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Vita

Patricia Wenjie Cheng

Personal Information

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310.825.8174 (office)
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Citizenship:

Chinese and U.S.

Education

University of Michigan, 1973-76; 78-80
Ph.D. (1980) in Psychology

Barnard College, 1971-73
B.A., *magna cum laude* (1973) in Psychology

Pomona College, 1970-71

Vassar College, 1969-70

Academic Appointments

Professor, Department of Psychology,
University of California, Los Angeles, 1998-

Associate Professor, Department of Psychology,
University of California, Los Angeles, 1991-1998

Assistant Professor, Department of Psychology,
University of California, Los Angeles, 1986-91

Research Associate, Department of Computer Science,
Carnegie-Mellon University, 1984-86

Research Associate, Department of Psychology,
University of Michigan, 1983-84

Assistant Professor, Department of Psychology,
Chinese University of Hong Kong, 1982-83

Grants and Awards

Fellow of Association for Psychological Science, since 2010
Fellow of the Guggenheim Foundation, 2000

Air Force Office of Scientific Research
Hidden causal structure for reasoning and learning:
Human cognition, machine intelligence, and statistics
Period: 1/2009 – 12/2011
Amount: \$550,000 (direct costs).

National Institute of Mental Health
Title: Natural causal discovery: Learning simple and complex causes
Period: 7/1/2002 – 6/30/2006
Amount: \$400,000.

John Simon Guggenheim Fellow, 2000-2001
Period: 7/1/2000 - 7/1/2001
Amount: \$35,000

National Science Foundation
Title: Natural causal induction
Period: 9/1/1998 – 7/31/2001
Amount: \$183,000

National Science Foundation
Title: Natural causal induction
Period: 4/1/92 - 3/31/94
Amount: \$145,058

National Science Foundation
Title: Inference, instruction, and pragmatic reasoning schemas
Period: 9/1/87 - 8/31/91
Amount: \$125,000

Academic Senate of UCLA Research Award, 7/1/00 - 6/30/01: \$2,000
Academic Senate of UCLA Research Award , 12/8/86 - 6/30/87
UCLA Faculty Career Development Award, 9/88 - 12/88
Academic Senate of UCLA Research Award, 7/1/90 - 6/30/91
Academic Senate of UCLA Research Award, 7/1/94 - 6/30/99
Academic Senate of UCLA Research Award, 7/1/01 - 6/30/02

Primary Interests

causal reasoning
training reasoning and problem solving
concept formation and skill acquisition

Teaching Experience

Chinese University of Hong Kong (undergraduate)

Introduction to Statistics
 Experimental Design
 Learning
 Human Memory

University of Michigan (undergraduate)
 Introduction to Psychology

University of California, Los Angeles
 Undergraduate: Cognitive Psychology
 Cognitive Psychology Laboratory
 Cognitive Science
 Cognitive Science Laboratory
 Thinking
 Graduate: Thinking and Reasoning
 Cognitive Science Laboratory

Current or Previous Member of Editorial Board

American Psychologist, Associate Editor
Cognition
Thinking & Reasoning
Psychological Review

Ad Hoc Reviewer

<i>Cognition & Instruction</i>	<i>Journal of Experimental Social Psychology</i>
<i>Cognitive Development</i>	<i>Journal of Experimental Psychology: General</i>
<i>Cognitive Psychology</i>	<i>Journal of Personality and Social Psychology</i>
<i>Cognitive Science</i>	<i>Memory & Cognition</i>
<i>Journal of Experimental Child Psychology</i>	<i>Psychological Review</i>
<i>Quarterly Journal of Experimental Psychology</i>	
Air Force Office of Scientific Research	
National Science Foundation	

Articles

- Cheng, P. W., & Pachella, R. G. (1984). A psychophysical approach to dimensional separability. *Cognitive Psychology*, 16, 279-304.
- Cheng, P. W. (1985). Restructuring versus automaticity: Alternative accounts of skill acquisition. *Psychological Review*, 92, 414-424.
- Cheng P. W. (1985). Categorization and response competition: Two nonautomatic factors. *Psychological Review*, 92, 583-584.
- Cheng, P. W. (1985). Pictures of ghosts: A critique of Alfred Bloom's *The linguistic shaping of thought*. *American Anthropologist*, 87, 917-922.
- Cheng, P. W., & Holyoak, K. J. (1985). Pragmatic reasoning schemas. *Cognitive Psychology*, 17, 391-416.

