

*CURRICULUM VITAE: 01/19/2007*

## **PAUL M. CHURCHLAND**

Citizenship: Dual: American/Canadian

Present Position: Professor: Valtz Chair of Philosophy  
Member, Cognitive Science Faculty  
Member, Institute for Neural Computation  
Member, Science Studies Faculty  
University of California, San Diego  
La Jolla, CA 92093

Born: Oct. 21, 1942, Vancouver, B.C., Canada

Married: to Patricia S. Churchland, B.A., M.A., B.Phil.(Oxon.), D.Litt.

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### **AREAS OF SPECIALIZATION**

Philosophy of Mind  
Philosophy of Science  
Epistemology  
Perception

Philosophy of Neuroscience

Philosophy of Cognitive Science

### **EDUCATIONAL HISTORY**

University of British Columbia, 1960-64  
(Philosophy, Physics, & Mathematics)

-- B.A. (hons.), 1964

University of Pittsburgh, 1964-69

(Philosophy of Mind/of Science)

-- Ph.D., 1969

### **EMPLOYMENT HISTORY**

University of Pittsburgh at Greensburgh, Instructor, 1969

University of Toronto, Lecturer, 1967-69

University of Manitoba, Assistant Professor, 1969-74

Associate Professor, 1974-79

Professor, 1979-84

Institute for Advanced Study, Princeton, N.J.

Member, 1982-83

University of California, San Diego, Professor, 1984-present

Department Chair, 1986-90

Valtz Chair, 2003 --

## **ACADEMIC HONORS, AWARDS, AND GRANTS**

- 1964 Woodrow Wilson Fellow
- 1965 Andrew Mellon Fellow
- 1975 Canada Council Leave Fellowship
- 1975 Canada Council Research Grant (Scientific Realism)
- 1978 Rh Institute Award and Research Grant, for Outstanding Contributions to Scholarship and Research in the Humanities
- 1981 SSHRC Special Project Research Grant (Stereopsis)
- 1982 Member, Institute for Advanced Study, Princeton, N.J.
- 1983 SSHRC Leave Fellowship
- 1983 SSHRC Research Grant (Evolutionary Epistemology)
- 1989 President: Society for Philosophy and Psychology
- 1990 Univ. of California President's Research Fellowship (Humanities)
- 1996 Honorary Doctorate (D.Litt.), The University of Victoria
- 1997 The UCSD Chancellor's Associates' Award for Excellence in Teaching
- 1999 The Gilbert Ryle Lectures: Trent University
- 2000 Vice President: American Philosophical Assoc., Pacific Division
- 2001 The Taft Lectures: University of Cincinnati
- 2001-02 President: American Philosophical Assoc., Pacific Division

## **PROFESSIONAL SERVICE**

- Associate Editor: *Philosophy of Science* (1994-98)
- Editorial Boards: *Perception*  
*Philosophical Psychology*  
*British Journal for the Philosophy of Science*  
*Inquiry*  
*Philosophy of Science*

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

- American Philosophical Association (President, Pac. Div.: 2001-02)
- Society for Philosophy and Psychology (President: 1989-90)
- Philosophy of Science Association
- American Association for the Advancement of Science
- American Association for Artificial Intelligence
- Cognitive Science Society

## **BOOKS:**

**SCIENTIFIC REALISM AND THE PLASTICITY OF MIND** (Cambridge U. P., 1979),

157pages

- **Translated into Japanese** (Tokyo: Kinokoniya Corp., 1987.)
- **English Paperback edition**, 1988
- **Translated into Chinese** (China Renmin University Press, 2004)

**MATTER AND CONSCIOUSNESS** (MIT Press, 1984).

- **Revised and expanded edition: Jan., 1988. 187 pages.**
- **Translated into Italian** (Bologna: Il Mulino Press, 1991)
- **Translated into Korean** (Seoul: Seokwangsa Pub. Co., 1992)
- **Translated into Chinese** (Taipei, 1997)
- **Translated into French** (Paris: Editions Champ-Vallon, 1998)
- **Translated into Portuguese** (Sao Paulo: Fundacao Editoria Da UNESP, 2000)
- **Translated into Spanish** (Barcelone: Gedisa, 2001).

