

# CURRICULUM VITAE (ABRIDGED)

John Colombo

## PERSONAL INFORMATION AND CONTACTS

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## EDUCATION AND PROFESSIONAL TRAINING

1977	B.A., Psychology and Sociology. State University of New York, Buffalo/Amherst, NY
1979	M.A., Psychology (Developmental). State University of New York, Buffalo/Amherst, NY
1981	Ph.D., Psychology (Developmental). State University of New York, Buffalo/Amherst, NY
1982	PHS (NIH) Postdoctoral Trainee, University of Kansas, Lawrence, KS

## ACADEMIC AND RESEARCH INTERESTS

Developmental cognitive neuroscience	Nutrition and cognitive development
Attention and its development	Developmental origins of health and disease
Autonomic function and behavior	Developmental systems theory
Developmental research design and quantitative methods	Individual differences in cognition in infancy and early childhood

## ACADEMIC POSITIONS

### Major Positions

1988-2001	Department of Human Development and Family Life, The University of Kansas
1982-1987	Research Associate and Courtesy Assistant Professor
1988-1991	Assistant Professor
1992-1996	Associate Professor
1996-2001	Graduate Director
1997-2001	Professor
2001-2004	Associate Dean of the Graduate School, The University of Kansas

2002-present Department of Psychology, The University of Kansas  
 2002-present Professor  
 2004-2007 Co-Director, Developmental Graduate Program  
 2005-2007 Graduate Director  
 2005-2006 Acting Chairperson

2004-present Schiefelbusch Institute for Life Span Studies, The University of Kansas  
 2004-2007 Associate Director for Cognitive Neuroscience  
 2008 Interim Director  
 2008-present Director

### **Other Positions/Titles**

1981-1982 Instructor, Department of Psychology, Youngstown State University  
 1982-1985 PHS Postdoctoral Trainee, Bureau of Child Research, University of Kansas  
 1985-1988 Research Associate, Bureau of Child Research, University of Kansas  
 1977-1982 Graduate Research/Teaching Assistant, Department of Psychology, State University of New York at Buffalo  
 1979-1981 Part-Time Faculty, Department of Psychology, Canisius College  
 1980-1981 Part-Time Faculty, Department of Psychology, Niagara University  
 1990-present Graduate Faculty Member (Regular/Dissertation status), University of Kansas  
 1989-1991 Courtesy Assistant Professor of Psychology, The University of Kansas  
 1991-1996 Courtesy Associate Professor of Psychology, The University of Kansas  
 1993-present Faculty Chair, Institutional Review Board, University of Kansas Lawrence Campus  
 1996-2001 Courtesy Professor of Psychology, The University of Kansas  
 1989-1995 Director, Communications and Graphics Core, Mental Retardation Research Center, Bureau of Child Research, The University of Kansas  
 1995-2001 Graduate Director, Human Development and Family Life, The University of Kansas  
 1996-2000 Co-Director, Technology Enhancement Core, Mental Retardation Research Center, Schiefelbusch Institute of Life Span Studies, The University of Kansas  
 1990-present Participating Faculty, Child Language Doctoral Program, The University of Kansas  
 1998-2003 Participating Faculty, Interdisciplinary Training Grant in Mental Retardation/Developmental Disabilities  
 1998 Professor/Faculty Liaison, Human Biology Program, University of Kansas  
 2000-present Professor/Participating Faculty, Neuroscience Doctoral Program, University of Kansas/University of Kansas Medical Center.  
 2002-2003 Courtesy Professor, Human Development and Family Life  
 2002-2009 Director, Participant and Recruitment Core, Center for Behavioral Neuroscience in Speech and Communication Disorders  
 2003 Visiting Scholar, Department of Psychology, University of South Carolina

### **COURSES TAUGHT**

#### **Undergraduate**

Research Methods in Psychology, Youngstown State University  
 Developmental Psychology, Youngstown State University  
 Infant Behavior and Development, University of Kansas  
 Cognitive Development, University of Kansas  
 Introductory Psychology, University of Kansas  
 Cognitive Psychology, University of Kansas

