

Curriculum Vitae

Marc David Lewis

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Status: Professor

Main Appointment: Social Development Research Group
Behavioural Science Institute
Radboud University Nijmegen

Adjunct or Emeritus: Department of Human Development and Applied Psychology,
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Degrees:

Ph.D. University of Toronto (OISE), Applied Psychology, 1989

M.A. University of Toronto (OISE), Applied Psychology, 1986

B.A. University of California—Berkeley, Music, 1975

Memberships:

Association for Psychological Science
Jean Piaget Society
International Society for Research on Emotions
International Society for the Study of Behavioral Development
Society for Research in Child Development

Research Funding:

- 2009-2011 Ontario Mental Health Foundation (OMHF). *Brain changes underlying successful treatment of anxiety disorders in childhood* (PI). \$148,000 over two years.
- 2008-2013 Natural Sciences and Engineering Research Council of Canada (NSERC). *Neural mechanisms of emotion regulation in early personality development* (PI). \$75,000 over five years.
- 2006-2009 Canadian Institutes for Health Research (CIHR). *Successful interventions with antisocial youth: Cognitive-affective and neural mechanisms – renewal* (co-PI with Isabela Granic & Philip D. Zelazo). \$480,000 over three years.
- 2006-2009 Canadian Foundation for Innovation (CFI), Leader's Opportunity Fund. *Developing social brains* (project leader). \$599,368 over three years.
- 2003-2007 Natural Sciences and Engineering Research Council of Canada (NSERC). *The neural underpinnings of developing socioemotional habits* (PI). \$60,000 over five years.
- 2003-2006 Canadian Institutes for Health Research (CIHR). *Successful interventions with antisocial youth: Cognitive-affective and neural mechanisms* (co-PI with Isabela Granic & Philip D. Zelazo). \$212,000 over three years.
- 2002-2005 National Institute for Mental Health (NIMH). *Interpersonal and intrapersonal processes underlying the etiology and treatment of antisocial adolescents: New methods from the behavioral and brain sciences* (network member, PI: Debra Pepler). \$600,000 CDN over three years.
- 2001-2004 Social Sciences and Humanities Research Council of Canada (SSHRC). *Emotional effects on cognitive flexibility at the adolescent transition* (PI). \$105,000 over three years.
- 2001-2002 Natural Sciences and Engineering Research Council of Canada (NSERC). *Stabilization of brain and behaviour in emotional development* (PI). \$10,000 over one year.
- 1997-2001 Natural Sciences and Engineering Research Council of Canada (NSERC). *New methods for dynamic systems analysis of human development* (PI). \$44,000 over four years.
- 1993-96 Social Sciences and Humanities Research Council of Canada (SSHRC). *The socioemotional origins of self-organizing cognitive habits* (PI). \$90,000 over three years.

- 1993-95 Hospital for Sick Children Foundation. *Emerging cognitive habits in infancy* (PI). \$46,006 over two years.
- 1991-93 Research & Development Award, Ontario Ministry of Education: *The effects of age-specific emotion on the organization of cognitive development* (PI). \$99,253 over two years.

Publications:

Chapters in Books...

- Hum, K. M., & **Lewis, M. D.** (in press). Neural mechanisms of children's behavior problems: Implications for development and treatment...
- Woltering, S. & **Lewis, M. D.** (2011, in press). Conceptual development and emotion: A neuropsychological perspective. In P. K. Smith & C. H. Hart (Eds.), *The Wiley-Blackwell Handbook of Childhood Social Development (2nd edition)*. London: Wiley-Blackwell.
- Lewis, M. D.**, Todd, R. M., & Xu, X. (2010). The development of emotion regulation: A neuropsychological perspective. In M. E. Lamb & A. M. Freund (Eds.), *Handbook of life-span development* (Vol. 2). New York: Wiley.
- Lewis, M. D.**, & Granic, I. (2010). Phases of social-emotional development from birth to school age. In M. Ferrari & L. Vulatec (Eds.), *The developmental relations between mind, brain, and education*. New York: Springer.
- Lewis, M. D.** (2010). Desire, dopamine, and conceptual development. In S. D. Calkins & M. A. Bell (Eds.), *Child development at the intersection of emotion and cognition* (pp. 175-199). Washington: American Psychological Association.
- Kesek, A., Zelazo, P. D., & **Lewis M. D.** (2009). The development of executive cognitive function and emotion regulation in adolescence. In N. B. Allen & L. B. Sheeber (Eds.), *Adolescent emotional development and the emergence of depressive disorders* (pp. 135-155). New York: Cambridge University Press.
- Todd, R. M., & **Lewis, M. D.** (2008). Self-regulation in the developing brain. In J. Reed & J. Warner-Rogers (Eds.), *Child neuropsychology: Concepts, theory and practice* (pp. 285-315). London: Wiley-Blackwell.
- Lewis, M. D.** (2007). Emotional habits in brain and behavior: A window on personality development. In A. Fogel & S. Shanker (Eds.), *Human development in the twenty-first century: Visionary policy ideas from systems scientists*. New York: Cambridge University Press.
- Lewis, M. D.** (2005). The emergence of mind in the emotional brain. In A. Demetriou & A. Raftopoulos (Eds.), *Cognitive developmental change: Theories, models and measurement* (pp. 217-240). Cambridge: Cambridge University Press.
- Lewis, M. D.** & Todd, R. (2004). Toward a neuropsychological model of internal dialogue: Implications for theory and clinical practice. In H. J. M. Hermans & G. Dimaggio (Eds.), *The dialogical self in psychotherapy* (pp. 43-59). New York: Brunner-Routledge.