**IMAGES OF SCIENCE:** *Scientific Realism versus Constructive Empiricism*, co-edited with C.A.

Hooker (Foundations of Science Series, University of Chicago Press, 1985), 308 pages.

**A NEUROCOMPUTATIONAL PERSPECTIVE:** *The Nature of Mind and the Structure of Science* (Cambridge: The MIT Press, 1989). Paperback edition, 1992.

- **Translated into Italian** (Bologna: Il Mulino Press, 1992).
- **Translated into Spanish** (Barcelona: Editorial Gedisa, 1994).

**THE ENGINE OF REASON, THE SEAT OF THE SOUL:** *A Philosophical Journey into the Brain* (Cambridge: The MIT Press, March 1995). 324 pages.

- **Translated into Italian** (Milan: Il Saggiatore, 1997)
- **Translated into German** (Heidelberg: Spektrum Akademischer Verlag, 1997)
  - **paperback edition (2001)**
- **Translated into Japanese** (Tokyo: Sangyo Tosho, 1997)
- **Translated into French** (Paris: De Boeck Universit, 1999)
- **Translated into Greek** (Athens: Govostis Publishing, 2000)
- **Translated into Polish** (Warsaw: Aletheia Foundation, Jan. 2001)

**THE CHURCHLANDS AND THEIR CRITICS** (ed., R. McCauley; Oxford:

Blackwells, 1996). A festschrift of ten critical essays with replies (90 pages) from P.M. and P.S. Churchland.

**ON THE CONTRARY: *Critical Essays: 1987 - 1997***. Seventeen critical essays. Co-authored with P.S. Churchland (Cambridge: The MIT Press, 1998).

**NEUROPHILOSOPHY AT WORK** (New York: Cambridge U.P, forthcoming Jan., 2007)

#### BOOK EXCERPTS

**Reprinted:** (1995) section 15 of *Scientific Realism and the Plasticity of Mind* is translated into Polish and published as “The Mind-Body Problem”, chapter 10 of *Philosophy of Mind* (Warsaw: Aletheia Foundation).

**Reprinted:** (1988), section 5 of *Matter and Consciousness*, “Eliminative Materialism,” in Solomon, R. C., *Introducing Philosophy*, (Chicago: Harcourt, Brace, Jovanovich): 449-453.

**Reprinted:** (1989), sections 2,3,& 4 of *Matter and Consciousness*, as “Behaviorism, Materialism, and Functionalism”, in Feinberg, J., ed., *Reason and Responsibility: Readings in Some Basic Problems of Philosophy*, seventh edition (Wadsworth: Belmont, California: 1989).

**Reprinted:** (1990), section 5 of *Matter and Consciousness*, “Eliminative Materialism,” as Ch. 2 of Pojman, J., ed., *Introductory Readings in Philosophy* (Wadsworth)

**Reprinted:** (1997) Ch. 4 of *A Neurocomputational Perspective*, “Knowing Qualia: A Reply to Jackson,” in Block, N., Flanagan, O., and Guzeldere, G., eds., *The Nature of Consciousness: The Philosophical Debates* (Cambridge: The MIT Press).

**ARTICLES:**

**1970**

“The Logical Character of Action Explanations,” *The Philosophical Review* 79, April 1970. 22 pages.

**Reprinted:** (1976) in the Italian anthology *Neopositivismo e Storiografia* (La Nuova Italia Editrice, Milan).

**Reprinted:** (1977) in the German anthology, *Analytische Handlungstheorie, volume II*, in the Theorie Diskussion series (Suhrkamp Verlag, Frankfurt, 1977).

**Reprinted:** (1991) in the French anthology *Philosophie Analytique de l'Action*, Marc Neuberger, ed. (Paris: Pierre Mardage Editeur).

