explained in a nonsexual context. *Animal Behaviour*, 65(6), 1077-1083.
- Mahner, M., & Bunge, M. (1997). *Foundations of Biophilosophy*: Springer.
- Malafouris, L. (2004). The cognitive basis of material engagement: where brain, body and culture conflate. In E. DeMarrais & C. Renfrew (Eds.), *Rethinking materiality: the engagement of mind with the material world* (pp. 53-61): McDonald Institute for Archaeological Research.
- (2008a). At the potter's wheel: an argument for material agency *Material agency* (pp. 19-36): Springer.
- (2008b). Beads for a plastic mind: the 'Blind Man's Stick' (BMS) hypothesis and the active nature of material culture. *Cambridge Archaeological Journal*, 18(03), 401-414.
- Mania, D., & Mania, U. (1998). Geräte aus Holz von der altpaläolithischen Fundstelle bei Bilzingsleben. *Præhistoria Thuringica*, 2, 32-72.
- Marean, C. W., Bar-Matthews, M., Bernatchez, J., Fisher, E., Goldberg, P., Herries, A. I., et al. (2007). Early human use of marine resources and pigment in South Africa during the Middle Pleistocene. *Nature*, 449(7164), 905-908.
- Marlowe, F. W. (2005). Hunter-gatherers and human evolution. *Evolutionary Anthropology: Issues, News, and Reviews*, 14(2), 54-67.
- Marshack, A. (1972). Upper Paleolithic notation and symbol. *Science*, 178, 817-828.
- (1976). Some Implications of the Paleolithic Symbolic Evidence for the Origin of Language. *Annals of the New York Academy of Sciences*, 280(1), 289-311.
- (1991). The Tai Plaque and calendrical notation in the Upper Palaeolithic. *Cambridge Archaeological Journal*, 1(1), 25-61.
- Martínez, I., Arsuaga, J. L., Quam, R., Carretero, J. M., Gracia, A., & Rodríguez, L. (2008). Human hyoid bones from the middle Pleistocene site of the Sima de los Huesos (Sierra de Atapuerca, Spain). *Journal of Human Evolution*, 54(1), 118-124.
- Martínez, I., Rosa, M., Arsuaga, J.-L., Jarabo, P., Quam, R., Lorenzo, C., et al. (2004). Auditory capacities in Middle Pleistocene humans from the Sierra de Atapuerca in Spain. *Proceedings of the National Academy of Sciences of the United States of America*, 101(27), 9976-9981.
- Marwick, B. (2003). Pleistocene exchange networks as evidence for the evolution of language. *Cambridge Archaeological Journal*, 13(1), 67-81.
- Massey, W. C. (1949). Tribes and languages of Baja California. *Southwestern Journal of Anthropology*, 272-307.
- Masson, J. (2006). Apollo 11 Cave in Southwest Namibia: Some Observations on the Site and Its Rock Art. *The South African Archaeological Bulletin*, 61(183), 76-89.
- Mather, J. A. (2004). Cephalopod skin displays: from concealment to communication. *Evolution of communication systems*, 193-214.
- Matsuzawa, T. (2009). Symbolic representation of number in chimpanzees. *Current opinion in neurobiology*, 19(1), 92-98.
- Maturana, H. R. (1980). *Autopoiesis and Cognition*. Dordrecht: D. Reidel Publishing Company.
- Mayberry, R. I. (2010). Early Language Acquisition and Adult Language Ability: What Sign Language Reveals About the Critical. *The Oxford handbook of deaf studies, language, and education*, 2, 281-291.
- Mayr, E. (1961). Cause and Effect in Biology. *Science*, 134(10), 1501-1506.
- (1984). What is Darwinism Today? *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 2, 145-156.
- McBrearty, S., & Brooks, A. S. (2000). The revolution that wasn't: a new interpretation of the origin of modern human behavior. *Journal of Human Evolution*, 39(5), 453-563.
- McBrearty, S., & Stringer, C. (2007). The coast in colour. *Nature*, 449(7164), 793-794.
- McDermott, J., & Hauser, M. (2005). The origins of music: Innateness, uniqueness, and evolution. *Music Perception: An interdisciplinary journal*, 23(1), 29-59.
- McDermott, L. (1996). Self-representation in Upper Paleolithic female figurines. *Current Anthropology*, 37(2), 227-275.
- McElreath, R., Boyd, R., & Richerson, P. (2003). Shared Norms Can Lead to the Evolution of Ethnic Markers. *Current Anthropology*, 44(1), 122-130.