- Lewis, M. D.** (2002). Interacting time scales in personality (and cognitive) development: Intentions, emotions, and emergent forms. In N. Granott & J. Parziale (Eds.), *Microdevelopment: Transition processes in development and learning* (pp. 183-212). Cambridge: Cambridge University Press.
- Lewis, M. D., & Ferrari, M.** (2001). Cognitive-emotional self-organization in personality development and personal identity. In H. A. Bosma & E. S. Kunnen (Eds.), *Identity and emotions: A self-organizational perspective* (pp. 177-198). Cambridge: Cambridge University Press.
- Lewis, M. D.** (2001). Personal pathways in the development of appraisal: A complex systems/stage theory perspective. In K. R. Scherer, A. Schorr, & T. Johnstone (Eds.), *Appraisal processes in emotion* (pp. 205-220). Oxford: Oxford University Press.
- Lewis, M. D.** (2000). Emotional self-organization at three time scales. In M. D. Lewis & I. Granic (Eds.), *Emotion, development, and self-organization: Dynamic systems approaches to emotional development* (pp. 37-69). New York: Cambridge University Press.
- Lewis, M. D., & Granic, I.** (2000). A new approach to the study of emotional development. In M. D. Lewis & I. Granic (Eds.), *Emotion, development, and self-organization: Dynamic systems approaches to emotional development* (pp. 1-12). New York: Cambridge University Press.
- Lewis, M. D.** (1999). A dynamic systems approach to measuring behavioural flexibility in early personality development. In M. Fingerle & A. Freytag (Eds.), *The strengths of children: Education between risk and resilience* (pp. 328-342). Berlin: Ernst-Reinhardt-Verlag.
- Lewis, M. D., & Granic, I.** (1999). Self-organization of cognition-emotion interactions. In T. Dalgleish & M. Power (Eds.), *Handbook of cognition and emotion* (pp. 683-701). Chichester: Wiley.
- Lewis, M. D., & Douglas, L.** (1998). A dynamic systems approach to cognition-emotion interactions in development. In M. F. Mascolo & S. Griffin (Eds.), *What develops in emotional development?* (pp. 159-188). New York: Plenum.
- Lewis, M. D., & Junyk, N.** (1997). The self-organization of psychological defenses. In F. Masterpasqua & P. Perna (Eds.), *The psychological meaning of chaos: Translating theory into practice* (pp. 41-73). Washington: American Psychological Association.
- Lewis, M. D.** (1997). Personality self-organization: Cascading constraints on cognition-emotion interaction. In A. Fogel, M. Lyra, & J. Valsiner (Eds.), *Dynamics and indeterminism in developmental and social processes* (pp. 193-216). Mahwah, NJ: Erlbaum.

Books...

- Lewis, M. D.** (2011, in press). *Memoirs of an addicted brain*. Toronto: Doubleday.
- Lewis, M. D., & Granic, I.** (2009). *Bedtiming: The when-to guide to helping your child to sleep*. Toronto: HarperCollins.
- Lewis, M. D., & Granic, I.** (Eds.) (2000). *Emotion, development, and self-organization: Dynamic systems approaches to emotional development*. New York: Cambridge University Press.