**1975**

“Two Grades of Evidential Bias”, *Philosophy of Science* 42, no 3, Sept., 1975. 10 pages.

“Karl Popper’s Philosophy of Science”, *Canadian Journal of Philosophy* 5, no. 1, Sept., 1975. 12 pages.

“Critical Notice: *Speaking of Persons* by G. Engelbrechtsen”, *Dialogue* 15, no. 4, Dec. 1976. 6 pages.

**1978**

“The Virtuosity of the Sensory Cortex and the Perils of Common Sense”, with P.S. Churchland, *The Behavioral and Brain Sciences*, 1, no. 3, 1978. 2 pages.

“Internal States and Cognitive Theories”, with P.S. Churchland (1<sup>st</sup> auth.), *The Behavioral and Brain Sciences*, 1, no. 4, 1978. 2 pages.

### 1980

“In Defense of Naturalism”, *The Behavioral and Brain Sciences*, 3, no. 3, 1980. 2 pages.

“Critical Notice: Persons and Minds—The Prospects of Nonreductive Materialism, by Joseph Margolis”, *Dialogue*, Sept., 1980. 9 pages.

“Plasticity: Conceptual and Neuronal”, *The Behavioral and Brain Sciences*, 3, no. 3, 1980. 2 pages.

### 1981

“Eliminative Materialism and the Propositional Attitudes”, *Journal of Philosophy*, 78, no. 2, Feb., 1981. 23 pages.

**Reprinted:** (1989) in Lycan, W., ed., *Mind and Cognition: A Reader* (Oxford: Basil Blackwells).

**Reprinted :** (1989) in Rosenthal, D., ed., *The Nature of Mind* (Oxford: Oxford University Press).

**Reprinted :** (1991) in Boyd, R., Gasper, P., and Trout, J., eds., *Philosophy of Science* (Cambridge: MIT Press).

**Reprinted :** (1992) in Christensen, S. C., and Turner, D. R., eds., *Folk Psychology: Contemporary Readings in the Philosophy of Psychology* (New Jersey: Lawrence Erlbaum).

**Reprinted :** (1993) is translated into Spanish and reprinted in Rabossi, E., ed., *Filosofia y Ciencia Cognitiva* (Buenos Aires / Barcelona: Editorial Paidos).

**Reprinted :** (1993) in Goldman, A., Ed., *Readings in Philosophy and Cognitive Science* (Cambridge: MIT Press).

**Reprinted :** (1994) in Moser, P.K. and Trout, J.D., eds., *Materialism* (Routledge Ltd., 1994).

**Reprinted :** (1994) translated into Chinese and reprinted in *Foreign Philosophical Translations*, no. 6 (1994), published by the Institute of Philosophy, Chinese Academy of Social Sciences: pp. 8-15.

**Reprinted :** (1999) translated into German and published in Thomas Metzinger, ed. of a textbook entitled *Das Leib-Seele-Problem in der zweiten Halfte des zwanzigsten Jahrhunderts* (Stuttgart: Leipzig, to appear 1999).

**Reprinted :** (1999) in *Philosophy and the Human Situation*, (London: The Open University).

**Reprinted :** (1999) in R. Cummins and D. D. Cummins, *Minds, Brains, and Computers* (Oxford: Basil Blackwell).

**Reprinted :** (1999) in J. Crumley, ed., *Problems in Mind: Readings in Contemporary Philosophy of Mind* (Mayfield Publ. Co., scheduled for 10/99).

**Reprinted:** (1999) in J. Greenwood, ed., *The Rational Animal* (Minneapolis, McGraw-Hill).

**Reprinted :** (2001) in *Postgraduate Foundation in Philosophy* (London: The Open University).

**Reprinted:** (2001) Translated into French and published in P. Poirer & D. Fiset, eds., *Philosophie de l'Esprit: Une Anthologie* (Paris: Librairie Philosophique J. Vrin).