## Graduate

Advanced Developmental Psychology, Youngstown State University/University of Kansas  
Attention, Perception, and Learning in Infancy, University of Kansas  
Design and Analysis for Developmental Research, University of Kansas  
Cognitive Development, University of Kansas  
Biobehavioral Plasticity and Development, University of Kansas  
Developmental Theory: History and Systems, University of Kansas  
Neuropsychology of Individual Differences, University of Kansas  
Developmental Cognitive Neuroscience, University of Kansas

*Student evaluations for most of these courses are available upon request*

## PUBLICATIONS

### Books

1. Colombo, J., and Fagen, J. W. (Eds., 1990). *Individual differences in infancy: Reliability, stability, and prediction*. Hillsdale, NJ: Lawrence Erlbaum and Associates.
2. Horowitz, F. D., & Colombo, J. (Eds., 1990). *Infancy research: A summative look and directions for the future*. (A special issue of the *Merrill-Palmer Quarterly*) Detroit, MI: Wayne State University Press.
3. Colombo, J. (1993). *Infant cognition: Predicting later intellectual functioning*. Newbury Park, CA: Sage Publications, Inc.
4. Coldren, J.T. & Colombo, J. (1994). The nature and processes of preverbal learning: Implications from nine-month-old infants' discrimination problem solving. *Monographs of the Society for Research in Child Development*, 59(4, Whole No. 249). (PMID: 7997251)
5. Colombo, J., McCardle, P., & Freund, L. (Eds., 2009). *Infant pathways to language: Methods, models, and research directions*. New York, NY: Psychology Press/Taylor and Francis.

### Journal Articles<sup>1</sup>

1. Meacham, J. A., and Colombo, J. (1979). External cues facilitate prospective remembering in 5- and 7-year-olds. *Journal of Educational Research*, 3, 299-301.
2. Colombo, J., and Bundy, R.S. (1981). A method for the measurement of infant auditory selectivity. *Infant Behavior and Development*, 4, 229-231.
3. Bundy, R. S., Colombo, J., and Singer, J. T. (1982). Pitch perception in infancy. *Developmental Psychology*, 18, 10-14.
4. Colombo, J. (1982). The critical period concept: Research, methodology, and conceptual issues. *Psychological Bulletin*, 92, 260-275. (PMID: 7071261)
5. Colombo, J., and Bundy, R. S. (1983). Infant response to auditory familiarity and novelty. *Infant Behavior and Development*, 6, 305-311.
6. Colombo, J., Laurie, C. A., Martelli, T. A., and Hartig, B. R. (1984). Stimulus context and infant orientation discrimination. *Journal of Experimental Child Psychology*, 37, 576-586. (PMID: 6747549)
7. Colombo, J., and Horowitz, F. D. (1985). A parametric study of the infant control procedure. *Infant Behavior and Development*, 8, 117-121.
8. Colombo, J. (1985). Infant attention to spectral complexity. *Journal of Genetic Psychology*, 146, 519-522. (PMID: 3835230)

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<sup>1</sup>Note: asterisks indicate shared primary authorship

