

Monday, March 17, 2008
Curriculum Vitae

PATRICIA SMITH CHURCHLAND

Born: July 16, 1943
Citizenship: USA/Canada
Permanent Resident U.S.A.
Married: Paul M. Churchland, Ph. D.
Children: Mark M. Churchland Ph. D. (1972)
Anne K. Churchland (1974)

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Fields Of Specialization

Philosophy of Neuroscience
Philosophy of Mind
Neuroethics

Educational History

University of British Columbia, 1961-65, B.A. (hons.)
University of Pittsburg, 1965-66, M.A.
Oxford University, 1966-69, B. Phil.

Employment History

Assistant Professor, University of Manitoba, 1969-1977
Associate Professor, University of Manitoba, 1977-82
Visiting Member, Institute for Advanced Study, Princeton, 1982-83
Full Professor, University of Manitoba, 1983-84
Full Professor, University of California, San Diego, 1984 -
Adjunct Professor, Salk Institute, 1989 -
UC President's Professor of Philosophy, 1999 -

Academic Awards And Grants

Woodrow Wilson Fellow, 1965-66
British Council Fellow, 1966-67
Canada Council Fellow, 1967-69
Canada Council Research Grant, 1975-76
Woodrow Wilson Faculty Development Award, 1978
Social Sciences and Humanities Research Council Leave Fellowship, 1979-80
Social Sciences and Humanities Research Council Research (SSHRC) Grant, 1979-80.
University of Manitoba SSHRC Research Grant, 1980
University of Manitoba SSHRC Research Grant, 1980-1
Philosopher's Annual (one of ten best articles) 1980
SSHRC Research Time Stipend, 1981-83
Rh Institute Research Grant for Outstanding Contributions to Inter-Disciplinary Research and Scholarship, 1981
SSHRC Department of International Relations Grant, 1982
Soc. Sc. & Hum. Research Council Leave Fellowship, 1983-84
Soc. Sc. & Hum. Research Council Research Grant, 1983-84
UCSD Senate Research Grant 1984-84
UCSD Senate Research Grant 1985-86
UCSD Senate Research Grant 1986-87
UCSD Senate Research Grant 1987-88
National Science Foundation (NSF) Research Grant 1987-1989
James S. McDonnell Research Grant 1988-89
Faculty Research Lecture Award (UCSD) 1988
Chancellor's Associate Award (UCSD) 1988
James S. McDonnell Research Grant 1989-90
UCSD Senate Research Grant 1990-91
UC President's Fellowship in the Humanities 1990-91
MacArthur Foundation Research Fellow, 1991-96
Elected, Academy of Humanism, 1993
Honorary Doctor of Letters, University of Victoria, 1996
Presidential Chair in Philosophy, 1999-Present
Honorary Doctor of Law, University of Alberta, 2007

PUBLICATIONS

Books

Brain-Wise: Studies in Neurophilosophy. (2002) Cambridge, MA: MIT Press.

_____ *Japanese translation (2005) Sozo Shuppan*

On the Contrary : Critical Essays 1987-1997. (1998). Paul M. Churchland and Patricia S. Churchland. Cambridge, MA: MIT Press

The Mind-Brain Continuum (1996). Ed. R. R. Llinas and P. S. Churchland. MIT Press.

Neurophilosophy and Alzheimer's Disease. (1992) Ed. by Y. Christen and P. S. Churchland. Berlin: Springer-Verlag.

The Computational Brain. (1992) P. S. Churchland and T.J. Sejnowski. Cambridge, Mass.: The MIT Press.

Italian Translation, *Il Cervello Computazionale* (1995) il Mulino: Bologna

German Translation, *Grundlagen zur Neuroinformatik und Neurobiologie.* (1997). Vieweg.

Neurophilosophy: Toward a Unified Science of the Mind-Brain. (1986) Cambridge, Mass.: MIT Press.