Articles in Refereed Journals...

- Woltering, S., Granic, I., Lamm, C., & **Lewis, M. D.** (in press). Neural changes associated with treatment outcome in children with externalizing problems. *Biological Psychiatry*.
- Lewis, M. D.** (in press). The slippery slope of downward causation. *Human Development*.
- Lamm, C., Granic, I., Zelazo, P. D., & **Lewis, M. D.** (in press). Magnitude and chronometry of neural mechanisms of emotion regulation in subtypes of aggressive children. *Brain & Cognition*.
- Prencipe, A., Kesek, A., Cohen, J., Lamm, C., **Lewis, M. D.**, & Zelazo, P. D. (in press). Development of hot and cool executive function during the transition to adolescence. *Journal of Experimental Child Psychology*.
- Nenadovic, V., Garcia Dominguez, L., **Lewis, M. D.**, Snea, O. C, Gorin, A., Perez Velazquez, J. L., (in press). Transient coordinated activity within the developing brain's default network. *Cognitive Neurodynamics*.
- Lewis, M. D.** (in press). Dynamic systems approaches: Cool enough? Hot enough? *Child Development Perspectives*.
- Lewis, M. D.**, & Liu, Z. (2011). Three time scales of neural self-organization underlying basic and nonbasic emotions. *Emotion Review*, 3, 416–423.
- Lewis, M. D.** (2011). Dopamine and the neural now: Essay and review of Addiction, a disorder of choice. *Perspectives on Psychological Science*, 6, 150-155.
- Todd, R. M., Evans, J. W., Morris, D., **Lewis, M. D.**, & Taylor, M. J. (2011). The changing face of emotion: Age related patterns of amygdala activation to salient faces. *Social Cognitive and Affective Neuroscience*, 6, 12-23.
- Chapman, H., Woltering, S., Lamm, C. & **Lewis, M. D.** (2010). Hearts and minds: Coordination of neurocognitive and cardiovascular regulation in children and adolescents. *Biological Psychology*, 84, 296-303.
- Lamm, C., & **Lewis, M. D.** (2010). Developmental change in the neurophysiological correlates of self-regulation in high- and low-emotion conditions. *Developmental Neuropsychology*, 35, 156-176.
- Woltering, S., & **Lewis, M. D.** (2009). Developmental pathways of emotion regulation in childhood: A neuropsychological perspective. *Mind, Brain, and Education*, 3, 160-169.
- Thompson, R. A., **Lewis, M. D.**, & Calkins, S. D. (2008). Reassessing emotion regulation. *Child Development Perspectives*, 2, 124-131.
- Lewis, M. D.**, Granic, I., Lamm, C., Zelazo, P. D., Stieben, J., Todd, R. M., Moadab, I., & Pepler, D. (2008). Changes in the neural bases of emotion regulation associated with clinical improvement in children with behavior problems. *Development and Psychopathology*, 20, 913-939.
- Todd, R. M., **Lewis, M. D.**, Meusel, L. A., & Zelazo, P. D. (2008). The time course of social-emotional processing in early childhood: ERP responses to facial affect and personal familiarity in a Go-Nogo task. *Neuropsychologia*, 46, 595-613.
- Lewis, M. D.**, & Todd, R. M. (2007). The self-regulating brain: Cortical-subcortical feedback and the development of intelligent action. *Cognitive Development*, 22, 406-430.
- Lewis, M. D.**, & Cook, M. L. (2007). Changing habits of emotion regulation at transition points in infancy: A dynamic systems analysis. *Journal of Developmental Processes*, 3, 67-89.
- Stieben, J., **Lewis, M. D.**, Granic, I., Zelazo, P. D., & Pepler, D. (2007). Neurophysiological correlates of emotion regulation for subtypes of antisocial children. *Development and*

