

# Curriculum Vitae

Alexandre Pouget  
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Date of birth: April 17, 1966  
Nationality: French .  
Permanent resident, USA.

## Education

1985-1990 Student at the Ecole Normale Supérieure de Paris

1987 B.A., Cellular Biology  
University Paris VI, France

1988 M.S., Neuroscience  
University Paris VI, France

1994 Ph.D. Biology  
University of California, San Diego

1994-1996 Post-Doctorate Fellow  
University of California, Los Angeles

1996-1998 Assistant Professor  
Georgetown University  
Institute for Cognitive and Computational Sciences

1999-2002 Assistant Professor  
Brain and Cognitive Science Dept.  
University of Rochester

2002- Associate Professor  
Brain and Cognitive Science Dept.  
University of Rochester

## Research Experience

1986-1988 Laboratory of Michel Imbert

University Paris VI  
Paris, France

1988-1994      Laboratory of Terrence J. Sejnowski  
The Salk Institute  
La Jolla, California

1994-1996      Laboratory of John Schlag  
Brain Research Institute  
University of California, Los Angeles

1996-1999      Laboratory of Computational Cognitive Neuroscience  
Institute for Cognitive and Computational Sciences  
Georgetown University, Washington DC

1999-            Laboratory of Computational Cognitive Neuroscience  
Department of Brain and Cognitive Sciences.  
University of Rochester. Rochester, NY.

### **Awards and Fellowships**

1985-1988      Fellowship from the French ministry of education as a student of the Ecole Normale Supérieure. Awarded to the top 20 biology students in France.

1988-1989      Pre-Doctoral Fellowship from the George Lurcy Foundation.

1989-1990      Fellowship from the French ministry of education as a student of the Ecole Normale Supérieure.

1990-1994      Pre-Doctoral Training grant from the McDonnell-Pew Center for Cognitive Neuroscience in San Diego.

1994-1996      Post-Doctoral Training grant from the McDonnell-Pew Foundation

1998-2003      NIH Grant R29

1999-2002      Research grant from the McDonnell-Pew Foundation

2000-2002      Research grant from the Alfred P. Sloan Foundation

2000-2003      ONR Young Investigator Award

2000-2001      Award from the Schmitt Foundation. Co-PI Marc Schieber.

2001-2002      Award from the Schmitt Foundation. Co-PI Charles Duffy

2002            Invited Professor at the Ecole Normale Supérieure (Chaire Condorcet). Paris. France.

### **Teaching Experience**

Fall 1989        Teaching Assistant  
Introduction to Neurobiology

	Instructor: W. Harris. Biology Department. UCSD
Winter 1991	Teaching Assistant Introduction to Neurobiology Instructor: W. Harris. Biology Department. UCSD
Winter 1992	Teaching Assistant Neurobiology Laboratory Instructor: A. Selverston. Biology Department. UCSD
Spring 1994	Teaching Assistant System Neurobiology Instructor: T.J. Sejnowski. Biology Department. UCSD
Spring 1994	Teaching Assistant Computational Neurobiology Instructor: T.J. Sejnowski. Biology Department. UCSD
Spring 1998	Introduction to Computational Neuroscience Georgetown University
Spring 2000	From Spikes to Behavior University of Rochester
1999-2004	Neural Foundations of Behavior University of Rochester
2001-2004	Computational Neuroscience University of Rochester