## Bibliography

- Meillassoux, C. (1972). From reproduction to production: A Marxist approach to economic anthropology. *Economy and Society*, 1(1), 93-105.
- Mellars, P. (1996). *The Neanderthal legacy: an archaeological perspective from western Europe*: Princeton University Press.
- (2004). Neanderthals and the modern human colonization of Europe. *Nature*, 432(7016), 461-465.
- (2005). The impossible coincidence. A single-species model for the origins of modern human behavior in Europe. *Evolutionary Anthropology: Issues, News, and Reviews*, 14(1), 12-27.
- Mellars, P., & Gibson, K. R. (1996). *Modelling the early human mind*: McDonald Institute for Archaeological Research, University of Cambridge.
- Mery, F., Varela, S. A., Danchin, É., Blanchet, S., Parejo, D., Coolen, I., et al. (2009). Public versus personal information for mate copying in an invertebrate. *Current Biology*, 19(9), 730-734.
- Miall, D. S., & Dissanayake, E. (2003). The poetics of babytalk. *Human nature*, 14(4), 337-364.
- Milbrath, C. (1998). *Patterns of artistic development in children: Comparative studies of talent*: Cambridge University Press.
- Miller, G. (1997). Mate choice: From sexual cues to cognitive adaptations. In G. R. Bock & G. Cardew (Eds.), *Characterizing Human Psychological Adaptations* (Vol. Ciba Foundation Symposium, pp. 71-87). New York: J. Wiley & Sons.
- (1998). How Mate Choice Shaped Human Nature: A Review of Sexual Selection and Human Evolution. In C. Crawford & D. L. Krebs (Eds.), *Handbook of Evolutionary Psychology: Ideas, Issues and Applications* (pp. 87-129): Laurence Erlbaum Associates.
- (1999). Sexual Selection for Cultural Displays. In R. Dunbar, C. Knight & C. Power (Eds.), *The Evolution of Culture* (pp. 71-91). Edinburgh: Edinburgh University Press.
- (2000a). *The Mating Mind: How sexual choice shaped the evolution of human nature*. London: Heinemann.
- (2000b). Mental Traits as Fitness Indicators. Expanding Evolutionary Psychology's Adaptationism. *Annals of the New York Academy of Sciences*, 907, 62-74.
- (2001). Aesthetic fitness: How sexual selection shaped artistic virtuosity as a fitness indicator and aesthetic preferences as mate choice criteria. *Bulletin of Psychology and the Arts*, 2(1), 20-25.
- (2009). *Spent: Sex, Evolution and the Secrets of Consumerism*: William Heinemann.
- Miller, G. A. (2003). The cognitive revolution: a historical perspective. *Trends in Cognitive Sciences*, 7(3), 141-144.
- Mithen, S. J. (1988a). Looking and learning: Upper Palaeolithic art and information gathering. *World Archaeology*, 19(3), 297-327.
- (1988b). To Hunt or to Paint: Animals and Art in the Upper Palaeolithic. *Man, New Series*, 23(4), 671-695.
- (1990). *Thoughtful Foragers: A Study of Prehistoric Decision Making*: Cambridge University Press.
- (1996a). *The prehistory of the mind: the cognitive origins of art, religion and science*: Thames and Hudson.
- (1996b). The Origin of Art: Natural Signs, Mental Modularity, and Visual Symbolism. In H. Donald & G. Maschner (Eds.), *Darwinian Archaeologies* (pp. 197-217). New York, NY: Plenum Press.
- (1996c). On Early Palaeolithic "Concept-Mediated Marks," Mental Modularity, and the Origins of Art. *Current Anthropology*, 37(4), 666-670.
- (1998a). Introduction: The Archaeological Study of Human Creativity. In S. Mithen (Ed.), *Creativity in Human Evolution and Prehistory* (pp. 1-15): Routledge.
- (1998b). A Creative Explosion? Theory of Mind, Language and the Disembodied Mind of the Upper Palaeolithic. In S. Mithen (Ed.), *Creativity in Human Evolution and Prehistory* (pp. 165-191): Routledge.

- (2000a). Mind, brain and material culture: An archaeological perspective. In P. Carruthers & A. Chamberlain (Eds.), *Evolution and the Human Mind: Modularity, Language and Meta-cognition* (pp. 207-217): Cambridge University Press.
- (2000b). Comment to D'Errico, F. & A. Nowell. *Cambridge Archaeological Journal*, 10(1), 149-151.
- (2001). The Evolution of Imagination: An Archaeological Perspective. *SubStance*, 30(94/95), 28-54.
- (2003). Handaxes: The First Aesthetic Artefacts. In E. Voland & K. Grammer (Eds.), *Evolutionary Aesthetics*. Heidelberg: Springer.
- (2005). *The singing Neanderthals: The origins of music, language, mind, and body*: Harvard University Press.
- (2007). Seven Steps in the Evolution of the Human Imagination. In I. Roth (Ed.), *Imaginative Minds* (pp. 3-29): Oxford University Press for The British Academy.
- (2009). The Music Instinct. *Annals of the New York Academy of Sciences*, 1169(1), 3-12.
- Mithen, S., & Parsons, L. (2008). The brain as a cultural artefact. *Cambridge archaeological journal*, 18(03), 415-422.
- Moll, H., & Tomasello, M. (2007). Cooperation and human cognition: the Vygotskian intelligence hypothesis. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 362(1480), 639-648.
- Morell, V. (1995). The earliest art becomes older—and more common. *Science*, 267(5206), 1908-1909.
- Morley, I. (2003). *The evolutionary origins and archaeology of music*. Unpublished Darwin College Research Report, Cambridge University.
- Moro Abadía, O., & González Morales, M. R. (2010). Redefining Neanderthals and Art: An Alternative Interpretation of the Multiple Species Model for the Origin of Behavioural Modernity. *Oxford Journal of Archaeology*, 29(3), 229-243.
- Morphy, H. (1999). Traditional and modern visual art of hunting and gathering peoples (pp. 441-448): Cambridge: Cambridge University Press.
- Morris, D. (1962). *The Biology of Art: A study of the picture-making behaviour of the great apes and its relationship to human art*. London: Methuen & Co.
- Morris, R. (2010). *A Shroud of Ochre*: GRIN Verlag.
- Morriss-Kay, G. M. (2010). The evolution of human artistic creativity. *Journal of Anatomy*, 216(2), 158-176.
- Myers, F. R. (1988). Critical trends in the study of hunter-gatherers. *Annual Review of Anthropology*, 261-282.
- Naguib, M., & Riebel, K. (2006). Bird song: a key model in animal communication. *Encyclopaedia of Language and Linguistics*, 2, 40-53.
- Nettle, D., & Dunbar, R. (1997). Social Markers and the Evolution of Reciprocal Exchange. *Current Anthropology*, 38(1), 93-99.
- Niewoehner, W. A. (2001). Behavioral inferences from the Skhul/Qafzeh early modern human hand remains. *Proceedings of the National Academy of Sciences*, 98(6), 2979-2984.
- Noble, W., & Davidson, I. (1996). *Human Evolution, Language and Mind. A Psychological and Archaeological Inquiry*. Cambridge: Cambridge University Press.
- Nowak, M. A., & Sigmund, K. (1998). Evolution of indirect reciprocity by image scoring. *Nature*, 393(6685), 573-577.
- Nowell, A. (2006). From A Paleolithic Art to Pleistocene Visual Cultures. *Journal of Archaeological Method and Theory*, 13(4), 239-249.
- (2010). Defining behavioral modernity in the context of Neandertal and anatomically modern human populations. *Annual Review of Anthropology*, 39, 437-452.
- Nowell, A., & Chang, M. L. (2009). The Case Against Sexual Selection as an Explanation of Handaxe Morphology. *PaleoAnthropology*, 2009, 77-88.
- Olson, S. (2002). *Mapping Human History: Discovering the Past Through Our Genes*: Houghton Mifflin Company.
- Otte, D. (1974). Effects and functions in the evolution of signaling systems. *Annual Review of Ecology and Systematics*, 5, 385-417.