- Psychopathology*, 19, 455-480.
- Lewis, M. D.**, Todd, R. M., & Honsberger, M. (2007). Event-related potential measures of emotion regulation in early childhood. *NeuroReport*, 18, 61-65.
- Lewis, M. D.**, Granic, I., & Lamm, C. (2006). Behavioral differences in aggressive children linked with neural mechanisms of emotion regulation. *Annals of the New York Academy of Sciences*, 1094, 164-177.
- Hollenstein, T., & **Lewis, M. D.** (2006). A state space analysis of emotion and flexibility in parent-child interactions. *Emotion*, 6, 656-662.
- Lamm, C., Zelazo, P. D., & **Lewis, M. D.** (2006). Neural correlates of cognitive control in childhood and adolescence: Disentangling the contributions of age and executive function. *Neuropsychologia*, 44, 2139-2148.
- Lewis, M. D.**, Lamm, C., Segalowitz, S. J., Stieben, S., & Zelazo, P. D. (2006). Neurophysiological correlates of emotion regulation in children and adolescents. *Journal of Cognitive Neuroscience*, 18, 430-443.
- Howe, M. L., & **Lewis, M. D.** (2005). The importance of dynamic systems approaches for understanding development. *Developmental Review*, 25, 1-5.
- Lewis, M. D.** (2005). Self-organizing individual differences in brain development. *Developmental Review*, 25, 252-277.
- Lewis, M. D.** & Todd, R. M. (2005). Getting emotional: A neural perspective on emotion, intention, and consciousness. *Journal of Consciousness Studies*, 12, 210-235.
- Lewis, M. D.** (2005). An emerging dialogue among social scientists and neuroscientists on the causal bases of emotion. (response to commentators) *Behavioral and Brain Sciences*, 28, 223-234.
- Lewis, M. D.** (2005). Bridging emotion theory and neurobiology through dynamic systems modeling (target article). *Behavioral and Brain Sciences*, 28, 169-194.
- Lewis, M. D.** (2004). Trouble ahead: Predicting antisocial trajectories with dynamic systems concepts and methods. *Journal of Abnormal Child Psychology*, 32, 665-671.
- Lewis, M. D.**, & Stieben, J. (2004). Emotion regulation in the brain: Conceptual issues and directions for developmental research. *Child Development*, 75, 371-376.
- Evans, D. W., **Lewis, M. D.**, & Iobst, E. (2004). The role of the orbitofrontal cortex in normally developing compulsive behaviors and obsessive-compulsive disorder. *Brain and Cognition*, 55, 220-234.
- Lewis, M. D.**, Zimmerman, S., Hollenstein, T., & Lamey, A. V. (2004). Reorganization of coping behavior at 1 1/2 years: Dynamic systems and normative change. *Developmental Science*, 7, 56-73.
- Lewis, M. D.** (2002). The dialogical brain: Contributions of emotional neurobiology to understanding the dialogical self. *Theory and Psychology*, 12, 175-190.
- Lewis, M. D.** (2000). The promise of dynamic systems approaches for an integrated account of human development. *Child Development*, 71, 36-43. (Special issue on New Directions for Child Development in the Twenty-First Century)
- Lewis, M. D.**, Lamey, A. V., & Douglas, L. (1999). A new dynamic systems method for the analysis of early socioemotional development. *Developmental Science*, 2, 458-476.
- Lewis, M. D.**, & Granic, I. (1999). Who put the self in self-organization? A clarification of terms and concepts for developmental psychopathology. *Development and Psychopathology*, 11, 365-374.

- Lewis, M. D.**, Koroshegyi, C., Douglas, L., & Kampe, K. (1997). Age-specific associations between emotional responses to separation and cognitive performance in infancy. *Developmental Psychology*, 33, 32-42.
- Lewis, M. D.** (1996). Self-organising cognitive appraisals. *Cognition and Emotion*, 10, 1-25.
- Lewis, M. D.** (1995). Cognition-emotion feedback and the self-organization of developmental paths. *Human Development*, 38, 71-102.
- Lewis, M. D.** (1994). Reconciling stage and specificity in neo-Piagetian theory: Self-organizing conceptual structures. *Human Development*, 37, 143-169.
- Lewis, M. D.** (1993). Early socioemotional predictors of cognitive competency at four years. *Developmental Psychology*, 29, 1036-1045.
- Lewis, M. D.** (1993). A neo-Piagetian interpretation of Melanie Klein's theory of infancy. *Psychoanalysis and Contemporary Thought*, 16, 519-559.
- Lewis, M. D.** (1993). Emotion-cognition interactions in early infant development. *Cognition and Emotion*, 7, 145-170.
- Lewis, M. D.**, & Ash, A. J. (1992). Evidence for a neo-Piagetian stage transition in early cognitive development. *International Journal of Behavioral Development*, 15, 337-358.
- Lewis, M. D.** (1989). Early infant-mother interaction as a predictor of problem solving in toddlers. *International Journal of Early Childhood*, 21, 13-22.
- Case, R., Hayward, S., **Lewis, M. D.**, & Hurst, P. (1988). Toward a neo-Piagetian theory of cognitive and emotional development. *Developmental Review*, 8, 1-51.
- Lewis, M. D.** (1988). Biography of the first year: A case study integrating psychoanalytic, cognitive-developmental and mother-infant systems perspectives. *Early Child Development and Care*, 39, 1-20.

