## Bibliography for Chapters 2-5 of Michael Wheeler's manuscript, Extended X: Recarving the Biological and Cognitive joints of Nature

- Adams, F. 2003. The informational turn in philosophy. *Minds and Machines*, 13: 471-501.
- Adams, F. and K. Aizawa. 2008. *The Bounds of Cognition*. Malden, MA and Oxford: Blackwell.
- Adams, F. and K. Aizawa. Forthcoming. Defending the bounds of cognition. To appear in Menary forthcoming.
- Aizawa, K. and Adams, F. 2005. Defending non-derived content. *Philosophical Psychology*, 18: 661-69.
- Amundson, R. and Lander G. V. 1994. Function without purpose: the uses of causal role function in evolutionary biology. *Biology and Philosophy*, 9: 443-469
- Bechtel, W. 1994. Natural deduction in connectionist systems. *Synthese* 101: 433-463.
- Bechtel, W. 1996. What knowledge must be in the head in order to acquire language. In B. Velichkovsky and D. M. Rumbaugh eds.. *Communicating Meaning: the Evolution and Development of Language*. Hillsdale, NJ: Lawrence Erlbaum Associates.
- Bechtel, W. and Abrahamsen, A. 1991. *Connectionism and the Mind: an Introduction to Parallel Processing in Networks*. Oxford: Basil Blackwell.
- Beer, R. D. 2003. The dynamics of active categorical perception in an evolved model agent. *Adaptive Behavior* 11 (4):209-243.
- Block, N. 1980. Troubles with functionalism. In C. W. Savage ed., *Minnesota Studies in the Philosophy of Science, Vol. IX*. Minneapolis, MN: University of Minnesota Press.
- Boden, M. A. 1990. Introduction. In M. A. Boden ed.. *The Philosophy of Artificial Intelligence*. Oxford: Oxford University Press.

- Boden, M. A. 2006. Mind *As Machine: A History of Cognitive Science* (two volumes). Oxford: Oxford University Press.
- Brooks, R. A. 1991. Intelligence without reason. In *Proceedings of 12th International Joint Conference on Artificial Intelligence*, San Mateo, California: Morgan Kauffman, 569-95. Reprinted in Brooks' *Cambrian Intelligence: the Early History of the New AI*, chapt. 8, pp.133-186, Cambridge, Mass.: MIT Press. Page numbers given in the main text refer to the reprinted version.
- Chalmers, D. 1996. The Conscious Mind. Oxford: Oxford University Press.
- Chalmers, D. 2008. Foreword to Andy Clark's *Supersizing the Mind*. In Clark 2008b, pp.??-??.
- Clark, A. 1989. Microcognition: Philosophy, Cognitive Science, and Parallel Distributed Processing. Cambridge, Mass.: MIT Press.
- Clark, A. 1997. Being There: Putting Brain, Body, And World Together Again, Cambridge, Mass.: MIT Press.
- Clark, A. 1999. Microfunctionalism: connectionism and the scientific explanation of mental states. English version of a paper that appears in German translation in T. Metzinger (ed.) *Das Leib-Seele-Problem in der Zweiten Helfte des 20 Jahrhunderts*. Frankfurt am Main: Suhrkamp. English version available on line at: http://www.philosophy.ed.ac.uk/staff/clark/pubs/microfx.pdf (accessed 16th July 2008).
- Clark, A. 2003. *Natural-Born Cyborgs: Minds, Technologies, and the Future of Human Intelligence*. Oxford: Oxford University Press.
- Clark, A. 2005. Intrinsic content, active memory and the extended mind. *Analysis* 65 (1): 1-11.
- Clark A. 2007. Curing cognitive hiccups: A defense of the extended mind. *Journal of Philosophy 104*, 163-192.
- Clark, A. 2008a. Pressing the flesh: A tension in the study of the embodied, embedded mind? *Philosophy and Phenomenological Research*. 76 (1): 37-59.

