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Vita

Patricia Wenjie Cheng

**Personal Information**

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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 &amp; 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 &amp; 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). New York, 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). Mahwah, NJ: Erlbaum.
- 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*. 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 28<sup>th</sup> 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 address. Sapporo, September, 2008.
- Cheng, P.W. Explaining why we don't think barometric readings cause storms, and beyond. Invited lecture, Department of Psychology, Kwansei 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.