## Organization of Meetings and Workshops

- Workshop on "Population Coding". Neural Information Processing Conference. December 1996. Co-organized with Rich Zemel and Peter Dayan.
- Workshop on "Nonlinear Dynamical Vision: Lessons from Striate Cortex." Neural Information Processing Conference. December 1997. Co-organized with Dawei Dong and Bartlett W. Mel.
- Neuroscience Chair. Neural Information Processing Conference. Denver, 1998.
- Neuroscience Chair. Neural Information Processing Conference. Denver, 1999.
- Symposium of the Center for Visual Science at the University of Rochester. "Neural Coding". Co-organized with Mary Hayhoe and Mike Weliky. 2000.
- Workshop on "Multisensory integration". Conference of the Society for Cognitive Neuroscience. San Francisco. 2000.
- Conference on "Neural Networks and Cognition", being held at the Banbury Center of the Cold Spring Harbor Laboratory on September 10-13, 2000. Co-organized with Anthony Zador (Cold Spring Harbor Laboratory), Zachary Mainen (Cold Spring Harbor Laboratory) and funded by Jeffrey Hawkins (Handspring Inc.)

- Neural Information Coding 2002. Les Houches. France. Co-organized with Zachary Mainen (Cold Spring Harbor Laboratory) and Jean-Pierre Nadal (Ecole Normale Supérieure).
- Joint Meeting of National Academy of Sciences of the USA and China. Irvine, Sept 2002.
- Computational System Neuroscience conference 2004. Cold Spring Harbor Laboratory. Co-organized with Carlos Brody (Cold Spring Harbor Laboratory), Mike Shadlen (University of Washington, Seattle) and Tony Zador (Cold Spring Harbor Laboratory). March 2004.
- Okinawa international workshop in computational neuroscience. Nov 2004. Okinawa, Japan. Co-organized with Kenji Doya (RIKEN) and Rajesh Rao (University of Washington).
- Computational System Neuroscience conference 2005. Salt Lake City-Snowbird. Co-organized with Carlos Brody (Cold Spring Harbor Laboratory), Mike Shadlen (University of Washington, Seattle) and Tony Zador (Cold Spring Harbor Laboratory). March 2004.
- Neural Information Coding 2005. Bangalore, India. Co-organized with Zachary Mainen (Cold Spring Harbor Laboratory) and Daphne Bavelier (University of Rochester).

## **Reviews for Journals and Funding Agencies**

- Advances in Neural Information Processing Systems
- Cerebral Cortex
- Cognitive Neuropsychology
- National Foundation of Science
- National Institute of Health
- Journal of Cognitive Neuroscience
- Journal of Computational Neuroscience
- Journal of Mathematical Psychology
- Journal of Neurophysiology
- Journal of Neuroscience
- Nature
- Nature Neuroscience
- Nature Review
- Neural Computation
- Neuron
- Network

- Perception
- Psychological Bulletin
- Vision Research
- Science

### **Professional Organizations**

- Society for Neuroscience
- Society for Cognitive Neuroscience
- Society for the Neural Control of Movement
- Center for Visual Science, University of Rochester
- Visual Science Society

### **Invited Talks**

- University of California, San Diego. Symposium on Neural Computation, May 1991.
- Workshop on classical versus connectionist approaches to vision. Neural Information Processing Conference. December 1991.
- University Paris VI. Institute for Neurosciences. January 1992.
- Workshop on processing of visual and auditory space and its modification by experience. Neural Information Processing Conference. 1993.
- University of California, San Diego. Joint Symposium UCSD-Caltech on Neural Computation. May 1994.
- CNRS laboratory. Marseille. France. May 1995.
- Faculté de Medecine de Rangueil. Toulouse. France. May 1995.
- University of California, Los Angeles. Psychology Department. May 1995.
- Harvard University. Psychology Department. October 1995.
- Carnegie Mellon University. Psychology Department. October 1995.
- University of Southern California. October 1995.
- Caltech University. October 1995.
- University of California, Davis. Center for Neuroscience. October 1995.