## Bibliography

- Panksepp, J. (1998). *Affective neuroscience: The foundations of human and animal emotions*: Oxford University Press.
- (2005). Affective consciousness: Core emotional feelings in animals and humans. *Consciousness and cognition*, 14(1), 30-80.
- Panksepp, J., & Panksepp, J. B. (2000). The seven sins of evolutionary psychology. *Evolution and Cognition*, 6(2), 108-131.
- Pathou-Mathis, M. (2000). Neanderthal subsistence behaviour in Europe. *International Journal of Osteoarchaeology*, 10, 379-395.
- Pawlowski, B. (1999). Loss of oestrus and concealed ovulation in human evolution: The case against the sexual-selection hypothesis. *Current Anthropology*, 40(3), 257-276.
- Pettitt, P. (2008). Art and the Middle-to-Upper Paleolithic transition in Europe: Comments on the archaeological arguments for an early Upper Paleolithic antiquity of the Grotte Chauvet art. *Journal of human evolution*, 55(5), 908-917.
- Pettitt, P., & Bahn, P. (2003). Current problems in dating Palaeolithic cave art: Candamo and Chauvet. *Antiquity*, 77(295), 134-141.
- Pfeiffer, J. E. (1982). *The creative explosion: an inquiry into the origins of art and religion*: Harper & Row.
- Pievani, T., & Serrelli, E. (2011). Exaptation in human evolution: how to test adaptive vs exaptive evolutionary hypotheses. *Journal of Anthropological Sciences*, 89, 9-23.
- Pike, A. W., Hoffmann, D., García-Diez, M., Pettitt, P. B., Alcolea, J., De Balbin, R., et al. (2012). U-series dating of Paleolithic art in 11 caves in Spain. *Science*, 336(6087), 1409-1413.
- Pinker, S. (1994). *The Language Instinct: The New Science of Language and Mind*. Allen Lane: Penguin Press.
- Pinker, S. (1997). *How the mind works*. : NY: Norton.
- (2010). The cognitive niche: Coevolution of intelligence, sociality, and language. *Proceedings of the National Academy of Sciences*, 107(Supplement 2), 8993-8999.
- Plavcan, J. M., & van Schaik, C. P. (1997). Intrasexual competition and body weight dimorphism in anthropoid primates. *American Journal of Physical Anthropology*, 103(1), 37-68.
- Pokorny, J. J., & de Waal, F. B. (2009). Monkeys recognize the faces of group mates in photographs. *Proceedings of the National Academy of Sciences*, 106(51), 21539-21543.
- Porr, M. (2010). Palaeolithic art as cultural memory: A case study of the Aurignacian art of Southwest Germany. *Cambridge Archaeological Journal*, 20(01), 87-108.
- Posner, M. I., Petersen, S. E., Fox, P. T., & Raichle, M. E. (1988). Localization of cognitive operations in the human brain. *Science*, 240(4859), 1627-1631.
- Powell, A., Shennan, S., & Thomas, M. G. (2009). Late Pleistocene Demography and the Appearance of Modern Human Behavior. *Science*, 324(5932), 1298-1301.
- Power, C. (1999). 'Beauty Magic': The Origins of Art. In R. Dunbar, C. Knight & C. Power (Eds.), *The Evolution of Culture* (pp. 92-112). Edinburgh: Edinburgh University Press.
- (2004). Women in prehistoric art. In G. Berghaus (Ed.), *New perspectives on prehistoric art*, (pp. 75-103): Greenwood Publishing Group.
- (2009). 14 Sexual selection models for the emergence of symbolic communication: why they should be reversed. In R. Botha & C. Knight (Eds.), *The cradle of language* (pp. 257-280): Oxford University Press.
- Prickett, C. A., & Moore, R. S. (1991). The use of music to aid memory of Alzheimer's patients. *Journal of Music Therapy*, 28(2), 101-110.
- Prum, R. O. (2012). Aesthetic evolution by mate choice: Darwin's really dangerous idea. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1600), 2253-2265.
- Ramachandran, V. S., & Hirstein, W. (1999). The science of art: A neurological theory of aesthetic experience. *Journal of consciousness Studies*, 6(6-7), 6-7.
- Rappaport, R. A. (1971). The Sacred in Human Evolution. *Annu. Rev. Ecol. Syst.*, 2, 23-44.
- (1999). *Ritual and Religion in the Making of Humanity*: Cambridge University Press.
- Rau, S., Naumann D., Barth M., Mühleis Y., & C., B. (Eds.). (2009). *Eiszeit: Kunst und Kultur*: Thorbecke.