Commentaries...

- Lewis, M. D. (2001). Self-organizing brains don't develop gradually. *Behavioral and Brain Sciences*, 24, 47.
- Ramsay, J. T., & Lewis, M. D. (2000). Causal status of emotions in consciousness. *Behavioral and Brain Sciences*, 23, 215-216.

Papers in Refereed Conferences (selected)...

- Lewis, M. D. (2009, August). *A middle road in the basic emotions debate: Neural considerations*. Paper presented at the meeting of the International Society for Research on Emotions, Leuven, Belgium.
- Lewis, M. D. (2009, April). Dynamic systems approaches: Cool enough? Hot enough? Paper presented at the meeting of the Society for Research in Child Development, Denver, CO.
- Lewis, M. D., Granic, I., Lamm, C., & Zelazo, P. D. (2009, April). *Changes in cortical mechanisms of emotion regulation associated with clinical improvement in children's behavior*. Paper presented at the meeting of the Society for Research in Child Development, Denver, CO.
- Lewis, M. D. (2008, August). *The basic emotions debate: Let's have our cake and eat it too*. Paper presented at the meeting of the American Psychological Association, Boston.
- Lewis, M. D. (2007, June). *Cortical and subcortical regulation of emotional development*. Paper presented at the meeting of the Jean Piaget Society, Amsterdam, NL.

- Lewis, M. D. (2007, June). *A brain's-eye view of emotion regulation: Implications for developmental psychopathology*. Paper presented at the meeting of the International Society for Research in Child and Adolescent Psychopathology, London, UK.
- Lewis, M. D. (2007, June). *Self-organizing processes in individual development: Patterns of cortical specialization underlying children's aggression and anxiety problems*. Paper presented at the meeting of the International Society for Research in Child and Adolescent Psychopathology, London, UK.
- Lewis, M. D., & Todd, R. M. (2007, March). *Neurocognitive mechanisms of emotion regulation in early childhood: Theory, methods, data*. Paper presented at the meeting of the Society for Research in Child Development, Boston, MA.
- Lewis, M. D., Stieben, J., Lamm, C., & Zelazo, P. D. (2005, June). *Neurophysiological correlates of treatment success for antisocial children*. Poster presented at the meeting of the International Society for Research on Child and Adolescent Psychopathology, New York, NY.
- Lewis, M. D. (2005, April). *The self-regulating brain: Measuring the interpretive wake of children's emotions with ERP methods*. Paper presented at an invited symposium at the meeting of the Society for Research in Child Development, Atlanta, USA.
- Lewis, M. D., Lamm, C., Stieben, J., & Zelazo, P. D. (2004, October). *Age effects on associations between child temperament and cortical indices of emotion regulation*. Paper presented at the meeting of the Society for Psychophysiological Research, Santa Fe, USA.
- Lewis, M. D., Stieben, J., Lamm, C., & Zelazo, P. D. (2004, April). *Measuring cortical mechanisms of emotion regulation in children with event-related potentials*. Poster presented at the meeting of the Cognitive Neuroscience Society, San Francisco, CA..
- Lewis, M. D., Stieben, J., Lamm, C., & Zelazo, P. D. (2003, September). *Cognitive ERPs tapping emotion regulation in antisocial youth*. Poster presented at the meeting of the New York Academy of Sciences, on Adolescent Brain Development. New York, NY.
- Lewis, M. D. & Stieben, J. (2003, June). *Frontal mechanisms of emotion regulation in antisocial children: A dense-array ERP study*. Paper presented at the meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Hamilton, Ontario.
- Lewis, M. D., Stieben, J., & Honsberger, M. (2003, June). *A new ERP procedure for studying cortical mechanisms of emotion regulation*. Poster presented at the meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Hamilton, Ontario.
- Lewis, M. D. (2003, April). *Combining dynamic systems and neo-Piagetian approaches to socioemotional transitions in infancy*. Paper presented at the meeting of the Society for Research in Child Development, Tampa, FL.
- Lewis, M. D. (2003, April). *Lost in Space or The Next Generation? Dynamic systems approaches to emotional development*. Paper presented at the meeting of the Society for Research in Child Development, Tampa, FL.
- Lewis, M. D. (2002, August). *New statistical methods for dynamic systems analysis of developmental data*. Paper presented at the meeting of the International Society for the Study of Behavioral Development, Ottawa.
- Lewis, M. D. (2002, July). *Emergent appraisals: Psychological and neural modeling*. Paper presented at the meeting of the International Society for Research on Emotions, Cuenca, Spain.
- Lewis, M. D. (2002, June). *Cognition grows between sensorimotor and motivational "surfaces" of the cortex*. Paper presented at the meeting of the Jean Piaget Society, Philadelphia, PA.