- Cheng, P. W., Holyoak, K. J., Nisbett, R. E., & Oliver, L. M. (1986). Pragmatic versus syntactic approaches to training deductive reasoning. *Cognitive Psychology, 18*, 293-328.
- Cheng, P. W., & Carbonell J. G. (1986). The FERMI system: Inducing iterative macro-operators from experience. *Proceedings of 1986 Meeting of the American Association for Artificial Intelligence, 1*, 490-495.
- Nisbett, R.E., Fong, G.T., Lehman, D., & Cheng, P.W. (1987). Teaching reasoning. *Science, 238*, 625-631.
- Cheng, P.W., & Holyoak, K.J. (1989). On the natural selection of reasoning theories. *Cognition, 33*, 285-313.
- Lien, Y., & Cheng, P.W. (1989) A framework for psychological causal induction: Integrating the power and covariation views. *Proceedings of the 11th Annual Conference of the Cognitive Science Society* (pp. 729-833). Hillsdale, NJ: Erlbaum.
- Cheng, P.W., & Novick, L.R. (1990 a). Where is the bias in causal attribution? In K.J. Gilhooly, M. Keane, R. Logie, & G. Erdos (Eds.), *Lines of thinking: Reflections on the psychology of thought* (pp. 181-197). Chichester, UK: Wiley.
- Cheng, P.W., & Novick, L.R. (1990 b). A probabilistic contrast model of causal induction. *Journal of Personality and Social Psychology, 58*, 545-567.
- Cheng, P.W., & Novick, L.R. (1991). Causes versus enabling conditions. *Cognition, 40*, 83-120.
- Cheng, P.W., & Novick, L.R. (1992). Covariation in natural causal induction. *Psychological Review, 99*, 365-382.
- Reprinted in Goldstein, W.M., & Hogarth, R.M. (Eds, 1997). *Research on judgment and decision making: Currents, connections, and controversies*. New York: Cambridge University Press.
- Novick, L.R., Fratianne, A., & Cheng, P.W. (1992). Knowledge-based assumptions in causal attribution. *Social Cognition, 10*, 299-333.
- Cheng, P.W., & Nisbett, R.E. (1993). Pragmatic constraints on causal deduction. In R.E. Nisbett (Ed.), *Rules for reasoning* (pp. 207 - 227). Hillsdale, NJ: Erlbaum.
- Melz, E.R., Cheng, P.W., Holyoak, K.J., & Waldmann, M.R. (1993). Cue competition in human categorization: contingency or the Rescorla-Wagner learning rule? Comments on Shanks (1991). *Journal of Experimental Psychology: Learning, Memory, and Cognition, 19*, 1398-1410.
- Kroger, J. K., Cheng, P.W., & Holyoak, K.J. (1993). Evoking the permission schema: The impact of explicit negation and a violation-checking context. *Quarterly Journal of Experimental Psychology, 46A*, 615-636.