**Reprinted:** (2002) in A. Bailey, ed., *First Philosophy* (Broadview Press).

**Reprinted:** (2002) in D. Chalmers, ed., *Philosophy of Mind: Classical and Contemporary Readings* (Oxford: Oxford University Press).

**Reprinted:** (2003) in Heil, J., ed., *Philosophy of Mind: An Anthology* (Oxford: OUP).

**Reprinted:** (2004): Translated into Japanese in *Philosophy of Mind III: A Translated Anthology* (Tokyo: Keiso Shobo).

**Reprinted:** (2004): in Bailey, A., ed., *First Philosophy* (Toronto: Broadview Press).

**Reprinted:** (2005): in Beakley, B., ed., *The Philosophy of Mind: Classical Problems / Contemporary Issues*, 2<sup>nd</sup> Edition (The MIT Press).

**Reprinted:** (2005): translated into German, Metzinger, T., ed., *A Course in the Philosophy of Mind* (Berlin: Mertin Verlag).

“Functionalism, Qualia, and Intentionality”, *Philosophical Topics*, 12, no. 1, 1981. 24 pages.

**Reprinted:** (1982) in Shahan and Biro, eds. *Mind, Brain, and Function* (Oklahoma, 1982). 24 pages.

**Reprinted:** (1996) in *Philosophy of Mind*, ed. B. Cooney. (Boston: Jones and Bartlett).

**Reprinted :** (1999) in J. Crumley, ed., *Problems in Mind: Readings in Contemporary Philosophy of Mind* (Mayfield Publ. Co., scheduled for 10/99).

**Reprinted:** (2001) translated into French in P. Poirier and D. Fiset, eds., *Philosophie de l'Esprit: Une Anthologie* (Paris: Librarie Philosophique J. Vrin).

## 1982

“Is Thinker a Natural Kind?”, *Dialogue*, 21, no. 2, June, 1982. 18 pages.

“The Anti-Realist Epistemology of van Fraassen’s The Scientific Image”, *Pacific Philosophical Quarterly*, 63, no. 3, July, 1982. 10 pages.

**Reprinted:** (1985) under the title, “The Ontological Status of Observables: In Praise of the Superempirical Virtues”, in *Images of Science*, eds. Churchland and Hooker (University of Chicago Press, 1985). 13 pages.

**Reprinted:** (1989) in Brody, B., and Grandy, R., *Readings in the Philosophy of Science*.

**Reprinted:** (1998) in D. Rothbart, ed., *Science, Reason, and Reality: An Introduction to the Philosophy of Science* (Fort Worth: Harcourt Brace).

### 1983

“Stalking the Wild Epistemic Engine”, with P. S. Churchland (1<sup>st</sup> auth.), *Nous*, 17, no. 1, March, 1983. 15 pages.

**Reprinted:** (1989) in Lycan, W., ed., *Mind and Cognition: A Reader* (Oxford: Basil Blackwells).

“Information: Semantic and Information-Theoretic”, with P.S. Churchland, *The Behavioral and Brain Sciences*, 6, no. 1, 1983. 2 pages.

### 1985

“Reduction, Qualia, and the Direct Introspection of Brain States”, *Journal of Philosophy*, 82, no. 1, 1985. 20 pages.

**Reprinted:** translated into Chinese and reprinted in *Foreign Philosophical Translations*, no. 6 (1987), published by the Institute of Philosophy, Chinese Academy of Social Sciences: pp. 30-38.

**Reprinted:** (1989) in R. Martin, ed., *The Experience of Philosophy* (Wadsworth: 1989).

**Reprinted:** (1991) in Hoy, R. and Oaklander, L., eds., *Metaphysics: Classic and Contemporary Readings* (Belmont: Wadsworth).

**Reprinted:** (1998) reprinted in F. Jackson, ed., *Consciousness* (Aldershot, U.K.: Dartmouth Publishing Co.).

**Reprinted :** (1999) in J. Crumley, ed., *Problems in Mind: Readings in Contemporary Philosophy of Mind* (Mayfield Publ. Co., scheduled for 10/99).