- Clark, A. 2008b. *Supersizing the Mind: Embodiment, Action, and Cognitive Extension*. New York: Oxford University Press.
- Clark, A. Forthcoming a. Coupling, constitution and the cognitive kind: A reply to Adams and Aizawa. To appear in Menary forthcoming.
- Clark, A. Forthcoming b. Memento's revenge: The extended mind, extended. To appear in Menary forthcoming.
- Clark, A. and D. Chalmers, D. 1998. The extended mind. *Analysis*, 58 (1): 7-19.
- Clark, A. and Thornton, C. 1997. Trading spaces: computation, representation and the limits of uninformed learning. *Behavioral and Brain Sciences*, 20: 57-90.
- Cummins, R. 1975. Functional analysis. *Journal of Philosophy*, 72: 741-765.
- Dartnall, T. 2004. Symposium review of Andy Clark's *Natural-Born Cyborgs*, *Metascience* 14.
- Dawkins, R. 1999. *The Extended Phenotype: the Long Reach of the Gene* (second edition; first edition published in 1982). Oxford: Oxford University Press.
- Dennett, D. C. 1978. Artificial intelligence as philosophy and as psychology. In *Brainstorms: Philosophical Essays on Mind and Psychology*, pp.109-126. Brighton: Harvester Press.
- Dennett, D. C. 1990. The myth of original intentionality. In K. A. Mohyeldin Said, W. H. Newton-Smith, R. Viale and K. V. Wilkes (eds.) *Modeling the Mind*. Oxford: Oxford University Press, pp.43-62.
- Dennett, D. C. 1995. *Darwin's Dangerous Idea: Evolution and the Meanings of Life*. London: Penguin.
- Dennett, D. C. 1996. *Kinds of Minds: Towards an Understanding of Consciousness*. London: Weidenfeld & Nicolson.
- Di Paolo, E. A. 2000. Homeostatic adaptation to inversion in the visual field and other sensorimotor disruptions. In J.-A. Meyer, A. Berthoz, D. Floreano, H.

- L. Roitblat and S. W. Wilson eds., From Animals to Animats VI: Proceedings of the 6th International Conference on Simulation of Adaptive Behavior, 440-449.
- Doolittle, R. F. 1994. Convergent evolution: the need to be explicit. *Trends in Biochemical Sciences*, 19: 15-18.
- Drayson, Z. 2008. Embodied cognitive science and functionalism: what price reconciliation? Paper presented at *Philosophy of Psychology, Neuroscience, and Biology, Graduate and Post-Doctoral Conference: PPNB 2008*, University of Edinburgh, 26th June 2008.
- Dretske, F. 1988. Explaining Behavior. Cambridge, Mass.: MIT Press.
- Dreyfus, H. L. 2008. Why Heideggerian AI failed and how fixing it would require making it more Heideggerian'. In P. Husbands, O. Holland, and M. Wheeler eds., *The Mechanical Mind in History*, Cambridge, Mass.: MIT Press, pp.331-71. (A shortened version of this paper appears in under the same title in *Philosophical Psychology* 20/2 (2007), 247-268. Another version appears under the same title in *Artificial Intelligence*, 171 (2007): 1137-1160. I have worked with the Husbands et al. (eds) version of the text, to which the cited page numbers refer.)
- Elton, M. 2003. *Daniel Dennett: Reconciling Science and Our Self-Conception*. Cambridge: Polity Press.
- Fodor, J. A. 1983. The Modularity of Mind. Cambridge, Mass.: MIT Press.
- Fodor, J. 1987. *Psychosemantics: The Problem of Meaning in the Philosophy of Mind.* Cambridge, Mass.: MIT Press.
- Fodor, J.A. and Pylyshyn, Z. 1988. Connectionism and cognitive architecture: a critical analysis. *Cognition* 28: 3-71.
- Freeman, W. 2000. *How Brains Make Up Their Minds*. New York: Columbia University Press.
- Goodwin, B. 1994. *How the Leopard Changed its Spots: the Evolution of Complexity*. London: Phoenix.

- Gould, S. J. 2000. More things in heaven and earth. In H. Rose and S. Rose (eds.), *Alas Poor Darwin: Arguments Against Evolutionary Psychology*, New York: Harmony Books, pp. 101-126.
- Gould, S. J. and Lewontin, R. C. 1979. The spandrels of San Marco and the Panglossian paradigm: a critique of the adaptationist programme. *Proceedings of the Royal Society of London, Series B*, 205: 581-598.
- Griffiths, P. E., 2005. Function, homology and character individuation. Paper presented at *The Concept of Function in Biology and Language*, Universitá di Catania, May 2005. Text available at: http://philsci-archive.pitt.edu/archive/00002351/01/Func.Hom.Chr.PDF (accessed 16th June 2008).
- Harvey, I. 1992. Untimed and misrepresented: Connectionism and the computer metaphor. Cognitive Science Research Paper 245, University of Sussex. Reprinted in AISB Quarterly 96, pp.20-27, 1996.
- Harvey, I., Husbands, P., and Cliff, D. 1994. Seeing the light: artificial evolution, real vision. In C. Cliff, P. Husbands, J.-A. Meyer, and S.W Wilson (eds.), *From Animals To Animats 3: Proceedings Of The Third International Conference On Simulation Of Adaptive Behavior*, Cambridge, Mass.: MIT Press, pp.392-401.
- Houghton, D. 1997. Mental content and external representations. Philosophical Quarterly, 47 (187): 159-177.
- Haugeland, J. 1995/1998. Mind embodied and embedded. In *Having Thought: Essays in the Metaphysics of Mind*, chap. 9, pp. 207-237. Cambridge, Mass.: Harvard University Press.
- Hurley, S. L. 1998. *Consciousness in Action*. Cambridge, Mass.: Harvard University Press.
- Hurley, S. L. 2003. Action, the unity of consciousness, and vehicle externalism. In A. Cleeremans (ed.), *The Unity of Consciousness: Binding, Integration, and Dissociation*, Oxford: Oxford University Press, pp. 78-91.
- Hurley, S. L. Forthcoming. Varieties of externalism. To appear in Menary forthcoming.