- Wharton, C.M., Cheng, P.W., & Wickens, T.D. (1993). Hypothesis-testing strategies: Why two goals are better than one. *Quarterly Journal of Experimental Psychology*, *46A*, 743-758.
- Cheng, P.W. (1993). Separating causal laws from casual facts: Pressing the limits of statistical relevance. In D.L. Medin (Ed.), *The psychology of learning and motivation*, vol. 30 (pp. 215-264). New York: Academic Press.
- Cheng, P. W., & Holyoak, K. J. (1995). Complex adaptive systems as intuitive statisticians: Causality, contingency, and prediction. In H. L. Roitblat & J.-A. Meyer (Eds.), *Comparative approaches to cognitive science* (pp. 271-302). Cambridge, MA: MIT Press.
- Cheng, P.W., & Lien, Y. (1995). The role of coherence in differentiating genuine from spurious causes. In D. Sperber, D. Premack, & A. J. Premack (Eds.), *Causal cognition: A multidisciplinary debate* (pp. 463-494). New York, NY: Oxford University Press.
- Holyoak, K.J., & Cheng, P.W. (1995 a). Pragmatic reasoning about human voluntary action: Evidence from Wason's selection task. In S. Newstead & J.St. B.T. Evans (Eds.), *Perspectives on thinking and reasoning: Essays in honor of Peter Wason* (pp. 67-89). East Essex, U.K.: Erlbaum.
- Yarlas, A. S., Cheng, P. W., & Holyoak, K. J. (1995). Alternative approaches to causal induction: The probabilistic contrast versus the Rescorla-Wagner model. In J. D. Moore & J. F. Lehman (Eds.), *Proceedings of the 17th Annual Conference of the Cognitive Science Society* (pp. 431-436). Hillsdale, NJ: Erlbaum.
- Holyoak, K.J., & Cheng, P.W. (1995 b). Pragmatic reasoning with a point of view. *Thinking & Reasoning*, *1*, 289-313.
- Holyoak, K. J., & Cheng, P. W. (1995 c). Pragmatic reasoning from multiple points of view: A response. *Thinking & Reasoning*, *1*, 373-388.
- Cheng, P.W., Park, J., Yarlas, A., & Holyoak, K.J. (1996). A causal-power theory of focal sets. In D.R. Shanks, K.J. Holyoak, & D.L. Medin, (Eds.), *The psychology of learning and motivation*, vol. 34: *Causal learning* (pp. 313-355). NY, NY: Academic Press.
- Cheng, P.W. (1997). From covariation to causation: A causal power theory. *Psychological Review*, *104*, 367-405.
- Buehner, M. J., & Cheng, P.W. (1997). Causal induction: The power PC theory versus the Rescorla-Wagner model. In the *Proceedings of the 19th Annual Conference of the Cognitive Science Society* (pp. 55-60). Hillsdale, NJ: Erlbaum.
- Glymour, C., & Cheng, P.W. (1998). Causal mechanism and probability: A normative approach. In M. Oaksford & N. Chater (Eds.), *Rational models of cognition* (pp. 295-313). Oxford, U.K.: Oxford University Press.
- Wu, M., & Cheng, P.W. (1999). Why causation need not follow from statistical association: Boundary conditions for the evaluation of generative and preventive causal powers. *Psychological Science*, *10*, 92-97.

- Cheng, P.W. (2000). Causal reasoning. In R. Wilson & F. Keil (Eds.), *The MIT encyclopedia of cognitive sciences* (pp. 106-108). Cambridge, MA: MIT Press.
- Lien, Y., & Cheng, P.W. (2000). Distinguishing genuine from spurious causes: A coherence hypothesis. *Cognitive Psychology*, *40*, 87-137.
- Cheng, P.W. (2000). Causality in the mind: Estimating contextual and conjunctive causal power. In F. Keil & R. Wilson (Eds.), *Explanation and cognition* (pp. 227-253). Cambridge, MA: MIT Press.
- Chao, J., & Cheng, P.W. (2000). The emergence of inferential rules: The use of pragmatic reasoning schemas by preschoolers. *Cognitive Development*, *15*, 39-62.
- Choplin, J.M., Cheng, P.W., & Holyoak, K.J. (2001). Causal information as a constraint on similarity. In J. Moore & K. Stenning (Eds.), *Proceedings of the 23rd Annual Conference of the Cognitive Science Society* (pp. 240-243). Hillsdale, NJ: Erlbaum.
- Buehner, M., Cheng, P.W., Clifford, D. (2003.) From covariation to causation: A test of the assumption of causal power. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *29*, 1119-1140.
- Novick, L.R., & Cheng, P.W. (2004). Assessing interactive causal influence. *Psychological Review*, *111*, 455-485.
- Ford, E.C., & Cheng, P.W. (2004). Sensitivity to confounding in causal inference: From childhood to adulthood. In K. Forbus, D. Gentner & T. Regier (Eds.), *Proceedings of the 26th Annual Conference of the Cognitive Science Society* (pp. 398-403). Hillsdale, NJ: Erlbaum.
- Buehner, M. & Cheng, P.W. (2005.) Causal learning. In K.J. Holyoak & R.G. Morrison (Eds.), *Cambridge handbook of thinking and reasoning* (pp. 143-168). New York, N.Y.: Cambridge University Press.
- Cheng, P.W., & Novick, L.R. (2005). Constraints and nonconstraints in causal learning: Reply to White (2005) and to Luhmann and Ahn (2005). *Psychological Review*, *112*, 694-707.
- Lu, H., Yuille, A., Liljeholm, M., Cheng, P.W., Holyoak, K.J. (2006). Modelling causal learning using Bayesian generic priors on generative and preventive powers. In R. Sun & N. Miyake (Eds.), *Proceedings of the 28th Conference of the Cognitive Science Society* (pp. 519-524). Austin, TX: Cognitive Science Society.
- Cheng, P.W., Novick, L.R., Liljeholm, M. & Ford, C. (2007). In M. O'Rourke (Ed.), *Topics in contemporary philosophy, Volume 4: Causation and explanation* (pp. 1 - 32). Cambridge, MA: MIT Press.
- Liljeholm, M., & Cheng, P.W. (2007). When is a cause the "same"? Coherent generalization across contexts. *Psychological Science*, *18*, 1014-1021.