_____ Finnish translation *Neurofilosofia* (2004) Helsinki: Terra Cognita

_____ Korean Translation (2005) Chulhak Kwa Hyunsil Sa Publishing Co.

Articles

2008

Inference to the best decision. In: *Oxford Handbook of Philosophy and Neuroscience*, ed J. Bickle. OUP.

Human dignity from a Neurophilosophical Perspective, in *Human Dignity and Bioethics: Essays Commissioned by the President's Council on Bioethics*, ed by A. Schulman. 99-121.

2007

Neurophilosophy: The Early years and New Directions. *Functional Neurology.* 22(4): 185-195.

Review of *The Stuff of Thought*, by S.Pinker. *Nature*.

2006

Moral decision-making and the brain. In: *Neuroethics: Defining the Issues in Theory, Practice and Policy*. Ed. J. Illes. Oxford University Press. 3-16.

Do we have free will? *The New Scientist*. 18 November 2006.

Reprint: Can neurobiology teach us anything about consciousness? In: *Philosophy of Cognitive Science: Classical and Contemporary Readings*, ed by D. Chalmers. Oxford University Press (in press).

Reprint: From Descartes to Neural Networks. In: *In the Agora: The Public Face of Canadian Philosophy* pp. 51-53.

Reprint: How Do neurons Know? In: *In the Agora: The Public Face of Canadian Philosophy* pp. 54-59.

Reprint: Could a Machine Think? (with Paul Churchland) *In the Agora: The Public Face of Canadian Philosophy* pp. 70-82.

2005

A neurophilosophical slant on consciousness research. *Progress in Brain Research*. Eds. V.A. Casagrande, R. W. Guillery, & S. M. Sherman and. pp. 285-294

Reprint: A neurophilosophical slant on consciousness research. *Sphinx* 2005.

Moral decision-making and the brain. In: *Neuroethics: Defining the Issues in Research, Practice, and Policy*. Ed by J. Illes. New York: Oxford University Press. pp. 3-16

Reprint: Moral decision-making and the brain: Inaugural Address. In: *Behind and Beyond the Brain*. Proceedings of the Instituicao de utilidade publica. Fundacao Bial. 2005. Pp. 23-39.

Brain Wide Shut, *New Scientist*, 30 April 2005. pp. 46-49.

Brain-based values Review of *The Ethical Brain* by Michael Gazzaniga. *American Scientist*.

2004

How do neurons know? *Daedalus* Winter 2004: On Learning. 42-50.

Cerebro y responsabilidad (translation of Decisions, Responsibility, and the Brain). *Nuevos Aminos del Conocimiento* 2004. Santander Fondacion. Pp. 96 – 116.

Intertheoretica Reduction: A Neuroscientist's Field Guide (translated into Polish: Interteoretska redukcija: podroczni vodnik za nervoznanstvenike) *Analiza* 8(3) 60-72.

2003

Self-representation in nervous systems (reprint). In: *The Self: From Soul to Brain*. Ed. J. LeDoux, J. Debiec & H. Moss. *Annals of the New York Academy of Science*. 1001: 31-38.

The neural mechanisms of moral cognition: A multiple-aspect approach to moral judgment and decision-making. With W. D. Casebeer. *Biology and Philosophy* 18:169-194.

2002

Self-representation in nervous systems, *Science*. Vol. 296: 308-310.

Neural Worlds and Real Worlds, *Nature Reviews/Neuroscience*. 3:903-907.

Neuroscience: Reflections on the Neural Basis of Morality. In: *Neuroethics: Charting the Field*, Ed. J. Illes. Dana Press, November, 2002.

(Reprint) Can neurobiology teach us anything about consciousness? *Editura Akademiei Romane* 26:133-154.

2001

Why Neuroscience Still Needs Pioneers" in *Carving our Destiny: Scientific research Faces a New Millenium*. Ed. Susan Fitzpatrick and John T. Beuer. National Academy of Sciences Publications (Joseph Henry Press). 117-122.