- University of California, Davis. Psychology department. October 1995.
- University of California, Los Angeles. Psychology Department. November 1995.
- Workshop of the Neural Information Processing Conference. 1995.
- Georgetown University. Georgetown Institute for Cognitive and Computational Sciences. December 1995.
- National Institute of Health. December 1995.
- University of California, Irvine. Psychology Department. January 1996.
- University of California, Los Angeles. Psychology Department. May 1996.
- Brandeis University. Psychology Department. May 1996.
- Dartmouth University. Psychology Department. May 1996.
- McDonnell-Pew Foundation Annual Board meeting. Boston. June 1996.
- Biological and Artificial Motor Systems workshop. Brandeis. June 1996.
- Workshop of the Neural Information Processing Conference. December 1996.
- Oxford University. October 1997.
- University College of London. October 1997.
- Georgetown University Medical School. Neurology Department. November 1997.
- Workshop of the Neural Information Processing Conference. December 1997.
- University of Rochester. January 1998.
- Rutgers University. January 1998.
- University of Maryland, College Park. February 1998.
- MIT. Boston. February 1998.
- University of Rochester. March 1998.
- New York University. April 1998.
- Conference on Neural Control of Movements. Satellite Symposium on Computational Modelling. April 1998.
- Conference on Modeling Neuropsychological Disorders. June 1998.
- National Institute of Health. June 1998.
- California Institute of Technology. September 1998.

- Johns Hopkins University. Mind Brain Institute. October 1998.
- Workshop of the Neural Information Processing Conference. December 1998.
- University College of London. December 1998.
- Visual Attention workshop. Catalina Island. January 1999.
- Neural Information Coding conference. March 1999.
- Computational Neuroscience Conference of the Schwarz Foundation. Cold Spring Harbor. April 1999.
- Cognitive Neuroscience Institute. Lyon. France. May 1999.
- Sloan center for theoretical neurobiology. The Salk Institute. San Diego. June 1999.
- Neuromorphic Engineering Summer School. Telluride. July 1999.
- Workshop on multisensory integration. Oxford. October 1999.
- Symposium at the Conference of the Society for Neuroscience. October 1999.
- Baylor College of Medicine. Houston. March 2000.
- Conference of the Cognitive Neuroscience Society. April 2000.
- Sloan Foundation Workshop on Gain Fields. Monterey. May 2000.
- University of Bochum. Germany. May 2000.
- Conference of the Schwarz Foundation on attention and consciousness. Cold Spring Harbor. May 2000.
- Symposium on Neural Coding. University of Rochester. June 2000.
- Workshop of Spatial Representations. University College of London. UK. June 2000.
- Workshop on Neural Networks and Cognition. Cold Spring Harbor. September 2000.
- Center for Adaptive Systems. Boston University. October 2000.
- University of California, Irvine. February 2001.
- Northwestern University, Chicago. February 2001.
- The McDonnell-Pew Project in Philosophy and Neuroscience. Tofino, Canada. June 2001.
- Joint Meeting of National Academy of Sciences of the USA and China. Beijing, China. Sept 2001.
- Workshop on “Genesis of perception and the notion of space in machines and humans”. Paris. October 2001.

- Neuroscience and Computation. Winter school. Institut Henri Poincaré. Paris, France. Jan-March 2002.
- Multisensory integration. Treilles Foundation, France. May 2002.
- University Paul Sabatier. Toulouse, France. June 2002.
- Computational Neuroscience Workshop. Institut Henri Poincaré. Paris, France. April 2002.
- Johns Hopkins Medical School. BME dept. October 2002.
- Montreal University. Physiology Dept. November 2002.
- Machine Learning Workshop. The Canadian Institute for Advanced Research. December 2002.
- Washington University. St Louis. May 2003.
- Cold Spring Harbor Laboratory. June 2003.
- Sensorimotor Workshop. Rome. June 2003.
- Caltech. Pasadena. October 2003.
- Cold Spring Harbor Laboratory. October 2003.
- Multidisciplinary Conference. February 2004.
- Stanford. May 2004.
- Redwood Neuroscience Institute. Menlo Park. May 2004.