- Waldmann, M.R., Cheng, P.W., Hagmayer, Y., and Blaisdell, A.P. (2008). Causal learning in rats and humans: A minimal rational model. In N. Chater & M. Oaksford (Eds.), *Rational models of cognition* (pp. 453-484). Oxford, U.K.: Oxford University Press.
- Lu, H., Yuille, A., Liljeholm, M., Cheng, P.W., & Holyoak, K.J. (2008). Bayesian generic priors for causal learning. *Psychological Review*, *115*, 955-984.
- Liljeholm, M. & Cheng, P.W. (2009). The influence of virtual sample size on confidence and causal strength judgments. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, *35*, 157-172.
- Carroll, C.D., & Cheng, P.W. (2009). Preventative scope in causation. In N. A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (pp. 833-838). Austin, TX: Cognitive Science Society.
- Penn, D.C., Cheng, P.W., Holyoak, K.J., Hummel, J.E., Povinelli, D.J. (2009). There is more to thinking than propositions. *Behavioral and Brain Sciences*, *32*(2), 221-223.
- Carroll, C.D., & Cheng, P.W. (2010). The induction of hidden causes: Causal mediation and violations of independent causal influence. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 913-918). Austin, TX: Cognitive Science Society.
- Carroll, C.D., & Cheng, P.W., & Lu, H. (2010). Uncertainty in causal inference: The case of retrospective reevaluation. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 1076-1081). Austin, TX: Cognitive Science Society.
- Holyoak, K.J. & Cheng, P.W. (2011). Causal learning and inference as a rational process: The new synthesis. *Annual Review of Psychology*, *62*, 135-163.
- Carroll, C.D., & Cheng, P.W., & Lu, H. (2011). Uncertainty and dependency in causal inference. In *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 1418-1423). Austin, TX: Cognitive Science Society.
- Cheng, P.W. & Buehner, M. (2012). Causal learning. In K. J. Holyoak & R. G. Morrison (Eds.), *Oxford Handbook of Thinking and Reasoning* (pp. 210- 233). New York: Oxford University Press.
- Carroll, C. D., Cheng, P. W., & Lu, H. (2013). Inferential dependencies in causal Inference: A comparison of belief-distribution and Associative Approaches. *Journal of Experimental Psychology: General*, *142*, 845-863.
- Cheng, P.W., Liljeholm, M. & Sandhofer, C. (2013). Logical consistency and objectivity in causal learning. In *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 2034-2039). Austin, TX: Cognitive Science Society.
- Walker, J.M., Cheng, P.W. & Stigler, J.W. (2014). Equations are effects: Using causal contrasts to support algebra learning. In *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Conference Presentations and Invited Talks