**Reprinted :** (2000) in D. Kolak, ed., *Philosophical Bridges* (Mayfield Publ. Co., scheduled for 2000).

**Reprinted :** (2000) in D. Rosenthal, ed., *Materialism and the Mind-Body Problem* (Cambridge, Mass.: Hackett).

**Reprinted:** (2001) in *From Wonder to Wisdom: An Introduction to Philosophy* (Pearson Custom Publishing).

**Reprinted:** (2001) in *Postgraduate Foundation in Philosophy* (London: The Open University).

**Reprinted:** (2002) in S. Cahn, ed., *Philosophy for the 21<sup>st</sup> Century* (Oxford: Oxford University Press).

**Reprinted:** (2002) in N. Campbell, ed., *Mental Causation and the Metaphysics of Mind* (Broadview Press).

Conceptual Progress and Word/World Relations: In Search of the Essence of Natural Kinds”, *Canadian Journal of Philosophy*, 15, no. 1, March, 1985. 22 pages.

“Theories of Mind”, *Collier’s Encyclopedia*, 1985. 7 pages.

“On the Speculative Nature of our Self-Conception: A Reply to Some Criticisms”, in *New Essays in the Philosophy of Mind*, J. McIntosh, ed., Supplemental Vol. 11 of the *Canadian Journal of Philosophy* (1985). 17 pages.

“Review of *Matter and Sense* by H. Robinson”, *Philosophical Review*, Jan., 1985. 3 pages.

## 1986

“Some Reductive Strategies in Cognitive Neurobiology”, *Mind*, 95, no. 379, 1986. pp. 279-309.

**Reprinted:** (1986) in Silvers, S., ed., *Representation: Readings in the Philosophy of Mental Representation* (Reidel: Dordrecht-Holland).

**Reprinted:** (1986) in Boden, M. A., *Philosophy of Artificial Intelligence* (Oxford University Press).

**Reprinted:** (1992) in Fodor, J. and LePore, E., eds., *The Metaphysics of Meaning: A Resource Book* (Blackwell?)

**Reprinted:** (1994) is translated into Spanish and reprinted in a Spanish-language edition of Boden, M. A., *Philosophy of Artificial Intelligence* (Oxford University Press: 1989). The Mexican publisher is Fondo de Cultura Economica.

“Cognitive Neurobiology: A Functional Hypothesis for Laminar Cortex”, *Biology and Philosophy*, 1, no. 1, 1986. 27 pages.

“The Continuity of Philosophy and the Sciences”, *Mind and Language*, 1, no. 1, 1986. 10 pages.

“Phase-Space Representation and Coordinate Transformation: A General Paradigm for Neural Computation”, *The Behavioral and Brain Sciences*, 9, no. 1, 1986. 2 pages.

“Semantic Content: in Defense of a Network Approach”, *The Behavioral and Brain Sciences*, 9, no. 1, 1986. 2 pages.

“On the Global Assessment of Human Cognition”, *The Dalhousie Review*, 1986. 497-501.

“Cognition and Conceptual Change: A Reply to Double”, *Journal for the Theory of Social Behavior*, 16, no. 2: 217-21.

“Firewalking and Physics”, *The Skeptical Inquirer*, 10, Spring, 1986: 284-85.

“Subjective Qualia from a Materialist Point of View”, in PSA 1984, *Proceedings of the Philosophy of Science Association*, P. Asquith, ed. 36 pages.

### 1987

“How Parapsychology Could Become a Science”, *Inquiry*, 30, no. 3, Sept., 1987: 227-39.

### 1988

“Perceptual Plasticity and Theoretical Neutrality: A Reply to Jerry Fodor”, *Philosophy of Science*, 55, no. 2 (June): 167-187.

Reprinted: (1993) in Goldman, A., Ed., *Readings in Philosophy and Cognitive Science* (Cambridge: MIT Press).

“Reductionism, Connectionism, and the Plasticity of Human Consciousness”, *Cultural Dynamics*, I, no. 1: 29-45.