## **Publications**

### **Research Articles**

- Trotter, Y., Beaux, J.C., Pouget, A., Imbert, M. Temporal limits of the susceptibility of depth perception to proprioceptive deafferentations of extraocular muscles. *Developmental Brain Research*, 59:23-29. 1991.
- Pouget, A. and Thorpe, S.J. Connectionist Model of Orientation Identification. *Connection Science*, 3 (2):127-142. 1991.
- Pouget, A. and Sejnowski, T.J. A Distributed common reference frame for egocentric space in the PPC. Commentary on target article: Posterior Parietal Cortex and Egocentric Space, J.F. Stein. *Behavioral and Brain Sciences*, 15(4):787. 1992.
- Schwarz, G. and Pouget, A. Signals, Brain and Explanations. Commentary on target article: implication of neural network for how we think about the brain function. D.A. Robinson. *Behavioral and Brain Sciences*, 15(4):795. 1992.

- Pouget, A., Fisher, S. and Sejnowski, T.J. Egocentric representation in early vision. *Journal of Cognitive Neuroscience*, 5(2):150-161. 1993.
- Pouget, A. and Sejnowski, T.J. The cortical representation of egocentric distance. *Cerebral Cortex*, 4(3):314-329. 1994.
- Pouget, A., and Sejnowski, T.J. Spatial transformations in the parietal cortex using basis functions. *Journal of Cognitive Neuroscience*. 9(2):222-237. 1997.
- Cai, R.H., Pouget, A., Schlag-Rey, M. and Schlag, J. Perceived geometrical relationships affected by eye movement signals. *Nature*. 386:601-603. 1997.
- Schlag, J., Pouget, A., Schlag-Rey, M. and Saderghpour, S. Interaction between natural and electrically evoked saccades. III. Is the compensation by collicular stimulation due to a feedback integrator not yet reset? *Journal of Neurophysiology*. 79:903-910. 1998.
- Pouget, A., Zhang, K., Deneve, S. and Latham, P.E. Statistically efficient estimation using population code. *Neural Computation*, 10:373-401. 1998.
- Bremmer, F., Pouget, A., Lappe, M. and Hoffmann, K. Eye position effects in monkey cortex. III. Representation of gaze direction at the population level. *European Journal of Neuroscience*. 10(1):153-160. 1998.
- Gray, M.S., Pouget, A., Zemel, R.S., Nowlan, S.J., and Sejnowski, T.J. Reliable disparity estimation through selective integration. *Visual Neuroscience*. 15:511-528. 1998.
- Zemel, R.S., Dayan, P., and Pouget, A. Probabilistic interpretation of population code. *Neural Computation*, 10:403-430. 1998.
- Pouget, A., Deneve, S., Ducom, J.C. and Latham, P.E. Narrow vs wide tuning curves: what's best for a population code? *Neural Computation*. 11:85-90. 1998.
- Deneve, S., Latham, P.E. and Pouget, A. Reading population codes: a neural implementation of ideal observers. *Nature Neuroscience*. 2(8):740-745. 1999.
- Driver, J., and Pouget, A. Object-centered visual neglect, or relative egocentric neglect? *Journal of Cognitive Neuroscience*. 12(3):542-545. 2000.
- Pouget, A. and Driver, J. Relating Unilateral Neglect to the Neural Coding of Space. *Current Opinion in Neurobiology*. 10(2):242-249. 2000.
- Pouget, A., Zemel, R.S., and Dayan, P. Information processing with population codes. *Nature Review Neuroscience*. 1(2):125-132. 2000.
- Pouget, A., and Snyder, L. Computational approaches to sensorimotor transformations. *Nature Neuroscience*. 3:1192-1198. 2000
- Deneve, S., Latham, P.E. and Pouget, A. Efficient computation and cue integration with noisy population codes. *Nature Neuroscience*. 4(8):826-831. 2001.
- Pouget, A., and Sejnowski, T.J. Simulating a lesion in a basis function model of spatial representations: comparison with hemineglect. *Psychological Review*. 108: 653-673. 2001.
- Pouget, A., Ducom, J.C., Torri, J. and Bavelier, D. Multisensory spatial representations in eye-centered coordinates. *Cognition*. 83:B1-B11. 2002.