- Read, D. W. (2002). A multitrajectory, competition model of emergent complexity in human social organization. *Proceedings of the National Academy of Sciences of the United States of America*, 99(Suppl 3), 7251-7256.
- Read, D. W., LeBlanc, S. A., Ammerman, A. J., Bayard, D., Bertram, J. B., Borillo, M., et al. (1978). Descriptive Statements, Covering Laws, and Theories in Archaeology [and Comments and Reply]. *Current Anthropology*, 307-335.
- Reader, S. M., Hager, Y., & Laland, K. N. (2011). The evolution of primate general and cultural intelligence. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 366(1567), 1017-1027.
- Regier, T., Kay, P., & Cook, R. S. (2005). Focal colors are universal after all. *Proceedings of the National Academy of Sciences of the United States of America*, 102(23), 8386-8391.
- Reich, D., Green, R. E., Kircher, M., Krause, J., Patterson, N., Durand, E. Y., et al. (2010). Genetic history of an archaic hominin group from Denisova Cave in Siberia. *Nature*, 468(7327), 1053-1060.
- Renfrew, C. (1993). Cognitive archaeology: some thoughts on the archaeology of thought. *Cambridge Archaeological Journal*, 3(2), 248-250.
- Renfrew, C., & Bahn, P. G. (1996). *Archaeology: Theories, Methods, and Practice*: Thames and Hudson.
- Renfrew, C., & Scarre, C. (1998). *Cognition and material culture: the archaeology of symbolic storage*: McDonald Institute for Archaeological Research.
- Reynolds, S. C., & Gallagher, A. (2012). *African genesis: perspectives on hominin evolution* (Vol. 62): Cambridge University Press.
- Richerson, P., Boyd, R., & Henrich, J. (2003). Human Cooperation. In P. Hammerstein (Ed.), *Genetic and cultural evolution of cooperation* (pp. 357-388): MIT Press.
- Riel-Salvatore, J., & Gravel-Miguel, C. (2013). Upper Palaeolithic Mortuary Practices in Eurasia: A Critical Look at the Burial Record. In S. Tarlow & L. Nilsson Stutz (Eds.), *The Oxford Handbook of the Archaeology of Death and Burial* (Chapter 17): Oxford University Press.
- Rifkin, R. F. (2012). Processing ochre in the Middle Stone Age: Testing the inference of prehistoric behaviours from actualistically derived experimental data. *Journal of Anthropological Archaeology*, 31(2), 174-195.
- Rilling, J. K. (2008). Neuroscientific approaches and applications within anthropology. *American Journal of Physical Anthropology*, 137(S47), 2-32.
- Rilling, J. K., Gutman, D. A., Zeh, T. R., Pagnoni, G., Berns, G. S., & Kilts, C. D. (2002). A Neural Basis for Social Cooperation. *Neuron*, 35(2), 395-405.
- Rival, L. (1996). Blowpipes and spears: the social significance of Huaorani technological choices. In P. Descola & G. Palsson (Eds.), *Nature and Society: Anthropological Perspectives*, (pp. 145-164). London: Routledge.
- Rival, L., Slater, D., & Miller, D. (1998). Sex and Sociality Comparative Ethnographies of Sexual Objectification. *Theory, culture & society*, 15(3), 295-321.
- Robbins, L. H., Campbell, A. C., BROOK, G., & Murphy, M. L. (2007). World's Oldest Ritual Site? The Python Cave at Tsodilo Hills World Heritage Site, Botswana. *Nyame akuma*(67), 2-6.
- Roberson, D., Davidoff, J., Davies, I. R. L., & Shapiro, L. R. (2005). Color categories: Evidence for the cultural relativity hypothesis. *Cognitive Psychology*, 50(4), 378-411.
- Roberts, S. G., Dunbar, R. I., Pollet, T. V., & Kuppens, T. (2009). Exploring variation in active network size: Constraints and ego characteristics. *Social Networks*, 31(2), 138-146.
- Rodd, F. H., Hughes, K. A., Grether, G. F., & Baril, C. T. (2002). A possible non-sexual origin of mate preference: are male guppies mimicking fruit? *Proceedings of the Royal Society of London. Series B: Biological Sciences*, 269(1490), 475-481.
- Roebroeks, W. (2008). Time for the Middle to Upper Paleolithic transition in Europe. *Journal of Human Evolution*, 55(5), 918-926.
- (2010). *The Silence of the Stones: On the Archaeological Record for (Neanderthal) Language*. Paper presented at the The Evolution of Language: Proceedings of the 8th International Conference (EVOLANG8), Utrecht, Netherlands, 14-17 April 2010.
- Roebroeks, W., Sier, M. J., Nielsen, T. K., De Loecker, D., Parés, J. M., Arps, C. E., et al. (2012). Use of red ochre by early Neandertals. *Proceedings of the National Academy of Sciences*, 109(6), 1889-1894.

## Bibliography

- Roebroeks, W., & Verpoorte, A. (2009). A "language-free" explanation for differences between the European Middle and Upper Paleolithic Record. In R. Botha & C. Knight (Eds.), *The Cradle of Language* (pp. 150-166): Oxford University Press.
- Rosenberg, A. (2001). How is Biological Explanation Possible? *The British Journal for the Philosophy of Science*, 52(4), 735-760.
- Ross, J., & Davidson, I. (2006). Rock art and ritual: an archaeological analysis of rock art in arid central Australia. *Journal of Archaeological Method and Theory*, 13(4), 304-340.
- Rossano, M. J. (2010). Making friends, making tools, and making symbols. *Current Anthropology*, 51(S1), S89-S98.
- Rossiter, J. R. (1982). Visual imagery: applications to advertising. *Advances in consumer research*, 9(1), 101-106.
- Rostan, S. M., Pariser, D., & Gruber, H. E. (2002). A cross-cultural study of the development of artistic talent, creativity and giftedness. *High Ability Studies*, 13(2), 125-155.
- Rowe, W. P. (1930). Review: The Origin of Prehistoric Art. *Man*, 30, 6-9.
- Ryan, L. ([1934]1996). *The Aboriginal Tasmanians*: Allen & Unwin.
- Sackett, J. R. (1986). Isochrestism and style: A clarification. *Journal of Anthropological Archaeology*, 5(3), 266-277.
- Sacks, O. ([1985]2011). *The Man Who Mistook His Wife for a Hat*: Pan Macmillan.
- Sadier, B., Delannoy, J.-J., Benedetti, L., Boursès, D. L., Jaillet, S., Geneste, J.-M., et al. (2012). Further constraints on the Chauvet cave artwork elaboration. *Proceedings of the National Academy of Sciences*, 109(21), 8002-8006.
- Sarnecki, J., & Sponheimer, M. (2002). Why Neanderthals hate poetry: A critical notice of Steven Mithen's *The prehistory of mind*. *Philosophical Psychology*, 15(2), 173-184.
- Sayer, A. (2000). *Realism and social science*: Sage.
- Schaafsma, P. (1980). *Indian Rock Art of the Southwest*: School of American Research; Albuquerque : University of New Mexico Press.
- Schiffer, M. B. (1999). Behavioral archaeology: Some clarifications. *American Antiquity*, 166-168.
- Schildkrout, E. (2004). Inscribing the body. *Annual Review of Anthropology*, 319-344.
- Schmahmann, J. D. (2004). Disorders of the cerebellum: ataxia, dysmetria of thought, and the cerebellar cognitive affective syndrome. *The Journal of Neuropsychiatry and Clinical Neurosciences*, 16(3), 367-378.
- Schmitt, D. P. (2005). Sociosexuality from Argentina to Zimbabwe: A 48-nation study of sex, culture, and strategies of human mating. *Behavioral and Brain Sciences*, 28(2), 247-274.
- Scholz, C. A., Johnson, T. C., Cohen, A. S., King, J. W., Peck, J. A., Overpeck, J. T., et al. (2007). East African megadroughts between 135 and 75 thousand years ago and bearing on early-modern human origins. *Proceedings of the National Academy of Sciences*, 104(42), 16416-16421.
- Scott-Phillips, T. C. (2008). Defining biological communication. *Journal of evolutionary biology*, 21(2), 387-395.
- Semmann, D., Krambeck, H.-J., & Milinski, M. (2004). Strategic investment in reputation. *Behavioral Ecology and Sociobiology*, 56(3), 248-252.
- Shea, J. J. (2011). Homo sapiens is as Homo sapiens was. *Current Anthropology*, 52(1), 1-35.
- Shea, N. (2012). New thinking, innateness and inherited representation. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1599), 2234-2244.
- Shennan, S. (2001). Demography and cultural innovation: a model and its implications for the emergence of modern human culture. *Cambridge Archaeological Journal*, 11(1), 5-16.
- Short, R. V. (1976). The evolution of human reproduction. *Proceedings of the Royal Society of London. Series B. Biological Sciences*, 195(1118), 3-24.
- Shultz, S., Nelson, E., & Dunbar, R. I. (2012). Hominin cognitive evolution: identifying patterns and processes in the fossil and archaeological record. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1599), 2130-2140.
- Singh, D. (2002). Female mate value at a glance: Relationship of waist-to-hip ratio to health, fecundity and attractiveness. *Neuroendocrinology Letters*, 23(Suppl. 4), 81-91.