- Cheng, P. W., & Pachella, R. G. Multidimensional scaling criteria for defining the integrality of psychophysical dimensions. Paper presented at the meeting of the Midwestern Psychological Association, Chicago, May 1979.
- Cheng, P. W., & Holyoak, K. J. Schema-based inferences in deductive reasoning. Paper presented at the 91st Annual Meeting of the American Psychological Association, Anaheim, August 1983.
- Cheng, P. W., & Holyoak, K. J. Pragmatic schemas for deductive reasoning. Paper presented at the 25th Annual Meeting of the Psychonomic Society, San Antonio, November 1984.
- Cheng, P. W., & Carbonell, J. G. The FERMI system: Inducing iterative macro-operator from experience. Paper presented at the Fifth National Conference of the American Association for Artificial Intelligence, Philadelphia, August 1986.
- Cheng, P.W., & Larkin, J. General strategies and domain concepts in physics problem-solving. Paper presented at the 28th Annual Meeting of the Psychonomic Society, Seattle, November 1987.
- Cheng, P.W., & Novick, L.R. Where is the bias in causal attributions? Paper presented at the International Conference on Thinking, Aberdeen, Scotland, August 1988.
- Cheng, P.W., & Novick, L.R. Causes versus mere conditions. Paper presented at the 29th Annual Meeting of the Psychonomic Society, Chicago, November 1988.
- Nisbett, R.N., & Cheng, P.W. Conditional reasoning. Paper presented at the 29th Annual Meeting of the Psychonomic Society, Chicago, November 1988.
- Lien, Y., & Cheng, P.W. Framework for psychological causal induction: Integrating the power and covariation views. Paper presented at the 11th Annual Conference of the Cognitive Science Society, Ann Arbor, August 1989.
- Cheng, P.W. A probabilistic contrast model of causal induction. Invited paper presented at the Annual Meeting of the Society of Experimental Social Psychologists, Santa Monica, October 1989.
- Novick, L.R., Fratianne, A., & Cheng, P.W. Computation of covariation over a focal set of events. Paper presented at the 30th Annual Meeting of the Psychonomic Society, Atlanta, November 1989.
- Cheng, P.W., & Nisbett, R.N. A pragmatic schema for causal deduction. Invited paper presented at the Rocky Mountain Psychological Association, Tucson, April 1990.
- Novick, L.R., Fratianne, A., & Cheng, P.W. The influence of problem structure and world knowledge on causal inference. Paper presented at the Rocky Mountain Psychological Association, Tucson, April 1990.

- Chao, S., Cheng, P.W., & Greenfield, P. The use of pragmatic reasoning schemas in 3- to 5-year-old children. Paper presented at the Western Psychological Association, Los Angeles, April 1990.
- Lien, Y. & Cheng, P.W. A bootstrapping solution to the problem of differentiating genuine and spurious causes. Paper presented at the 40th Annual Meeting of the Psychonomic Society, New Orleans, November 1990.
- Chao, S., & Cheng, P.W. The emergence of inferential rules. Paper presented at the Conference on Social Structure, Culture and Cognition, Ann Arbor, June, 1991.
- Cheng & Fratianne. Dynamic hypothesis testing: the link between implicit and explicit causal reasoning. Invited colloquium at Northwestern University, June, 1992.
- Holyoak, K.J. & Cheng, P.W. Animals as intuitive statisticians. Society for Comparative Psychology, Aix en Provence, July, 1992.
- Cheng, P.W. & Fratianne, A. The link between implicit and explicit causal reasoning. Plymouth, July, 1992.
- Holyoak, K.J. & Cheng, P.W. Pragmatic reasoning with a point of view. Plymouth, July, 1992.
- Cheng, P.W. & Fratianne, A. Dynamic hypothesis testing. International Congress. Brussels, July, 1992.
- Lien, Y. & Cheng, P.W. How do people judge whether a regularity is causal? Paper presented at the 42nd Annual Meeting of the Psychonomic Society, November 1992.
- Cheng, P.W. & Lien, W. The role of coherence in differentiating genuine from spurious causes. Invited paper presented at the Conference on Causal Understandings in Cognition and Culture. Paris, France, January, 1993.
- Chao, S., & Cheng, P.W. The emergence of inferential rules in preschool children. Paper presented at the Society for Research on Child Development, New Orleans, March, 1993.
- Cheng, P.W., & Fratianne, A. Dynamic hypothesis testing: the link between implicit and explicit causal reasoning. Invited colloquium at University of California, Santa Barbara, May, 1993.
- Cheng, P.W., & Saiki, J. Basic-level categories are created by causal theories. Paper presented at the 44th Annual Meeting of the Psychonomic Society, St. Louis, November 1994.
- Cheng, P.W., & Novick, L.R. Explaining probabilistic contrasts as estimates of causal power. In F.Van Overwalle & M.W. Morris (Chairs), Attribution processes. Symposium conducted at the 1995 Joint EAESP/SESP (European Association of Experimental Social Psychology/ Society for Experimental Social Psychologists) Meeting, Washington, D.C., September, 1995.