- Pouget, A., Deneve, S and Duhamel, J.R. A Computational Perspective on the Neural Basis of Multisensory Spatial Representations. *Nature Review Neuroscience*. 3:741-747. 2002.
- Pouget, A. and Latham, P.E. Digitized neural networks: long term stability from forgetful neurons. *Nature Neuroscience*. 5(8):709-10. 2002
- Deneve, S. and Pouget, A. Basis functions for object-centered representations. *Neuron*. 37:347-359. 2003.
- Pouget, A., Dayan, P. and Zemel, R.S. Computation and inference with population codes. *Annual Review Neuroscience*. 26:381-410. 2003.
- Ben Hamed, S., Page, G., Duffy, C. and Pouget, A. MSTd Neuronal Basis Functions for the Population Encoding of Heading Direction. *Journal of Neurophysiology*. 90(2):549-58. 2003.
- Latham, P.E., Deneve, S., Pouget, A. Optimal computation with attractor networks. *Journal of Physiology (Paris)*. 97(4-6): 683-694. 2003.
- Deneve, S., Pouget, A. Bayesian multisensory integration and cross-modal spatial links. *Journal of Physiology (Paris)*. In press.
- Series, P., Latham, P. and Pouget, A. Statistical efficiency of orientation selectivity models. *Nature Neuroscience*. In press.
- Banerjee, A., Series, P., and Pouget, A. Dynamical constraints on using precise spike timing to compute in recurrent cortical networks. Submitted.
- Knill, D., and Pouget, A. Humans as Bayesian perceivers and actors: Implications for neural computation. *Trends in Neuroscience*. Submitted.
- Deneve, S., Pouget, A., and Duhamel, J.R. A new model of spatial representation in multi-sensory brain areas. In preparation.

## Refereed Conference Proceedings

- Pouget, A., Fisher, S. and Sejnowski, T.J. Hierarchical Representation of Space in the Visual System. Moody, J.E.; Hanson, S.J. and Lippmann, R.P (eds), *Advances in Neural Information Processing Systems*. 4. San Mateo, CA: Morgan Kaufmann Publishers. 1992.
- Montague, P.R., Dayan, P., Nowlan, S.J., Pouget, A. and Sejnowski, T.J. Using aperiodic reinforcement for directed self-organization. Hanson, S.J., Cowan, J.D. and Giles, C.L. (eds), *Advances in Neural Information Processing Systems*. 5. San Mateo, CA: Morgan Kaufmann Publishers. 1993.
- Pouget, A., Deffayet, C. and Sejnowski, T.J. Reinforcement learning predicts the site of plasticity for auditory remapping in the barn owl. Tesauro, D. S. Touretzky and T. K. Leen, (eds), *Advances in Neural Information Processing Systems*. 7. MIT Press, Cambridge MA, 1995.
- Pouget, A., and Sejnowski, T.J. Spatial representations in the parietal cortex may use basis functions. Tesauro, D. S. Touretzky and T. K. Leen, (eds), *Advances in Neural Information Processing Systems*. 7. MIT Press, Cambridge MA, 1995.