- Lewis, M. D. (2001, June). *The emergence of mind in the emotional brain*. Paper presented at the meeting of the Jean Piaget Society, Berkeley, CA.
- Lewis, M. D. (2001, April). *Stages and transitions in emotional development: The contribution of Robbie Case*. Paper presented at the meeting of the Society for Research in Child Development, Indianapolis, IN.
- Lewis, M. D. (2000, June). *The contribution of new dialogical forms to self development in middle childhood*. Paper presented at the Dialogical Self conference, Nijmegen, NL.
- Lewis, M. D. (2000, June). *Internal monologues and the anticipation of the other: Developing self-constraint in a unitary brain*. Paper presented at the Dialogical Self conference, Nijmegen, NL.
- Lewis, M. D. (2000, June). *Emotional influences on neural self-organization in real time and development*. Paper presented at the meeting of the Jean Piaget Society, Montreal.
- Lewis, M. D. (2000, May). *Dynamic systems analysis of a socioemotional transition in the second year of life*. Paper presented at the Development 2000 conference, Waterloo, Ontario.
- Lewis, M. D. (1999, June). *A dynamic systems approach to studying resiliency in early development*. Poster presented at the meeting of the International Society for Research in Child and Adolescent Psychopathology, Barcelona.
- Lewis, M. D., & Lamey, A. V. (1999, April). *State space grids: A new method for dynamic systems analysis of socioemotional development in infancy*. Poster presented at the meeting of the Society for Research in Child Development, Albuquerque, NM.
- Lewis, M. D. (1998, October). *Cognition-emotion coupling in the self-organization of personality and behavior*. Paper presented at the meeting of the American Association for Artificial Intelligence, Orlando, FL.
- Lewis, M. D. (1997, September). *Transitions in developmental trajectories: A dynamic systems analysis*. Paper presented at the meeting of the European Society for Developmental Psychology, Rennes, France.
- Lewis, M. D. (1997, June). *The self-organization of communicative themes in interpersonal development*. Paper presented at the meeting of the Jean Piaget Society, Santa Monica, CA.
- Lewis, M. D., & Douglas, L. (1997, April). *A dynamic systems methodology for assessing individual differences in early emotional development*. Poster presented at the meeting of the Society for Research in Child Development, Washington, DC.
- Lewis, M. D. (1996, September). *Individual constraints on cognitive self-organization*. Paper presented at the "Growing Mind" Centennial of Jean Piaget's Birth, Geneva.
- Lewis, M. D. (1996, August). *Cognition-emotion coupling in personality self-organization*. Paper presented and symposium chaired at the meeting of the International Society for Research on Emotions, Toronto.
- Lewis, M. D. (1996, June). *The development of the child's theory of representation through the social coupling of cognitive attractors*. Paper presented at the meeting of the Jean Piaget Society, Philadelphia, PA.
- Lewis, M. D. (1995, June). *A dynamic systems interpretation of universal developmental stages*. Paper presented at the meeting of the Jean Piaget Society, Berkeley, CA.
- Lewis, M. D. (1995, March). *Self-organization of individual differences in development*. Paper presented and symposium chaired at the meeting of the Society for Research in Child Development, Indianapolis, IN.

Invited Talks and Lectures (selected)...