“Folk Psychology and the Explanation of Human Behavior”, *Proceedings of the Aristotelean Society*: Supplementary Volume LXII, D. W. Edgington, ed.: 209-221.

**Reprinted:** (1989) in Bogdan, R., ed., *Mind and Common Sense* (Cambridge: Cambridge University Press).

**Reprinted:** (1989) in Tomberlin, J., ed., *Philosophical Perspectives Vol. III: Philosophy of Mind and Action Theory*.

**Reprinted:** (1991) in Greenwood, J.D., ed., *The Future of Folk Psychology: Intentionality and Cognitive Science* (Cambridge: Cambridge University Press).

**Reprinted:** (1993) in Christensen, S. C., and Turner, D. R., eds., *Folk Psychology: Contemporary Readings in the Philosophy of Psychology* (New Jersey: Lawrence Erlbaum).

## 1989

“Simplicity as an Epistemic Virtue: The View from the Neuronal Level”, in N. Rescher, ed., *Aesthetic Factors in Natural Science* (University Press of America).

“Theory, Taxonomy, and Methodology: A Reply to Haldane’s ‘Understanding Folk’”, *Proceedings of the Aristotelian Society*, Supplementary Volume LXIII, D. W. Edgington, ed.

“The ontological status of intentional states: nailing folk psychology to its perch”, *Behavioral and Brain Sciences* 11, no. 3 (commentary on Dennett): 507-508.

Review of *Observation and Objectivity* by H.I. Brown, for *Isis* (1989): 143-144.

## 1990

“Could a Machine Think?”, *Scientific American* (Jan., 1990): 26-31. Co-authored with P. S. Churchland.

**Reprinted:** (1992) in Schellenberg, K., ed., *Computers in Society* (Guilford, Ct., Dushkin Publishing Group, 1992): 222-228.

**Reprinted:** (1992) in Dietrich, E., ed., *The Intentionality of Machines* (Blackwell?)

**Reprinted:** (1996) in H. Geirsson & M. Losonsky, eds., *Readings in Language and Mind* (Oxford, Blackwell): 273-281.

**Reprinted:** (1999) in J. Preston and M. Bishop, eds., *Searle's Chinese Room* (1999).

**Reprinted:** (1999) in Baker, ed., *Introduction to Philosophy* (Simon and Shuster).

**Reprinted:** (2001), in *Introduction to Modern Philosophy* (Prentice-Hall).

**Reprinted:** (2005): in Irvine & Russell, eds., *In the Agora: The Public Face of Canadian Philosophy* (Toronto: University of Toronto Press).

**Reprinted:** (2005): in *Discovering Philosophy* (Wadsworth).

“On the Nature of Theories: A Neurocomputational Perspective”, in C. W. Savage, ed., *Theories: Minnesota Studies in the Philosophy of Science*, XIV (Minneapolis: University of Minnesota Press).

**Reprinted:** (1992) in Fodor, J. and LePore, E., eds., *The Metaphysics of Meaning: A Resource Book* (Blackwell?)

**Reprinted:** (1992) in Burton, B., ed., *Minds: Natural and Artificial* (Albany: SUNY Press).

**Reprinted:** (1997) as chapter 10 of J. Haugeland, ed., *Mind Design II* (Cambridge: The MIT Press)

**Reprinted:** (2002) translated into Chinese and published in Li Ping, ed., *Philosophy and Cognitive Science* (Guangdong People's Press).

“A Deeper Unity: Some Feyerabendian Themes in Neurocomputational Form”, in Munevar, G., ed., *Beyond Reason: Essays on Paul Feyerabend* (Dordrecht: Kluwer)

**Reprinted:** (1990) in Giere, R., ed., *Minnesota Studies in the Philosophy of Science*, Vol. 15 (Minneapolis: Univ. of Minnesota Press).