The View from Here: The Nonsymbolic Structure of Spatial Representations (I. Farber, W. Peterman, and P. S. Churchland) in *The Foundations of Cognitive Science*. Ed. by J. Branquinho. Oxford: Oxford University Press.

2000

Foreword to new edition of John von Neumann's book, *The Computer and the Brain*. Yale University Press. pp xi - xxii

1999

"The Mind-Brain Problem" (with Paul M. Churchland) in *The Brain of Homo Sapiens*. Vol. 4 of *Frontiere della Biologica* (Istitutio della Enciclopedia Italiana Treccani). (French and English edition also forthcoming.) Ed. By E. Bizzi, P. Calissano and V. Volterra.

Entries on Dualism, Eliminative Materialism, Emergent Properties, Epiphenomena, Mentalism, Neurophilosophy, Reductionism. In: *Dictionary of Biological Psychology*. Ed. Philip Winn. Routledge Ltd.

1998

“Computation and the Brain” (with Rick Grush) (1998) in *The MIT Encyclopedia of Cognitive Science*. Ed. by R. Wilson. MIT Press.

“What Can We Expect from a Theory of Consciousness?” (1998) in *Advances in neurology: Vol 77. Consciousness: At the Frontiers of Neuroscience*. Eds. H. Jasper, L. Descarries, V. Castellucci, S. Rossignol. Philadelphia: Lippincott-Raven. 19-32.

1997

“Recent Work on Consciousness: Philosophical, Empirical and Theoretical,” *Seminars in Neurology*. 17: 101-108. (With Paul M. Churchland).

Reprinted in *Cognitive Studies: Bulletin of the Japanese Cognitive Science Society*. 4: 45-55.

“Can Neurobiology Teach Us Anything about Consciousness?” (reprinted) (1997) in *The Nature of Consciousness: Philosophical Debates*. Ed. by Block, Flanagan, and Guzeldere. MIT Press. 127-140.

“Brainsy: Nonneural Theories of Conscious Experience.” (1997) in *Consciousness -- Papers for Tucson II*. Edited by S. Hameroff, J. Laukes et al.

“The Neurophilosopher: An Interview with Patricia Smith Churchland,” (1997) in *Imagine There’s No Heaven; Voices of Secular Humanism*. Ed. Matt Cherry, Tom Flynn, and timothy Madigan. Council of Secular Humanism Place for Publication. 95-102.

1996

“Toward a Neurobiology of the Mind.” (1996) in *The Mind-Brain Continuum*. Ed. by Llinas and Churchland. Cambridge, MA: MIT Press. 281-303.

“The Hornswoggle Problem” (1996) *Journal of Consciousness Studies*. 3:402-8.

“Could a Machine Think?” (reprint) (1996) in *Readings in Language and Mind*. Ed. by Geirsson and Lososky. Blackwells. 273-281.

“Feeling Reasons.” (1996) in *Decision-Making and the Brain*. Ed. by A. R. Damasio, H. Damasio and Y. Christen. Berlin: Springer-Verlag. 181-199.

1995

“Machine Intelligence” (1995) P. M. Churchland and P. S. Churchland. Anniversary volume of *Scientific American*.

'Gaps in Penrose's Toiling'. (1995) R. Grush and P. S. Churchland. *Journal of Consciousness Studies*.

(1995) Reprinted in *Conscious Experience*. Ed. by T. Metzinger. Berlin: Schoningh-Verlag.

(1995) Reprinted in *Mind and Brain in the 21st Century*. Edited by C. Maar. Berlin: Rowohlt Verlag.

“Relies to *The Churchland and their Critics*,” (1995). P. M. Churchland and P. S. Churchland Ed. by R. N. McCauley. Oxford: Blackwells.

“Can Neurobiology Teach Us Anything about Consciousness?” (1995) (Expanded version of 1993) in *The Mind, The Brain, and Complex Adaptive Systems*. Ed. by H. J. Morowitz and J. L. Singer. Reading, Mass.: Addison-Wesley.