- Sinha, C. (2004). The Evolution of Language: From signals, to symbols, to system. In D. K. Oller & U. Griebel (Eds.), *Evolution of Communication Systems: A comparative approach* (pp. 217-236): The MIT Press.
- (2009). Language as a biocultural niche and social institution. *New directions in cognitive linguistics*, 24, 289.
- Smith, C. U. M. (2005). Evolutionary neurobiology and aesthetics. *Perspectives in biology and medicine*, 48(1), 17-30.
- Smith, E. A. (2003). Human Cooperation: Perspectives from Behavioral Ecology. In P. Hammerstein (Ed.), *Genetic and cultural evolution of cooperation* (pp. 401-428): MIT Press.
- Snodgrass, J. J., & Leonard, W. R. (2009). Neandertal Energetics Revisited: Insights Into Population Dynamics and Life History Evolution. *PaleoAnthropology*, 220-237.
- Soffer, O., Adovasio, J. M., & Hyland, D. C. (2000). The “Venus” figurines. *Current Anthropology*, 41(4), 511-537.
- Soffer, O., & Conkey, M. W. (1997). Studying ancient visual cultures. *Beyond art: Pleistocene image and symbol*, 1-16.
- Solomon, A. (1992). Gender, representation, and power in San ethnography and rock art. *Journal of Anthropological Archaeology*, 11(4), 291-329.
- Soressi, M., & D'Errico, F. (2007). Pigments, gravures, parures: Les comportements symboliques controversés des Néandertaliens. *Les Néandertaliens: biologie et cultures*, 297-309.
- Soriano, S., Villa, P., & Wadley, L. (2007). Blade technology and tool forms in the Middle Stone Age of South Africa: the Howiesons Poort and post-Howiesons Poort at Rose Cottage Cave. *Journal of Archaeological Science*, 34(5), 681-703.
- Sperber, D. (1975). *Rethinking Symbolism*: Cambridge University Press.
- Sporns, O. (2010). *Networks of the Brain*: Mit Press.
- Stasch, R. (2009). *Society of Others: Kinship and Mourning in a West Papuan Place*: University of California Press.
- Sterelny, K. (2010). Minds: extended or scaffolded? *Phenomenology and the Cognitive Sciences*, 9(4), 465-481.
- (2011). From hominins to humans: how sapiens became behaviourally modern. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 366(1566), 809-822.
- (2012). Language, gesture, skill: the co-evolutionary foundations of language. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1599), 2141-2151.
- Sterelny, K., & Griffiths, P. E. (1999). *Sex and Death. An Introduction to Philosophy of Biology*: The University of Chicago Press.
- Stiner, M. C., & Kuhn, S. L. (2006). Changes in the ‘connectedness’ and resilience of Paleolithic societies in Mediterranean ecosystems. *Human Ecology*, 34(5), 693-712.
- Stout, D., Toth, N., Schick, K., & Chaminade, T. (2008). Neural correlates of Early Stone Age toolmaking: technology, language and cognition in human evolution. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 363(1499), 1939-1949.
- Stringer, C. (1999). Has Australia backdated the human revolution? *Antiquity*, 73(282), 876-879.
- (2002). Modern human origins: progress and prospects. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, 357(1420), 563-579.
- (2011). *The origin of our species*: Penguin UK.
- (2012). Evolution: What makes a modern human. *Nature*, 485(7396), 33-35.
- Stuart-Fox, D., & Moussalli, A. (2008). Selection for social signalling drives the evolution of chameleon colour change. *PLoS biology*, 6(1), e25.
- Stymne, A.-K. (2009). Theoretic and Empirical Studies of Division of Labor and Specialization: an interdisciplinary survey. In M. Ehn (Ed.), *On the Causes and Effects of Specialization: a mathematical treatment*. Eskilstuna: Stockholm University.
- Surovell, T. A., Byrd Finley, J., Smith, G. M., Brantingham, P. J., & Kelly, R. (2009). Correcting temporal frequency distributions for taphonomic bias. *Journal of Archaeological Science*, 36(8), 1715-1724.
- Suzuki, S., & Akiyama, E. (2005). Reputation and the evolution of cooperation in sizable groups. *Proceedings of the Royal Society B: Biological Sciences*, 272(1570), 1373-1377.