**Reprinted:** (1992) in Trappl, R., ed., *Artificial Intelligence: Future, Impacts, Challenges* (New York: Hemisphere Publ. Corp.). This is a special issue of *Applied Artificial Intelligence*, @, no. @.

“On the Nature of Explanation: A PDP Approach,” *Physica D*, 42: 281-292.

**Reprinted:** (1990) in Forrest, S., ed., *Emergent Computation* (Amsterdam: Elsevier): 281-292.

**Reprinted:** (1990) in Forrest, S., ed., *Emergent Computation: Proceedings of the Los Alamos Conference* (Cambridge: The MIT Press).

**Reprinted:** (1996) in Misiek, J., ed., *Rationality*, Vol. 175 of *Boston Studies in the Philosophy of Science* (Dordrecht: Kluwer).

“Cognitive Activity in Artificial Neural Networks”, in N. Block and D. Osherson, eds., *An Invitation to Cognitive Science* (Cambridge: The MIT Press).

**Reprinted:** (2000) in Cummins, R. and Cummins, D., eds., *Minds, Brains, and Computers: The Foundations of Cognitive Science* (Oxford: Blackwell).

“Representation and High-Speed Computation in Neural Networks”, in *The Foundations of Artificial Intelligence: A Source Book*, eds. Partridge, D. and Wilks, Y. (Cambridge: Univ. of Cambridge Press).

“Comments on Dietrich’s “Computationalism”, *Social Epistemology*, Vol. 4: 135-154.

## 1991

“On the Problem of Truth and the Immensity of Conceptual Space”, in Levine, G., ed., *Realism and Representation* (Madison: University of Wisconsin Press).

“Intertheoretic Reduction: A Neuroscientist’s Field Guide”, (1<sup>st</sup> author)(with P. S. Churchland), in Damasio, A. and Damasio, H., eds., *Seminars in Neuroscience*, Vol. 2, no. 4: 249-256.

**Reprinted:** (1992) is translated into Polish in a theme issue of the journal *Znak* (T. Szubka, ed., Catholic University of Lublin).

**Reprinted:** (1992) in *Peace Through Mind/Brain Science: Proceedings of the Third International Conference* (Hamamatsu: Hamamatsu Corp.).

**Reprinted:** (1992) is translated into Spanish in Diaz, J.L., and Villanueva, E., eds., *Modelos Cognitivitos de la Mente: Investigacion Interdisciplinaria en Ciencia Cognitiva* (Universidad Nacional Autonoma de Mexico).

**Reprinted:** (1992) in Christen, Y., and Churchland, P., eds., *Neurophilosophy and Alzheimer's Disease* (Berlin: Springer Verlag).

**Reprinted:** (1993) in Szubka, T. and Warner, R. (eds.), *The Mind-Body Problem: The Present State of the Debate* (London: Blackwells).

**Reprinted:** (1993) translated into Spanish and reprinted in J. Cornwell, ed., *La Imagen de la Naturaleza* (Santiago: Editorial Universitaria).

**Reprinted:** (2002) in B. Bechtel, et al, eds., *Philosophy and the Neurosciences: A Reader* (Oxford: Blackwell).

“Reconceiving Cognition: A Reply to Glymour”, Giere, R., ed., *Minnesota Studies in the Philosophy of Science*, Vol. 15 (Minneapolis: Univ. of Minnesota Press).

**1992**

“Activation Vectors versus Propositional Attitudes: How the Brain Represents Reality,” in *Philosophy and Phenomenological Research*.

**1993**

“A Feedforward Network for Fast Stereo Vision with Movable Fusion Plane,” in Akins, K. ed., Perception, *Vancouver Studies in Cognitive Science*, Vol. IV (New York: Oxford University Press).

**Reprinted:** (1995) in Ford, K. and Hayes, P., eds., *Android Epistemology: Human and Machine Cognition* (AAAI Press).

**Reprinted:** (1999) in Hanovar, V., ed., Symbol Processors and Connectionist Networks in Artificial Intelligence and Cognitive Modelling: Steps Toward Principled Integration (Academic Press or Oxford U.P.)