- Cheng, P.W., & Fratianne, A. Implicit versus explicit causal reasoning. Poster presented at the 45th Annual Meeting of the Psychonomic Society, Los Angeles, November 1995.
- Cheng, P.W. Goal of inference interacts with base-rate of effect. Symposium on Reasoning at the International Congress of Psychology, Montreal, August, 1996
- Cheng, P.W. From covariation to causation. Symposium on Thinking and Reasoning at the International Conference on Thinking, London, September, 1996
- Cheng, P.W. From covariation to causation. Paper presented at the 46th Annual Meeting of the Psychonomic Society, Chicago, November 1996.
- Buehner, M. J., & Cheng, P.W. Causal induction: The power PC theory versus the Rescorla-Wagner model. Paper presented at *the Nineteenth Annual Conference of the Cognitive Science Society*, Stanford, July 1997.
- Cheng, P.W. Implicit versus explicit causal reasoning. Invited address at the Eleventh Annual Vancouver Cognitive Science Conference, Vancouver, February, 1998.
- Cheng, P.W. Invited address, University of Chicago, Sloan School of Business, December, 1998.
- Cheng, P.W. Invited address, California Institute of Technology, Department of Philosophy, March, 1999.
- Cheng, P.W. Invited paper, Symposium on associative learning. EPA. Rhode Island, April, 1999.
- Novick, L. R., & Cheng, P.W. Assessing conjunctive causal influence. Paper presented at the 49th Annual Meeting of the Psychonomic Society, Los Angeles, November 1999.
- Buehner, M., & Cheng, P.W. A test of the assumption of causal power. Paper presented at the International Conference on Thinking, London, September, 2000.
- Cheng, P.W. Invited paper, Symposium on reasoning, Japanese Society of Educational Psychologists. Tokyo, Japan, September, 2000.
- Cheng, P.W. Invited keynote address, Spanish Society of Experimental Psychologists. Granada, Spain, September, 2000.
- Cheng, P.W. Invited paper, Symposium on everyday causal reasoning. Annual Meeting of the Psychonomics Society. New Orleans, November, 2000
- Cheng, P.W. Invited address, Colloquium series at UC Berkeley's Institute for Cognitive Studies. December, 2000
- Cheng, P.W. Invited address, Colloquium series at the Department of Psychology, University of Washington. February, 2001

- José C. Perales, Patricia W. Cheng, and Andrés Catena. Intuitive Analogues of Control Procedures in Causal Learning Tasks. Symposium on Associative Learning Gregynog, Wales. April 2001.
- Cheng, P.W. Assessing interactive causal influence. Department of Statistics, UCLA. May, 2001.
- Cheng, P.W. Assessing interactive causal influence. Department of Philosophy, UC Irvine. May, 2001.
- Guo, F. Y. & P. W. Cheng, "Distinguishing Between Implicit and Explicit Causal Reasoning", Paper will be presented at conference in Behavioral Decision Research in Management, Chicago, May 2002.
- Guo, F. Y. & P. W. Cheng, "Distinguishing Between Implicit and Explicit Causal Reasoning", Paper will be presented at annual meeting of Academy of Management, Denver, August 2002.
- Cheng, P.W., & Novick, L. R. Assessing Interactive Causal Influence: A Psychological Theory & its Implications. Causal Inference Conference, Snowbird, Utah. August, 2002.
- Cheng, P.W. Functional Basic-Level Categories and Causal Theories. Florida Artificial Intelligence Conference, Pensacola, Florida, May, 2002
- Cheng, P.W. Testing causal hypotheses regarding categorical data resulting from discrete variables. Biostatistics Department, UCLA, February, 2003.
- Cheng, P.W. A psychological model of the assessment of interactive causal influence. Princeton Psychology Colloquium, February, 2003.
- Cheng, P.W. Causal discovery: Assessing simple and complex causes.. Developmental Brownbag, University of California, Riverside, April, 2003.
- Cheng, P.W. Causal power and the assessment of interactive causal influence. Inland Northwest Philosophy Conference, University of Idaho and Washington State University, Pullman, Washington. May, 2003.
- Cheng, P.W. & James, N. The formation of functional categories and causal learning: A unitary process. Workshop on causation and categorization. Center for Advanced Study in the Behavioral Sciences, Stanford. February, 2004.
- Ford, E. C. & Cheng, P.W. Sensitivity to confounding in causal inference: From childhood to adulthood. The 26th Annual Conference of the Cognitive Science Society. Chicago, Illinois. July, 2004.
- Cheng, P.W. The Deductive Nature of Causal Induction. The 28th International Congress of Psychology. Beijing, August, 2004.