- Pouget, A., and Sejnowski, T.J. A Model of parietal cortex explains hemineglect. Touretzky, D.S.; Mozer, M.C. and Hasselmo, M.E. (eds). *Advances in Neural Information Processing Systems*. 8. MIT Press, Cambridge MA, 1996.
- Pouget, A. and Zhang, K. Statistically efficient estimation using cortical lateral connections. Mozer, M.C.; Jordan, M.I. and Petsche, T. (eds), *Advances in Neural Information Processing Systems*. 9. MIT Press, Cambridge MA. 1997. In Press.
- Gray, M.S., Pouget, A., Zemel, R.S., Nowlan, S.J., and Sejnowski, T.J. Selective Integration: a Model for Disparity Integration. Mozer, M.C.; Jordan, M.I. and Petsche, T. (eds), *Advances in Neural Information Processing Systems*. 9. MIT Press, Cambridge MA. 1997.
- Zemel, R.S., Dayan, P., and Pouget, A. Population Code Representations of Probability Density Functions. Mozer, M.C.; Jordan, M.I. and Petsche, T. (eds), *Advances in Neural Information Processing Systems*. 9. MIT Press, Cambridge MA. 1997.
- Deneve, S. and Pouget, A. Neural Basis of Object-Centered Representations. Jordan, M.I., Kearns, M.J., and Solla, S. (eds). *Advances in Neural Information Processing Systems*. 10. MIT Press, Cambridge MA. 1998.
- Deneve, S. Pouget, A. and Latham, P. Heeger's Normalization, Line Attractor Networks and Ideal Observers. *Advances in Neural Information Processing Systems*. 11. 1999.
- Deneve, S., Duhamel, J.R., Pouget, A. A new model of spatial representations in multimodal brain areas. *Advances in Neural Information Processing Systems*. 11. 2001.
- Banerjee, A. and Pouget A. Dynamical constraints on computing with spike timing in the cortex. *Advances in Neural Information Processing Systems*. 13. 2003.

## Book Chapters

- Thorpe, S.J. and Pouget A. Coding of Orientation by the Visual Cortex: Neural Network Modelling. Pfeifer R. (ed), *Connectionism in Perspective*, Amsterdam: Elsevier. 1989.
- Thorpe, S.J., O'Regan K. and Pouget A. Human Fails on XOR Pattern Classification Problems. Personnaz L. and Dreyfus G. (eds), *Neural Networks: From Model to Applications*, Paris, IDSET, 12-25. 1989.
- Lehky, S.R., Pouget A., Sejnowski T.J. Neural Models of Binocular Depth Perception. Cold Spring Harbor Symposium on Quantitative Biology. 55: 765-777. 1990.
- Pouget, A. and Sejnowski, T.J. Dynamical Remapping. In *The Handbook of Brain Theory and Neural Networks*. Arbib, M.A. (ed). Boston: MIT Press. 1995.
- Pouget, A. and Sejnowski, T.J. Lesion in a Basis Function Model of Spatial Representations: Comparison with Hemineglect. In "Parietal lobe contribution in orientation in 3D space". Thier, P. and Karnath, H.O. (eds). Springer Verlag. 1997.
- Pouget, A. and Sejnowski, T.J. A New View of Hemineglect Based on the Response Properties of Parietal Neurons. *Philosophical Transactions of the Royal Society: Series B* 352. 1997.
- Pouget, A. and Sejnowski, T.J. A New View of Hemineglect Based on the Response Properties of Parietal Neurons. *Philosophical Transactions: Biological Sciences*. In ``Spatial Functions of the

- Hippocampal Formation and the Parietal Cortex". Neil Burgess, Kathryn Jeffery and John O'Keefe (eds). Oxford University Press. 1998.
- Pouget, A. and Driver, J. Visual Neglect. In "MIT Encyclopedia of Cognitive Sciences". Wilson, R. and Keil, F. (eds). MIT Press. 1999.
  - Pouget, A., Deneve, S. and Sejnowski, T.J. Frames of reference in hemineglect: a computational approach. In "Neural modeling of brain disorders". Progress in Brain Research. 121:81-97. Jim Reggia, Eytan Ruppin and Dennis Glanzman (eds). Elsevier. 1999.
  - Pouget, A. Zhang, K., Deneve, S., and Latham, P.E. Statistically efficient estimation using population code. In "Population Coding". Abbott, L. and Sejnowski, T.J. (eds). MIT Press. 1999.
  - Pouget, A., Deneve, S., and Latham, P.E. Fisher Information: Relevance for Theories of Cortical Computation and Visual Attention. In "Visual Attention and Neural Circuits". Braun, J., Koch, C. and Davis, J. (eds). 2000.
  - Pouget, A. and Sejnowski, T.J. Dynamical Remapping. In "The Handbook of Brain Theory and Neural Networks". 2nd edition. Arbib, M.A. (ed). Boston: MIT Press. 2003.
  - Pouget, A. and Latham, P. Population codes. In "The Handbook of Brain Theory and Neural Networks". 2nd edition. Arbib, M.A. (ed). Boston: MIT Press. 2003.
  - Pouget, A., Deneve, S. and Duhamel, J.R. A computational neural theory of multisensory spatial representations. In "Multisensory Integration". Driver, J. and Spence, C. (eds). In press.
  - Pouget, A. and Snyder, L. Modeling coordinate transforms. Nature Encyclopedia for Cognitive Science. 2003.