“Folk Psychology”, in Guttenplan, S., ed., *Companion to the Mind* (London: Basil Blackwell).

“State-Space Semantics and Meaning Holism”, *Philosophy and Phenomenological Research*, Vol. LIII, no. 3 (Sept.): 667 - 672.

“Evaluating Our Self Conception”, *Mind and Language*, 8, no. 2, pp. 211-222.

**Reprinted:** (1994) in Moser, P.K. and Trout, J.D., eds., *Materialism* (Routledge Ltd., 1994).

## 1994

“Betty Crocker’s Theory of Consciousness” (Review of Searle’s *The Rediscovery of the Mind*), in *London Review of Books*, vol. 16, no. 9 (12 May).

**Reprinted:** (2006) in B.N. Waller, ed., *You Decide! Current Debates in Introductory Philosophy* (Longman Publishers).

## 1995

“The Neural Representation of Social Reality”, in May, L., Freidman, M., and Clark, A., eds., *Mind and Morals* (Cambridge: The MIT Press).

**Reprinted:** (1995) in Danielson, P., ed., *Modeling Rationality, Morality, and Evolution*, *Vancouver Studies in Cognitive Science* (Oxford: Oxford University Press, 1998).

**Reprinted:** (1996) in Daly, M., *Practical Wisdom* (Wadsworth Publ. Co., 1996), a textbook on moral theory.

**Reprinted:** (1997) in Bynum, T. and Moor, J., ed., *The Digital Phoenix: How Computers are Changing Philosophy* (Oxford: Basil Blackwell).

**Reprinted:** (2001) translated into Italian and reprinted under the title, “La rappresentazione neurale del mondo sociale” in *La Fenice Digitale: Come I computer stanno cambiando la filosofia* (Milan: APOGEO srl).

**Reprinted:** (1996) “The Neural Representation of Social Reality”, reprinted in J. Daly (ed.), *The Brain and Human Meaning* (forthcoming).

“Computer IQ”, *Scientific American 150<sup>th</sup> Anniversary Book* (Holt and Co.). Co-authored with Patricia Churchland.

“Our Three-Pound Engine,” *Times Higher Education Supplement* (April 14).

### 1996

“The Rediscovery of Light”, *Journal of Philosophy*, May, 1996: 211-228.

**Reprinted:** (1999) in A. Clark and J. Toribio, eds., *Artificial Intelligence and Cognitive Science: Conceptual Issues* (Hamden: Garland Publ. Co., 1999).

**Reprinted:** (2002) in D. Chalmers, ed., *Philosophy of Mind: Classical and Contemporary Readings* (Oxford: Oxford University Press).

**Reprinted:** (2005) a German translation in Metzinger, T., ed., *A Course in the Philosophy of Mind* (Berlin: Mertin Verlag).

“Learning and Conceptual Change: The View from the Neurons”, in Clark, A., ed., *Essays in Honor of Alan Turing* (Oxford University Press).

## 1997

“Recent Work on Consciousness: Philosophical, Theoretical, and Empirical,” *Seminars in Neurology* 17, no. 2: 101-108. (Coauthored with Patricia Churchland.)

**Reprinted:** (1998) in *Cognitive Studies: Bulletin of the Japanese Cognitive Science Society*, 4, no. 3: 45-55

“Feyerabend, Proliferation, and Recurrent Neural Networks,” *Philosophy of Science: Supplementary Volume I*.

**Reprinted:** (1999) in J. Preston and D. Lamb, eds., *Science’s Worst Enemy?* (Oxford, O.U.P.)

## 1998

“Conceptual Similarity Across Sensory and Neural Diversity: The Fodor-Lepore Challenge Answered,” *Journal of Philosophy*, 95, no. 1, January, 1998).

**Reprinted:** (2001) in Branquinho, J., ed., *The Foundations of Cognitive Science at the End of the T*

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### **Work in Progress:**

A book, entitled *Inner Spaces and Outer Spaces: The New Epistemology*.