- Cheng, P.W. A Probabilistic Representation of Causation: Some Implications. Conference on Probabilistic models of cognition: the Mathematics of mind at Institute of Pure and Applied Mathematics, UCLA. January, 2005.
- Liljeholm, M. & Cheng, P.W. Actual and virtual sample size: The influence of base rates on confidence and causal strength judgments. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Toronto, November 2005.
- Cheng, P.W. Explaining Covariation by Causation: Implications of Causal Assumptions for Coherence and Compositionality, Department of Psychology, Cardiff University, Wales. March, 2006.
- Cheng, P.W. Explaining Covariation by Causation: Implications of Causal Assumptions for Coherence and Compositionality, Department of Psychology, University College London, London. March, 2006.
- Cheng, P.W. Explaining Covariation by Causation: Implications of Causal Assumptions for Coherence and Compositionality, Department of Psychology, University of Illinois, Champagne-Urbana. March, 2006.
- Cheng, P.W. A Single-Effect Model of Causal Learning. Symposium on the Origin of Causal Knowledge, Ardennes, Belgium. May, 2007.
- Cheng P.W. Causal reasoning in humans and rats. Summer Program on Probabilistic Models of Cognition. Institute of Pure and Applied Mathematics, UCLA. July, 2007.
- Cheng, P.W. Causal Assumptions for Coherence and Compositionality. Symposium on Causal Strength. Annual Meeting of the Society of Mathematical Psychologists, Washington D.C. July, 2008.
- Cheng, P.W. A causal-power explanation of diagnostic reasoning in rats. Japanese Psychological Society. Symposium. Sapporo, September, 2008.
- Cheng, P.W. Causal Assumptions for Coherence and Compositionality. Japanese Psychological Association. Invited keynote address. Sapporo, September, 2008.
- Cheng, P.W. Explaining why we don't think barometric readings cause storms, and beyond. Invited lecture, Department of Psychology, Kwansai Gakuin University, Osaka, September, 2008.
- Cheng, P.W. From Hume and Kant to cognitive science. Invited lecture, graduate course on philosophy of science, UCLA School of Nursing, November, 2008.
- Cheng, P.W. Independent causal influence: Implications for causal reasoning, comparative psychology, and statistics. Invited lecture, Forum on Evolution, Philosophy, and Statistics, UC Irvine, March 2009.
- Carroll, C.D., & Cheng, P.W. The induction of hidden causes: Causal mediation and violations of independent causal influence. The 32nd Annual Conference of the Cognitive Science Society. Portland, Oregon. July, 2010.

- Cheng, P.W., Liljeholm, M. & Sandhofer, C. Are preschoolers Humean or Kantian causal reasoners? Annual Interdisciplinary Conference, Jackson Hole, Wyoming. January 2011.
- Carroll, C.D., & Cheng, P.W., & Lu, H. Uncertainty and dependency in causal inference. *The 33rd Annual Conference of the Cognitive Science Society*, Boston, Massachusetts. July, 2011.
- Walker, J. & Cheng, P.W. Applying causal learning to mathematics education. Annual Summer Interdisciplinary Conference, Boi Valley, Pyrenees, Spain. August, 2011.
- Saiki, J., James, N. & Cheng, P.W. A causal explanation of basic-level categories. Annual Interdisciplinary Conference, Jackson Hole, Wyoming. January 2012.
- Cheng, P.W., Liljeholm, M. & Sandhofer, C. How preschoolers' causal discovery and generalization can inform scientific causal inference. Invited talk in statistics conference. Spring Research Conference, UCLA, June 2013.
- Cheng, P.W., Liljeholm, M. & Sandhofer, C. How preschoolers' causal discovery and generalization can inform scientific inference. Annual Summer Interdisciplinary Conference, Cortina D'Ampezzo, Italy. July 2013.
- Cheng, P.W., Liljeholm, M. & Sandhofer, C. Causal invariance in intuitive and scientific causal inference. Invited talk in workshop sponsored by the Max Planck Institute for Intelligent Systems, Germany. Causality: Perspectives from different disciplines, Vals, Switzerland. August, 2013.
- Cheng, P.W. Nature's Wisdom: Why Causal Discovery in Preschoolers can Inform Scientific Causal Inference. Invited colloquium, Institute for Mathematical Behavioral Sciences, University of California, Irvine, April, 2014.
- McGillivray, S. & Cheng, P.W. Analytic knowledge of the concept of causal invariance. Annual Summer Interdisciplinary Conference, Moab, Utah. June 2014.
- McGillivray, S. & Cheng, P.W. Analytic versus empirical knowledge of the concept of causal invariance. Paper to be presented at the 64th Annual Meeting of the Psychonomic Society, Long Beach, November 2014.