- Husbands, P., Harvey, I., and Cliff, D. 1995. Circle in the round: State space attractors for evolved sighted robots. *Robotics and Autonomous Systems*, 15: 83-106.
- Husbands, P., Smith, T., Jakobi, N., and O'Shea, M. 1998. Better living through chemistry: Evolving GasNets for robot control, *Connection Science*, 10(3/4): 185-210.
- Hutchins, E. 1995. Cognition in the Wild. Cambridge, Mass.: MIT Press.
- Kauffman, S. 1993. *The Origins or Order: Self-Organization and Selection in Evolution*. New York: Oxford University Press.
- Marr, D. 1982. Vision: a Computational Investigation into the Human Representation and Processing of Visual Information. New York: W.H. Freeman.
- McClelland, J. L. 1995. Constructive memory and memory distortions: a parallel-distributed processing approach. In D. L. Schacter ed. *Memory Distortions: How Minds, Brains and Societies Reconstruct the Past*, pp.69-90. Cambridge Mass.: Harvard University Press.
- McCulloch, W. S. and Pitts, W. H. 1943. A logical calculus of the ideas immanent in nervous activity. *Bulletin of Mathematical Biophysics* 5: 115-133.
- Menary, R. 2007. *Cognitive Integration: Mind and Cognition Unbounded*. Basingstoke: Palgrave Macmillan.
- Menary, R. (ed.). Forthcoming. *The Extended Mind*. Aldershot: Ashgate.
- Millikan, R. 1984. *Language, Thought and Other Biological Categories*. Cambridge, Mass.: MIT Press.
- Millikan, R. 1993. White Queen Psychology and Other Esays for Alice. Cambridge, Mass.: MIT Press.
- Neander, K. 1991. Functions as selected effects: the conceptual analyst's defense. *Philosophy of Science*, 58: 168-184.
- Neander, K. 1995. Misrepresenting and malfunctioning. *Philosophical Studies*, 79: 109-41.

- Newell, A. and Simon, H. A. 1976. Computer science as empirical inquiry: Symbols and search. *Communications of the Association for Computing Machinery*, 19 (3): 113-126. Text available at: http://www.rci.rutgers.edu/~cfs/472\_html/AI\_SEARCH/PSS/PSSH1.html (accessed 14th July 2008).
- Newton, N. 1992. Dennett on intrinsic intentionality. *Analysis* 52 (1): 18-23.
- Noë, A. 2004. Action in Perception. Cambridge, Mass.: MIT Press.
- Port, R. and van Gelder, T. (eds.). 1995. *Mind as Motion: Explorations in the Dynamics of Cognition*. Cambridge, Mass.: MIT Press.
- Prescott, T. J., Redgrave, P., and Gurney, K. 1999. Layered control architectures in robots and vertebrates. *Adaptive Behavior* 7: 99-127.
- Putnam, H. 1975. The meaning of 'meaning'. In his *Philosophical Papers, Vol. II : Mind, Language, and Reality*. Cambridge: Cambridge University Press.
- Rowlands, M. 1999. The Body in Mind. Cambridge: Cambridge University Press.
- Rowlands, M. 2003. Externalism: Putting Mind and World Back Together Again. Chesham, Bucks.: Acumen
- Rowlands, M. 2006. *Body Language: Representation in Action*. Cambridge, Mass.: MIT Press.
- Rowlands, M. Manuscript. Perception: from extended mind to embodied phenomenology. Unpublished paper given at a symposium on Embodied Perception held at the Spring 2008 meeting of the Pacific Division of the American Philosophical Association, March 18th-23rd 2008, Pasadena, California.
- Rumelhart, D.E., Smolensky, P., McClelland, J.L. and Hinton, G. 1986. Schemata and sequential thought processes in PDP models. In *Parallel Distributed Processing: Explorations In The Microstructure Of Cognition, Vol. 2: Psychological And Biological* Models, J.L. McClelland and D. Rumelhart eds. Cambridge, Mass.: MIT Press, 7-57.