## Abstracts

- Pouget, A., Beaux J.C. et Trotter Y. Période critique du développement de la perception de profondeur a la section unilatérale des afférences proprioceptives des muscles extraoculaires chez le chaton. [Critical period for the development of depth perception to unilateral proprioceptive deafferentation of extraocular muscles] Association des Physiologistes, Marseille. 1988.
- Thorpe, S.J., Celibrini S., Trotter Y., Pouget A. and Imbert M. Dynamic aspect of orientation coding in area V1 of the awake primate. European Journal of Neuroscience, Suppl. 2, 322. 1989.
- Trotter, Y., Thorpe S.J., Celibrini S., Pouget A. and Imbert M. Processing of orientation in V1 of the awake monkey. Society for Neuroscience Abstracts, Phoenix, AZ. 1989.
- Thorpe, S.J. and Pouget, A. Connectionist models and psychophysics: relating perception with psychophysics. Perception. 19, 402. 1989.
- Pouget, A. and Sejnowski T.J. A Neural network model for computing depth from stereopsis. Assoc. Res. Vis. Ophta., 475. 1990.
- Pouget, A., Fisher, S. and Sejnowski, T.J. Hierarchical representation of space in the visual system. Proceedings of the Symposium of the Institute for Neural Computation, San Diego, CA, UCSD. 1991.