## Bibliography

- Takahashi, M., Arita, H., Hiraiwa-Hasegawa, M., & Hasegawa, T. (2008). Peahens do not prefer peacocks with more elaborate trains. *Animal Behaviour*, 75(4), 1209-1219.
- Tátá, F., Cascalheira, J., Marreiros, J., Pereira, T., & Bicho, N. (2014). Shell bead production in the Upper Paleolithic of Vale Boi (SW Portugal): an experimental perspective. *Journal of Archaeological Science*, 42, 29-41.
- Tattersall, I. (2009). Human origins: out of Africa. *Proceedings of the National Academy of Sciences*, 106(38), 16018-16021.
- Taylor, T. (1996). *The Prehistory of Sex: Four Million Years of Human Sexual Culture*: Fourth Estate.
- Tëmkin, I., & Eldredge, N. (2007). Phylogenetics and material cultural evolution. *Current Anthropology*, 48(1), 146-154.
- Ter Keurs, P. (2006). *Condensed Reality: A Study of Material Culture ; Case Studies from Siassi (Papua New Guinea) and Enggano (Indonesia)*: Amsterdam University Press.
- Testart, A., Forbis, R. G., Hayden, B., Ingold, T., Perlman, S. M., Pokotylo, D. L., et al. (1982). The Significance of Food Storage Among Hunter-Gatherers: Residence Patterns, Population Densities, and Social Inequalities [and Comments and Reply]. *Current Anthropology*, 523-537.
- Texier, P.-J., Porraz, G., Parkington, J., Rigaud, J.-P., Poggenpoel, C., Miller, C., et al. (2010). A Howiesons Poort tradition of engraving ostrich eggshell containers dated to 60,000 years ago at Diepkloof Rock Shelter, South Africa. *Proceedings of the National Academy of Sciences*, 107(14), 6180-6185.
- Thieme, H. (1997). Lower Palaeolithic hunting spears from Germany. *Nature*, 385(6619), 807-810.
- Thornhill, R. (2003). Darwinian Aesthetics Informs Traditional Aesthetics. In E. Volland & K. Grammer (Eds.), *Evolutionary Aesthetics* (pp. 9-35). Heidelberg: Springer.
- Tibbetts, E. A., & Dale, J. (2007). Individual recognition: it is good to be different. *Trends in Ecology & Evolution*, 22(10), 529-537.
- Tinbergen, N. (1963). On aims and methods of Ethology. *Zeitschrift für Tierpsychologie*, 20, 410-433.
- Todd, P. M., Penke, L., Fasolo, B., & Lenton, A. P. (2007). Different cognitive processes underlie human mate choices and mate preferences. *Proceedings of the National Academy of Sciences*, 104(38), 15011-15016.
- Todorov, A., Gobbini, M. I., Evans, K. K., & Haxby, J. V. (2007). Spontaneous retrieval of affective person knowledge in face perception. *Neuropsychologia*, 45(1), 163-173.
- Tomasello, M. (2008). *Origins of Human Communication*. Cambridge, MA: The MIT Press.
- Tomasello, M., & Carpenter, M. (2007). Shared Intentionality. *Developmental Science*, 10(1), 121-125.
- 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, 675-691
- Tomasello, M., & Herrmann, E. (2010). Ape and Human Cognition What's the Difference? *Current Directions in Psychological Science*, 19(1), 3-8.
- Tomasello, M., Kruger, A. C., & Ratner, H. H. (1993). Cultural learning. *Behavioral and Brain Sciences*, 16(03), 495-511.
- Tomasello, M., Melis, A. P., Tennie, C., Wyman, E., & Herrmann, E. (2012). Two Key Steps in the Evolution of Human Cooperation. *Current Anthropology*, 53(6), 673-692.
- Tomasello, M., & Vaish, A. (2013). Origins of human cooperation and morality. *Annual review of psychology*, 64, 231-255.
- Tooby, J., & Cosmides, L. (1992). The Psychological Foundations of Culture In J. Barkow, L. Cosmides & J. Tooby (Eds.), *The Adapted Mind: Evolutionary Psychology and the Generation of Culture* (pp. 19-136): Oxford University Press.
- (2001). Does Beauty Build Adapted Minds? Towards an Evolutionary Theory of Aesthetics, Fiction and the Arts. *SubStance*, 94/95, 6-27.
- Toups, M. A., Kitchen, A., Light, J. E., & Reed, D. L. (2011). Origin of Clothing Lice Indicates Early Clothing Use by Anatomically Modern Humans in Africa. *Molecular Biology and Evolution*, 28(1), 29-32.
- Trigger, B. G. (1967). Engels on the part played by labour in the transition from ape to man: An anticipation of contemporary anthropological theory. *Canadian Review of Sociology/Revue canadienne de sociologie*, 4(3), 165-176.