- Rupert, R., 2004. Challenges to the hypothesis of extended cognition. *Journal of Philosophy* 101 (8): 389-428.
- Samuels, R. 1998. Evolutionary psychology and the massive modularity hypothesis. *British Journal for the Philosophy of Science* 49: 575-602.
- Schacter, D. L. and Dodson, C.S. 2001. Misattribution, false recognition, and the sins of memory. *Proceedings of the Royal Society of London, Series B*, 356: 1385-1393.
- Scheier, C. and Pfeifer, R. 1998. Exploiting embodiment for category learning. In *From Animals to Animats 5: Proceedings of the Fifth International Conference on Simulation of Adaptive Behavior*, R. Pfeifer, B. Blumberg, J.-A Meyer and S. W. Wilson eds. Cambridge, Mass.: MIT Press, 32-37.
- Searle, J. R. 1992. The Rediscovery of the Mind. Cambridge, Mass.: MIT Press.
- Shapiro, L. 2004. The Mind Incarnate. Cambridge, Mass.: MIT Press.
- Smolensky, P. 1988. On the proper treatment of connectionism. *Behavioural and Brain Sciences*, 11: 1-74.
- Sober, E. 1993. The Philosophy of Biology. Oxford: Oxford University Press.
- Sober,. E. 2005. Is drift a serious alternative to natural selection as an explanation of complex adaptive traits? In *Philosophy, Biology and Life, Supplement to 'Philosophy' no.56*. A. O'Hear ed. Cambridge: Cambridge University Press, 125-153.
- Sterelny, K. and Griffiths, P. E. 1999. Sex and Death: an Introduction to Philosophy of Biology. Chicago: University of Chicago Press.
- Sutton, J. 2006. Distributed cognition: Domains and dimensions. *Pragmatics and Cognition*, 14 (2): 235-247. Special issue on distributed cognition.
- Sutton, J. Forthcoming. Exograms and interdiscipliniarity: History, the extended mind, and the civilizing process. To appear in Menary forthcoming.
- Thompson, E. 2007. *Mind in Life: Biology, Phenomenology, and the Sciences of Mind.*Cambridge, Mass.: Harvard University Press.

- van Gelder, T. 1995. What might cognition be if not computation? *Journal of Philosophy*, XCII: 7, 345-381.
- van Gelder, T. The dynamical hypothesis in cognitive science. *Behavioral and Brain Sciences*, 21: 5, 615-68.
- Varela, F. J., Thompson, E. and Rosch, E. 1991. *The Embodied Mind: Cognitive Science and Human Experience*. Cambridge, Mass.: MIT Press.
- Webb, B. 1994. Robotic experiments in cricket phonotaxis. In *From Animals to Animats 3: Proceedings of the Third International Conference on Simulation of Adaptive Behavior*, D. Cliff, P. Husbands, J.-A Meyer and S. W. Wilson eds. Cambridge, Mass.: MIT Press, 45-54.
- Wheeler, M. 1994. From activation to activity: Representation, computation, and the dynamics of neural network control systems. *AISB Quarterly*, 87: 36-42.
- Wheeler, M. 1995. Escaping from the Cartesian mind-set: Heidegger and artificial life, in *Advances in Artificial Life: Proceedings of the Third European Conference on Artificial Life*, F. Moran, A. Moreno, J. Merelo and P, Chacon eds. Berlin and Heidelberg: Springer-Verlag.
- Wheeler, M. 1998. Explaining the evolved: Homunculi, Modules, and Internal Representation. In *Evolutionary Robotics*, P. Husbands and J.-A. Meyer eds. Berlin and Heidelberg: Springer-Verlag, 87-107.
- Wheeler, M. 2005a. Friends reunited? Evolutionary robotics and representational explanation, *Artificial Life* 11: 1-3, special issue on Embodied and Situated Cognition. F. Almeida e Costa and L. Mateus Rocha eds., 215-231.
- Wheeler, M. 2005b. *Reconstructing the Cognitive World: the Next Step*. Cambridge, Mass.: MIT Press.
- Wheeler, M., 2006. Traits, Genes and Coding, in *Handbook of the Philosophy of Biology*, M. Matthen and C. Stephens eds. Amsterdam: Elsevier, 381-411.
- Wheeler, M. 2008. Minds, things, and materiality. In *The Cognitive Life of Things:* Recasting the Boundaries of the Mind, C. Renfrew and L. Malafouris eds. Cambridge: McDonald Institute for Archaeological Research Publications.

- Wheeler, M. and Clark, A. 1999. Genic representation: reconciling content and causal complexity. *British Journal for the Philosophy of Science*, 50(1): 103–135.
- Wilson, R. A. 2004. *Boundaries of the Mind: the Individual in the Fragile Sciences*. Cambridge: Cambridge University Press.
- Wright, L. 1973. Functions. Philosophical Review, 82: 139-168.