(1995). Reprinted in *Conscious Experience*. Ed. by T. Metzinger. Berlin: Schoningh Verlag.

“Intertheoretic-Reductionism: A Neuroscientist's Field-Guide,” (reprinted from 1991) in *Nature's Imagination*. Ed. by John Cornwell. Oxford: Oxford University Press.

1994

“Filling In: Why Dennett is Wrong,” (1994). P.S. Churchland and V. S. Ramachandran. In *Dennett and His Critics*. Ed. Bo Dahlbom. Oxford: Blackwells.

Reprinted in *Vancouver Studies in Cognitive Science*. (1994). Ed. S. Davis and K. Akins. Oxford: Oxford UP.

“A Critique of Pure Vision,” (1994). P. S. Churchland, V. S. Ramachandran, and T. J. Sejnowski. In *Large-scale Neuronal Theories of the Brain*. Ed. C. Koch. Cambridge, Mass.: MIT Press.

“Consciousness and the Neurosciences: Philosophical and Theoretical Issues,” (1994). I. Farber and P. S. Churchland. In *The Cognitive Neurosciences*. Ed. Michael Gazzaniga. MIT Press.

“Could a Machine Think?” Paul Churchland and Patricia Churchland. Reprinted in *Thinking Computers and Virtual Persons*. Ed. E. Dietrich Academic Press.

“Inter-theoretic reduction: A neuroscientist's field guide,” (reprinting) Paul Churchland and Patricia Churchland. in: *The Mind-Body Problem: A guide to the current debate*. Ed. by R. Warner and T Szubka. Oxford: Blackwells. 41-54.

1993

“Can Neuroscience Teach us Anything About Consciousness?” P. S. Churchland (1993) Presidential Address, Pacific Division of the American Philosophical Association. In *Proceedings of the APA*.

1992

'Introduction: Neurophilosophy and Alzheimer's Disease'. (1992). Introduction to *Neurophilosophy and Alzheimer's Disease*. Ed. Y. Christen and P. S. Churchland.

“Aristotle on Memory,” (1992). Patricia Smith Churchland and Georgios Anagnostopoulos. For *The Encyclopedia of Learning and Memory*. General Editor, L. Squire.

“Silicon brains,” (1992). T. J. Sejnowski and P. S. Churchland. *Byte*, October, 1992.

“Computation in the Age of Neuroscience.” (1992). T. J. Sejnowski and P. S. Churchland. *The New Computation*. Ed. D. Hillis. MIT Press.

1991

“Intertheoretic Reduction: A Neuroscientist's Field Guide,” (1991). Paul M. and Patricia S. Churchland. *Seminars in the Neurosciences*. 2: 249 - 256.

Reprinted in *Neurophilosophy and Alzheimer's Disease* (1991). Ed. Y. Christen and P. S. Churchland. Springer-Verlag.

Reprinted in *Modelos Cognitivos de la Mente: Investigacion Interdisciplinaria en Ciencia Cognitiva*. (1992) Ed. J. L. Diaz and E. Villanueva. Universidad Nacional Autonoma de Mexico

“Our Brains, Ourselves: Reflections on Neuroethical Questions,” (1991). In *Bioscience and Society*. Ed. D.J. Roy, B. E. Wynne, and R. W. Old. Wiley & Sons.

1990

“Is Neuroscience Relevant to Philosophy?” (1990). In *Canadian Philosophers*. Ed. D. Copp. University of Toronto Press.

Reprinted as 'Les Neurosciences Concernent-Elles La Philosophie?' (1991). In: *Philosophie De L'Esprit Et Sciences Du Cerveau*. Ed. Jean-Noel Missa. Librairie Philosophique J. Vrin. (Paris)

“What is computational neuroscience?” (1990). With T.J. Sejnowski and C. Koch. In *Computational Neuroscience*. Ed. E. Schwartz. Cambridge, Mass.: MIT Press.