- Trinkaus, E. (2005). Early modern humans. *Annu. Rev. Anthropol.*, 34, 207-230.
- (2007). Human Evolution: Neandertal Gene Speaks out. *Current Biology*, 17(21), R917-R919.
- Trivers, R. (1972). Parental investment and sexual selection. In 'Sexual Selection and the Descent of Man'. (Ed. B. Campbell.) pp. 136–179. *Aldinc: Chicago*.
- Turner, D. (2007). *Making Prehistory: Historical Science and the Scientific Realism Debate*: Cambridge University Press.
- Turner, T. S. (2012). The social skin. *Journal of Ethnographic Theory*, 2(2), 486-504.
- Ulmer Museum (2013). *The return of the Lion Man: History, Myth, Magic*: Thorbecke.
- Ulrich, R. S. (1986). Human responses to vegetation and landscapes. *Landscape and urban planning*, 13, 29-44.
- van Damme, W. (1996). *Beauty in Context: Towards an Anthropological Approach to Aesthetics*. Leiden: E.J. Brill.
- (2001). Transcultural Aesthetics and the Study of Beauty. In G. Marchiano & R. Milani (Eds.), *Frontiers of Transculturality in Contemporary Aesthetics*, (pp. 51-70): Trauben.
- (2003). Anthropologies of Art. *International Journal of Anthropology*, 18(4), 231-244.
- (2006). World aesthetics: evolution, culture and reflection. *Compression vs expression: explaining and containing the world's art*, 151-187.
- (2008). Introducing World Art Studies. In K. Zijlmans & W. van Damme (Eds.), *World Art Studies: Exploring Concepts and Approaches* (pp. 23-61). Amsterdam: Valiz.
- van Damme, W., & Zijlmans, K. (2012). Art history and visual studies in Europe: Transnational discourses and national frameworks. *Brill's Studies on Art, Art History, and Intellectual History*, 214(4), 217-229.
- van der Post, D. J., & Hogeweg, P. (2008). Diet traditions and cumulative cultural processes as side-effects of grouping. *Animal Behaviour*, 75(1), 133-144.
- van der Post, D. J., & Semmann, D. (2011). Patch depletion, niche structuring and the evolution of cooperative foraging. *Evolutionary biology*, 11(1), 335.
- van Schaik, C., & Dunbar, R. (1990). The evolution of monogamy in large primates: a new hypothesis and some crucial tests. *Behaviour*, 30-62.
- van Schaik, C., & Pradhan, G. (2003). A model for tool-use traditions in primates: Implications for the coevolution of culture and cognition. *Journal of Human Evolution*, 44(6), 645-664.
- van Schaik, C., Ancrenaz, M., Borgen, G., Galdikas, B., Knott, C. D., Singleton, I., et al. (2003). Orangutan cultures and the evolution of material culture. *Science*, 299(5603), 102-105.
- van Schaik, C., & Burkart, J. M. (2011). Social learning and evolution: the cultural intelligence hypothesis. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 366(1567), 1008-1016.
- Vanhaeren, M. (2005). Speaking with beads: the evolutionary significance of personal ornaments. In F. D'Errico & L. Backwell (Eds.), *From tools to symbols: From early hominids to modern humans* (pp. 525-553): Wits University Press.
- Vanhaeren, M., & d'Errico, F. (2006). Aurignacian ethno-linguistic geography of Europe revealed by personal ornaments. *Journal of Archaeological Science*, 33(8), 1105-1128.
- Vanhaeren, M., D'Errico, F., Stringer, C., James, S. L., Todd, J. A., & Mienis, H. K. (2006). Middle Paleolithic Shell Beads in Israel and Algeria. *Science*, 312(5781), 1785-1788.
- Vanhaeren, M., d'Errico, F., van Niekerk, K. L., Henshilwood, C. S., & Erasmus, R. M. (2013). Thinking strings: additional evidence for personal ornament use in the Middle Stone Age at Blombos Cave, South Africa. *Journal of human evolution*, 64(6), 500-517.
- Veblen, T. ([1899]2000). *The Theory of the Leisure Class*: Amereon House.
- Velo, J. (1984). Ochre as medicine: a suggestion for the interpretation of the archaeological record. *Current Anthropology Chicago*, III., 25(5).
- (1986). The problem of ochre. *Mankind quarterly*, 26(3-4), 229-237.
- Verpoorte, A. (2005). The first modern humans in Europe? A closer look at the dating evidence from the Swabian Jura (Germany). *Antiquity*, 79(304), 269-279.
- Verpooten, J., & Nelissen, M. (2010). Sensory exploitation and cultural transmission: the late emergence of iconic representations in human evolution. *Theory in Biosciences*, 129(2-3), 211-221.
- Vygotsky, L. S. (1971). *The Psychology of Art*. Cambridge, MA: MIT Press.

## Bibliography

- ([1930]1978). *Mind in society* (M. Cole, V. John-Steiner, S. Scribner, & E. Souberman, Eds.): Cambridge, MA: Harvard University Press.
- (1986). Thought and Language (newly revised and edited by Alex Kozulin). *Massachusetts: The Massachusetts Institute of Technology*.
- Wade, N. (2009). *The faith instinct: How religion evolved and why it endures*: Penguin.
- Wadley, L. (2001). What is cultural modernity? A general view and a South African perspective from Rose Cottage Cave. *Cambridge Archaeological Journal*, 11(2), 201-221.
- (2005). Putting ochre to the test: replication studies of adhesives that may have been used for hafting tools in the Middle Stone Age. *Journal of Human Evolution*, 49(5), 587-601.
- (2007). Announcing a Still Bay industry at Sibudu Cave, South Africa. *Journal of Human Evolution*, 52(6), 681-689.
- Wadley, L., Williamson, B., & Lombard, M. (2004). Ochre in hafting in Middle Stone Age southern Africa: a practical role. *World Archaeology*, 26, 19-34.
- Wartofsky, M. W. (1980). Art, Artworlds, and Ideology. *The Journal of Aesthetics and Art Criticism*, 38(3), 239-247.
- Watts, I. (1999). The origin of symbolic culture. *The evolution of culture*, 113-146.
- (2002). Ochre in the Middle Stone Age of Southern Africa: Ritualised display or hide preservative? *The South African Archaeological Bulletin*, 1-14.
- (2009). Red ochre, body painting, and language: Interpreting the Blombos ochre. In R. Botha & C. Knight (Eds.), *The Cradle of Language* (pp. 62-92): Oxford University Press.
- Weiner, A. B. (1992). *Inalienable Possessions: The Paradox of Keeping-While-Giving*: University of California Press.
- Wendt, W. E. (1976). 'Art Mobilier' from the Apollo 11 Cave, South West Africa: Africa's Oldest Dated Works of Art. *The South African Archaeological Bulletin*, 31(121/122), 5-11.
- Whallon, R. (2006). Social Networks and Information: Non-'utilitarian' mobility among hunter-gatherers. *Journal of Anthropological Archaeology*, 25(2), 259-270.
- White, R. (1982). Rethinking the Middle/Upper Paleolithic Transition [and Comments and Replies]. *Current Anthropology*, 169-192.
- (1989). Production complexity and standardization in early Aurignacian bead and pendant manufacture: Evolutionary implications. In P. Mellars & C. Stringer (Eds.), *The human revolution: Behavioural and biological perspectives on the origins of modern humans* (pp. 366-390): Edinburgh University Press.
- (1992). Beyond art: toward an understanding of the origins of material representation in Europe. *Annual Review of Anthropology*, 21, 537-564.
- (1993). Technological and Social Dimensions of 'Aurignacian-age' Body Ornaments across Europe. In H. Knecht, A. Pike-Tay & R. K. White (Eds.), *Before Lascaux: The Complex Record of the Early Upper Paleolithic* (pp. 277-299): CRC Press.
- (1996). Comment on: Elkins, J. "On the Impossibility of Close Reading". *Current Anthropology*, 37(2), 218-220.
- (1997). Substantial acts: From materials to meaning in Upper Paleolithic representation. *Beyond art: Pleistocene image and symbol*, 93-121.
- (2001). Personal ornaments from the Grotte du Renne at Arcy-sur-Cure. *Athena Review*, 2(4), 41-46.
- (2003). *Prehistoric art: the symbolic journey of mankind*: Harry N. Abrams.
- (2007). Systems of Personal Ornamentation in the Early Upper Palaeolithic: Methodological Challenges and New Observations. In P. Mellars, K. Boyle, O. Bar-Yosef & C. Stringer (Eds.), *Rethinking the Human Revolution: New Behavioural and Biological Perspectives on the Origin and Dispersal of Modern Humans* (pp. 287-302): McDonald Institute for Archaeological Research.
- White, R., Arts, N., Bahn, P. G., Binford, L. R., Dewez, M., Dibble, H. L., et al. (1982). Rethinking the Middle/Upper Paleolithic Transition [and Comments and Replies]. *Current Anthropology*, 23(2), 169-192.