- Pouget, A., Albright, T. and Sejnowski T.J. A Dynamical Model for Computing the Position of an Object from Its Retinal Location and Eye Position. Society for Neuroscience Abstracts, Anaheim, CA. 1992.
- Pouget, A., Montague, P.R., Dayan, P., Sejnowski, T.J. A Developmental Model of Map Registration in the Superior Colliculus Using Predictive Hebbian Learning. Society for Neuroscience Abstracts, Washington, DC. 1993.
- Pouget, A. and Sejnowski, T.J. Is Perception Isomorphic to Neural Activity? Commentary on target article: A theory of visual stability across eye movements, B. Bridgeman and A.H.C. van der Heijden. Behavioral and Brain Sciences. 17:274. 1994.
- Pouget, A. and Sejnowski, T.J. Single Neurons in Posterior Parietal Cortex May Represent Basis Functions for Spatial Transformations. Society for Neuroscience Abstracts. Miami, FL. 1994.
- Pouget, A., Bavelier, D., and Sejnowski, T.J. Lesion in a Basis Function Model of the Parietal Cortex: Comparison with the Hemineglect Syndrome. Society for Cognitive Neuroscience Abstracts. 1995.
- Gray, M.S., Pouget, A., Zemel, R.S., Nowlan, S.J., and Sejnowski, T.J. Filter selection model for disparity estimation and segmentation. Society for Cognitive Neuroscience Abstracts. 1995.
- Pouget, A. and Sejnowski, T.J. Spatial Representations and Basis Functions: from Single Cell Responses to Hemineglect. Proceedings of the workshop on "Parietal Lobe Contribution to Orientation in 3D-Space". Tübingen, Germany. 1995.
- Pouget, A. and Sejnowski, T.J. Basis Functions and Hemineglect. Society for Neuroscience Abstracts. San Diego, CA. 1995.
- Gray, M.S., Pouget, A., Zemel, R.S., Nowlan, S.J., and Sejnowski, T.J. Selective Integration: a Model for Disparity Integration. Society for Neuroscience Abstracts. San Diego, CA. 1995.
- Pouget, A. and Sejnowski, T.J. Spatial Representations, Basis Functions and Hemineglect. In: Proceedings of the Joint Symposium UCSD-Caltech on Neural Computation, Institute for Neural Computation, University of California San Diego, Vol. 5, 1995.
- Cai, R.H., Pouget, A., Schlag-Rey, M. and Schlag, J. Pre-saccadic distortion of 3-dot vernier acuity by an extraretinal signal. Assoc. Res. Vis. Ophta. 1996.
- Pouget, A. and Zhang, K. Cortical lateral connections and maximum likelihood estimation. Proceedings of the Neural Information and Coding workshop. Jackson Hole. 1996.
- Cai, R.H., Pouget, A., Schlag-Rey, M. and Schlag, J. Vernier alignment can be influenced by an extraretinal signal. Society for Cognitive Neuroscience Abstracts. 1996.
- Saderghpour, S., Pouget, A., Schlag-Rey, M. and Schlag, J. Is the deviation of saccades evoked collicular stimulation due to a linear resettable integrator? Society for Neuroscience Abstracts. Washington DC. 1996.
- Zhang, K., Pouget, A. and Dayan, P. Using lateral connections for population coding. Society for Neuroscience Abstracts. Washington DC. 1996.
- Pouget, A. and Zhang, K. A statistical perspective on orientation selectivity in primary visual cortex. Society for Neuroscience Abstracts. Washington DC. 1996.

- Cai, R.H., Pouget, A., Schlag-Rey, M. and Schlag, J. Is pre-saccadic vernier distortion related to peri-saccadic mislocalization? Society for Neuroscience Abstracts. Washington DC. 1996.
- Deneve, S. and Pouget, A. Neuronal object-centered representations: map or gain modulation? Society for Neuroscience Abstracts. New Orleans. 1997.
- Pouget, A. and Ducom, J.C. Noise reduction, discrimination and adaptation in cortical circuits. Society for Neuroscience Abstracts. New Orleans. 1997.
- Deneve, S. and Pouget, A. Neural basis of object-centered representations and implications for hemineglect. Society for Cognitive Neuroscience Abstracts. San Francisco. 1998.
- Deneve, S. Pouget, A. and Latham, P. Heeger's Normalization, Line Attractor Networks and Ideal Observers. Society for Neuroscience Abstracts. Los Angeles. 1998.
- Ducom, J.C.; Torri, J.; Bavelier, D. and Pouget, A. Evidence for a multisensory memory buffer using retinotopic coordinates. Neural Control of Movement Conference. Hawaii. 1999.
- Deneve, S.; Ben Hamed, S.; Bihouée, A.; Duhamel, J.R. and Pouget, A. Parietal cells intermediate between two frames of reference. Society for Neuroscience Abstracts. Miami. 1999.
- Ducom, J.C.; Torri, J.; Bavelier, D. and Pouget, A. Multisensory integration in retinotopic coordinates. Society for Neuroscience Abstracts. Miami. 1999.
- Pouget, A. Coordinates of Multisensory Spatial Memory. Society for Cognitive Neuroscience Abstracts. San Francisco. 2000.
- Deneve, S. and Pouget, A. Spatial representation for sensory motor transforms: remapping or intermediate representations? Society for Cognitive Neuroscience Abstracts. San Francisco. 2000.
- Pouget, A. Efficient Computation and Cue Integration with Population Codes. Sloan workshop on Gain Fields. Pajaro Dunes, CA. 2000.
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