“Could a Machine Think? Recent Arguments and New Prospects,” (1990). With P.M. Churchland. *Scientific American*.

Reprinted in *The Intentionality of Machines*. Ed. E. Dietrich. Oxford: Blackwells.

1989

“Neural Representation and Neural Computation,” (1989). With T.J. Sejnowski. In *Biological Computation and Mental Representation*. Ed. L. Nadel. Cambridge, Mass.: MIT Press, 15-48.

Reprinted in *Philosophy of Mind and Action Theory* (1991). Ed. James Tomberlin, Ridgeview Publishing: Altascadero, CA.

Reprinted in *From Reading to Neurons*. (1989). Ed. A. Galaburda. Cambridge, Mass.: MIT Press, 217-254.

“Brain and Cognition,” (1989). With T. J. Sejnowski. *Foundations of Cognitive Science*. Ed. M. Posner. Cambridge, Mass.: MIT Press.

“From Descartes to Neural Networks,” (1989). *Scientific American* 261: 118.

1987-1988

“Reductionism and the Neurobiological Basis of Consciousness.” (1988). In *Consciousness in Contemporary Science*. Ed. A. M. Marcel and E. Bisiach. Oxford: Oxford University Press, 273-304.

“The Significance of Neuroscience for Philosophy.” (1988). *Trends In Neurosciences*, 11: 304-307.

“Replies to Corballis and to Bishop.” (1988). *Biology and Philosophy* 3, 393-402.

“Computational Neuroscience.” (1988). T.J. Sejnowski, C. Koch, and P. S. Churchland. *Science*, 241:1299-1306.

Reprinted in *Encyclopedia of Neuroscience* (1988).

Reprinted in *Connectionist Modeling and Brain Function: The Developing Interface*. C. R. Olson. Cambridge, Mass.: MIT Press.

“Perspectives on Cognitive Neuroscience.” (1988). P. S. Churchland and T. J. Sejnowski. *Science* 242:741-745.

Reprinted in *From Molecules To Minds*. (1990). Ed. Katrina Kelner, American Association for the Advancement of Science.

Reprinted in *Perspectives on Cognitive Neuroscience*. (1991). Ed. Lister and Weingartner. Oxford: Oxford University Press. 3-23.

“Epistemology in the Age of Neuroscience.” (1987). *The Journal of Philosophy*, 84, 544-552.

1983-86

“Replies to Commentaries on Neurophilosophy.” (1986). *Inquiry*, 29, 241-272. (This issue of *Inquiry* is devoted to a symposium on *Neurophilosophy*.)

“Psychology and the Study of the Mind-Brain: Reply to Carr, Brown, and Sudevan.” (1984). *Neuroscience* 13, 1401-1404.

'Stalking the Wild Epistemic Engine.' (1983). With P. M. Churchland. *Nous*, 17, 5-18. (Symposium for the American Philosophical Association, Western Division, Chicago, March 1983.)

Reprinted in *Mind and Cognition*. (1990). Ed. W. Lycan. Oxford: Blackwells. 300-311.

"Consciousness: The Transmutation of a Concept." (1983). *Pacific Philosophical Quarterly* 64, 80-95.

"Content: Semantic and Information-Theoretic." (1983). With P. M. Churchland *The Behavioral and Brain Sciences*.

"Is the Visual System As Smart As It Looks?" (1983). In *Proceedings of the Philosophy of Science Association, Symposia* Vol 2. 541-552.

"Ojemann's Data: Provocative but Mysterious." (1983). *The Behavioral and Brain Sciences* 6, 211-212.

"Dennett's Instrumentalism: A Frog at the Bottom of the Mug." (1983). *The Behavioral and Brain Sciences* 6, 358-9.

1980-1982

"Mind-Brain Reduction: New Light From the Philosophy of Science." (1982). *Neuroscience* 7, 1041-1047.

"Is Determinism Self-Refuting?" (1981). *Mind* 90, 99-101.