- White, R., Mensan, R., Bourrillon, R., Cretin, C., Higham, T. F., Clark, A. E., et al. (2012). Context and dating of Aurignacian vulvar representations from Abri Castanet, France. *Proceedings of the National Academy of Sciences*, 109(22), 8450-8455.
- White, T. D., Asfaw, B., DeGusta, D., Gilbert, H., Richards, G. D., Suwa, G., et al. (2003). Pleistocene *homo sapiens* from middle Awash, Ethiopia. *Nature*, 423(6941), 742-747.
- Whiten, A., & Erdal, D. (2012). The human socio-cognitive niche and its evolutionary origins. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 367(1599), 2119-2129.
- Wiessner, P. (1983). Style and Social Information in Kalahari San Projectile Points. *American Antiquity*, 48(2), 253-276.
- (1984). Reconsidering the behavioral basis for style: A case study among the Kalahari San. *Journal of Anthropological Archaeology*, 3(3), 190-234.
- Wilkins, J. (2010). Style, Symboling, and Interaction in Middle Stone Age Society. *vis-à-vis: Explorations in Anthropology*, 10(1), 102-125.
- Wilkowski, B. M., & Chai, C. A. (2012). Explicit person memories constrain the indirect reciprocation of prosocial acts. *Journal of Experimental Social Psychology*, 48(5), 1037-1046.
- Wobst, H. M. (1974). Boundary conditions for Paleolithic social systems: A simulation approach. *American Antiquity*, 147-178.
- (1976). Locational relationships in Paleolithic society. *Journal of Human Evolution*, 5(1), 49-58.
- (1977). Stylistic Behavior and Information Exchange. In C. E. Cleland (Ed.), *For the Director: Research essays in honor of James B. Griffin*. Ann Arbor, MI: Museum of Anthropology, University of Michigan.
- Wood, B., & Richmond, B. G. (2000). Human evolution: taxonomy and paleobiology. *Journal of Anatomy*, 197(1), 19-60.
- Wood, W., & Eagly, A. H. (2002). A Cross-Cultural Analysis of the Behavior of Women and Men: Implications for the Origins of Sex Differences. *Psychological Bulletin*, 128(5), 699-727.
- Woolfson, C. (1982). *The Labour Theory of Culture: A Re-examination of Engels's Theory of Human Origins*: Routledge & Kegan Paul.
- Wrangham, R. W. (2009). *Catching Fire: How Cooking Made Us Human*: Basic Books.
- Wreschner, E. E., Bolton, R., Butzer, K. W., Delporte, H., Häusler, A., Heinrich, A., et al. (1980). Red Ochre and Human Evolution: A Case for Discussion [and Comments and Reply]. *Current Anthropology*, 21(5), 631-644.
- Wynn, T., Coolidge, F., & Bright, M. (2009). Hohlenstein-Stadel and the evolution of human conceptual thought. *Cambridge Archaeological Journal*, 19(01), 73-84.
- Zaadstra, B. M., Seidell, J. C., Van Noord, P., te Velde, E. R., Habbema, J., Vrieswijk, B., et al. (1993). Fat and female fecundity: prospective study of effect of body fat distribution on conception rates. *British medical journal*, 306(6876), 484.
- Zahavi, A. (1975). Mate Selection - a Selection for a Handicap. *Journal of Theoretical Biology*, 53(1), 205-214.
- Zahavi, A., & Zahavi, A. (1997). *The Handicap Principle: A Missing Piece of Darwin's Puzzle*.: Oxford University Press.
- Zaidel, D. W. (2010). Art and brain: insights from neuropsychology, biology and evolution. *Journal of Anatomy*, 216(2), 177-183.
- Zajonc, R. B. (1980). Feeling and thinking: Preferences need no inferences. *American psychologist*, 35(2), 151.
- (1984). On the primacy of affect. *American psychologist*, 39(2), 117-123.
- (2000). Feeling and thinking: closing the debate over the independence of affect. In J. P. Forgas (Ed.), *Feeling and thinking: the role of affect in social cognition*: Cambridge University Press.
- Zeki, S. (1999). *Inner vision: an exploration of art and the brain*: Oxford University Press.
- Zijlmans, K. (2008). The Discourse on Contemporary Art and the Globalization of the Art System. In K. Zijlmans & W. van Damme (Eds.), *World Art Studies: Exploring Concepts and Approaches* (pp. 135-150). Amsterdam: Valiz.
- Zilhão, J. (2007). The Emergence of Ornaments and Art: An Archaeological Perspective on the Origins of "Behavioral Modernity". *Journal of Archaeological Research*, 15(1), 1-54.

## Bibliography

- (2011). The Emergence of Language, Art and Symbolic Thinking. *Homo Symbolicus: The Dawn of Language, Imagination and Spirituality*, 111-131.
- Zilhão, J., Angelucci, D. E., Badal-García, E., d'Errico, F., Daniel, F., Dayet, L., et al. (2010). Symbolic use of marine shells and mineral pigments by Iberian Neandertals. *Proceedings of the National Academy of Sciences*, 107(3), 1023-1028.
- Zilhão, J., & D'Errico, F. (2003). An Aurignacian 'Garden of Eden' in Southern Germany? An Alternative Interpretation of the Geissenklösterle and a Critique of the Kulturpumpe Model. *PALEO Revue d'archéologie préhistorique*, 15, 1-25.
- Zubieta, L. F. (2014). The Rock Art of Chinamwali and Its Sacred Landscape. In D. Gillette, M. Greer, M. Helene Hayward & B. Murray (Eds.), *Rock Art and Sacred Landscapes* (pp. 49-66): Springer.