- Cortical mechanisms of emotion regulation in children with behavior problems: Changes due to treatment.* Presentation to the Psychology Department, Virginia Tech, Roanoke, VA, November, 2009.
- Different frontal activation latencies for different subtypes of internalizing children,* with Isabela Granic. Presentation at Dynamical Neuroscience XVII: Dynamical Diseases Satellite Symposium, NIMH, Chicago, October, 2009.
- Neural correlates of treatment success in children referred for behaviour problems.* Presentation to a workshop sponsored by NIMH (Using Electrophysiologic Methods to Understand the Neural Basis and Treatment Effects of Mental Disorders in Children and Adolescents), Bethesda, MD, September, 2009.
- Neural self-organization and processes of emotion.* Invited talk at the Tenth International Conference on Simulation of Adaptive Behavior, Osaka, Japan, July 12, 2008.
- Brain changes in emotion regulation, personality development, child psychopathology, and clinical intervention.* Presentation at the Mind & Life Summer Research Institute, Garrison, NY, June 10, 2008.
- Brain mechanisms of emotion regulation in the development and treatment of child psychopathology.* Keynote address at Made in Ontario: A showcase of leading practices in child and youth mental health, Mississauga, Canada, May 9, 2008.
- Changes in cortical activation corresponding with successful treatment for aggressive children.* Presentation at the University of Delaware, Newark, DE, February 14, 2008.
- Developmental and clinical change in cortical patterns of emotion regulation.* Presentation at the University of Maryland, College Park, MD, February 13, 2008.
- Cortical patterns of emotion regulation that change when treatment works.* Presentation at the Child Development Institute, Toronto, November, 8, 2007.
- Treatment success with aggressive children: New insights from neurophysiological research.* Presentation at the Child Development Institute, Toronto, September 12, 2006.
- Neurocognitive mechanisms of emotion regulation allow behavioral flexibility in aggressive children.* Presentation at the Second International Forum on Children's Emotional Development and Competence, Nanjing, China, June 28, 2006.
- Neurocognitive mechanisms of emotion regulation and behavioral flexibility in aggressive children.* Presentation at a Meeting sponsored by the National Institute of Mental Health (Developmental and Translational Models of Emotion Regulation and Dysregulation: Links to Childhood Affective Disorders), Bethesda, MD, April 3, 2006.
- Neurocognitive mechanisms of emotion regulation and behavioral flexibility in aggressive children.* Invited plenary talk, Meeting of the New York Academy of Sciences, Arlington, VA, February 27, 2006.
- Dynamic systems and neurodevelopmental methods for studying aggressive trajectories.* Presentation to the Oregon Social Learning Center, Eugene, OR, November 17, 2005.
- Cortical development and emotion regulation.* Presentation at the Psychology Department, Queen's University, November 3, 2005.
- Developing neural mechanisms of emotion regulation in normal and aggressive children.* Presentation at Pennsylvania State University, October 26, 2005.
- Cortical mechanisms of emotion regulation in normal and antisocial children: new ideas and new findings.* Presentation at the University of Cyprus, September 14, 2005.

Self-organizing states and traits in the emotional brain. Invited keynote address at the meeting of the Society for Chaos Theory in Psychology and Life Sciences, Denver, USA, August 4, 2005.

Cortical mechanisms of emotion regulation in normal and antisocial children: New ideas and new findings. Presentation to the Psychology Department, York University, November 18, 2004.

Cortical mechanisms of emotion regulation in normal and antisocial children: New ideas and new research directions. Presentation at the Mind, Brain, and Behavior lecture series, Harvard Graduate School of Education, Harvard University, October 16, 2003.

Dynamic systems analysis of transitions in socioemotional development. Invited keynote address for the annual meeting of the Canadian Psychological Association, June, 2003.

The dialogical brain. Presentation at the second biennial Conference on the Dialogical Self, Ghent, Belgium, October 18, 2002.

Some conceptual directions for linking learning theory and dynamic systems approaches to social behavior. Invited workshop held by the Oregon Social Learning Center, University of Oregon, and University of Kansas researchers, Port Townsend, WA, May 25, 2002.

State space grids: A tool for assessing change in mother-infant interaction. Presentation to the Early Childhood Center, Cedars-Sinai Medical Center, Los Angeles, January 12, 2002.

Applying dynamic systems methods to research in socioemotional development. Development, Emotion, and Psychopathology colloquium series, University of Oregon, Eugene, April, 2001.

Emergent order in emotional episodes: Brain, behavior, and development. Hill Center colloquium series, University of Oregon, Eugene. November 1, 2000.

Emotional processes at nested time scales of development. Presentation at the Mind, Brain, and Behavior lecture series, Harvard Graduate School of Education, Harvard University, February 24, 2000.