"On the Alleged Backwards Referral of Experiences And Its Relevance to the Mind-Body Problem." (1981). *Philosophy of Science*. 165-181.

"How Many Angels?" (1981). *The Behavioral and Brain Sciences* 4, 236.

"Functionalism, Qualia and Intentionality." (1981). With P. M. Churchland. *Philosophical Topics* 12, 121-145.

Reprinted in *Mind, Brain, and Function*. (1982). Ed. R. Shahan and J. Biro. Norman, OK: University of Oklahoma Press.

"The Timing of Sensations: Reply to Libet." (1981). *Philosophy of Science* 492-497.

"A Perspective on Mind-Brain Research'. (1980) *The Journal of Philosophy* 77, 185-207.

Reprinted in *The Philosopher's Annual*. (1981). Ed. D. L. Boyers, R. Grim and T. J. Saunders. Ridgeview California: Ridgeview Publishing Co., 1-24.

"Language, Thought, and Information Processing." (1980). *Nous* 14, 147-170.

"Neuroscience and Psychology: Should the Labor Be Divided?" (1980). *The Behavioral and Brain Sciences* 3, 133.

1974-1978

"Fodor on Language Learning." (1978). *Synthese* 38, 149-159.

- “The Virtuosity of the Sensory Cortex and the Perils of Common Sense.” (1978). With P.M. Churchland. *The Behavioral and Brain Sciences* 1, 144.
- “Internal States and Cognitive Theories.” (1978). With P.M. Churchland. *The Behavioral and Brain Sciences* 1, 348.
- “How Quine Perceives Perceptual Similarity.” (1976). *Canadian Journal of Philosophy* 6, 251-255.
- “Logical Form and Ontological Decision.” (1974). *The Journal of Philosophy* 71 (Abstract) 599-600.

Reviews

- Review of *The Stuff of Thought*, by Steven Pinker, (2007) *Nature*.
- Review of *The Ethical Brain* by Michael Gazzaniga, (2006) *The American Scientist*
- Review of *Memory and Brain* by Larry Squire. (1990). *Philosophy of Science*.
- Review of *Computational Models of Mind: Computational Approaches in Theoretical Psychology* by Margaret Boden. (1988). *Nature* 334, 22-23.
- Review of *Philosophy and the Brain* by J. Z. Young. (1987). *Nature* 326, 905-906.
- “Leap Frog Over The Brain.” (1987). Review commentary in multiple book reviews of *Vaulting Ambition* by Philip Kitcher. *The Behavioral and Brain Sciences* 10, 73.
- Review of *From Folk Psychology to Cognitive Science* by Stephen P. Stich. (1985). *The Philosophical Review*, 418-420.
- Review of *Mind and Brain*, ed. J. Eccles. (1984). *The Quarterly Review of Biology* 59, 55-56.
- Review of *Human Inference: Strategies and Shortcomings in Social Judgment* by Richard Nisbett and Lee Ross. (1983). *Canadian Philosophical Reviews* 2, 240-242.
- Review of *Psychological Models and Neural Mechanisms* by Austen Clark. (1982). *The Journal of Philosophy* 79, 98-111.
- Review of *The Language of Thought* by J. A. Fodor. (1980). *Nous* 14, 120-124.
- Review of *Anatomy of Knowledge*, ed. M. Grene. (1969). *Oxford Magazine*, 15-17.

Professional Societies

Society for Neuroscience

Philosophy of Science Association

American Philosophical Association

Society for Philosophy and Psychology

Offices

President, 1984-85, Society for Philosophy and Psychology

Board of Governors, Philosophy of Science Association 1985-87.

Program Committee 1984, Philosophy of Science Association

Board of Governors, Canadian Philosophical Association 1978-1980.

President, American Philosophical Association - Pacific Division. 1992-93.

Chair of Executive Board, Institute for Neural Computation (UCSD) 1994 --

Board of Advisors Swartz Center for Computational neuroscience (USCD) 2000 –

Dana Alliance for Brain Initiatives 2003 -