9. Colombo, J., and Horowitz, F. D. (1986). Infants' attentional responses to frequency modulated sweeps. *Child Development*, *57*, 287-291. (PMID: 3956313)
10. Colombo\*, J., O'Brien\*, M., Mitchell, D. W., and Horowitz, F. D. (1986). Stimulus salience and relational processing. *Infant Behavior and Development*, *9*, 377-380.
11. Colombo, J., Mitchell, D. W., O'Brien, M., and Horowitz, F. D. (1987). Stability of infant visual habituation during the first year. *Child Development*, *58*, 474-489. (PMID: 3829788)
12. Colombo, J., Mitchell, D. W., O'Brien, M., and Horowitz, F. D. (1987). Stimulus and motoric influences on visual habituation at three months. *Infant Behavior and Development*, *10*, 173-181.
13. Colombo\*, J., O'Brien\*, M., Mitchell, D. W., Roberts, K. R., and Horowitz, F. D. (1987). A lower boundary for visual categorization in preverbal infants. *Journal of Child Language*, *14*, 383-385. (PMID: 3611249)
14. Colombo, J., and Horowitz, F. D. (1987). Behavioral state as a lead variable in neonatal research. *Merrill-Palmer Quarterly of Behavioral Development*, *33*, 423-438.
15. Zheng, S.-Y., Colombo, J., and Horowitz, F. D. (1988). Psychological development of the only child: Implications for the Chinese single-child policy. *Journal of Practical Pediatrics* (Beijing, China), *5*, 271-272.
16. Colombo, J., and Mitchell, D. W. (1988). Infant visual habituation: In defense of an information-processing analysis. *European Bulletin of Cognitive Psychology/Cahiers de Psychologie Cognitive*, *8*, 455-461.
17. Colombo, J., Mitchell, D. W., and Horowitz, F. D. (1988). Infant visual behavior in the paired-comparison paradigm: Test-retest and attention-performance relations. *Child Development*, *59*, 1198-1210. (PMID: 3168636)
18. Moss, M. M., Colombo, J., Mitchell, D. W., and Horowitz, F. D. (1988). Neonatal behavioral organization and 3-month visual discrimination. *Child Development*, *59*, 1211-1220. (PMID: 3168637)
19. Zheng, S.-Y., and Colombo, J. (1989). Gender differences, family configuration, and preschool social participation. *Journal of Genetic Psychology*, *150*, 45-50.
20. Colombo\*, J., Moss\*, M. M., and Horowitz, F. D. (1989). Neonatal state profiles: Reliability and short-term prediction of neurobehavioral status. *Child Development*, *60*, 1102-1110. (PMID: 2805889).
21. Bundy, R. S., Colombo, J., and Warnick-Yarmel, P. (1989). Association learning and pitch perception. *Bulletin of the Psychonomic Society*, *27*, 234-236.
22. Colombo, J., Mitchell, D. W., Dodd, J. D., Coldren, J. T., and Horowitz, F. D. (1989). Longitudinal correlates of infant attention in the paired comparison paradigm. *Intelligence*, *13*, 33-42.
23. Colombo, J., McCollam, K., Coldren, J. T., Mitchell, D. W., and Rash, S. J. (1990). Form categorization in 10-month-old infants. *Journal of Experimental Child Psychology*, *49*, 173-188. (PMID: 2332720).
24. Horowitz, F. D., and Colombo, J. (1990). Future agendas and directions for infancy research. *Merrill-Palmer Quarterly of Behavioral Development*, *36*, 173-178.
25. Colombo, J., Mitchell, D. W., Coldren, J. T., and Atwater, J. D. (1990). Discrimination learning during the first year of life: Stimulus and positional cues. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *16*, 98-109. (PMID: 2136753)
26. Colombo, J., Mitchell, D. W., Coldren, J. T., and Freeseaman, L. J. (1991). Individual differences in infant attention: Are short lookers faster processors or feature processors? *Child Development*, *62*, 1247-1257. (PMID: 1786713)

27. Freeseaman, L. J., Colombo, J., & Coldren, J. T. (1993). Individual differences in infant visual attention: Discrimination and generalization of global and local stimulus properties. *Child Development, 64*, 1191-1203. (PMID: 8404264)
28. Colombo, J., Frick, J. E., Ryther, J. S., Coldren, J. T., & Mitchell, D. W. (1995). Infants' detection of analogs of "motherese" in noise. *Merrill-Palmer Quarterly of Behavioral Development, 41*, 104-113.
29. Colombo, J. (1995). On the neural mechanisms underlying developmental and individual differences in infant fixation duration: Two hypotheses. *Developmental Review, 15*, 97-135.
30. Colombo\*, J., Ryther\*, J. S., Frick, J. E., & Gifford, J. J. (1995). A visual "pop-out" effect in infants: Evidence for preattentive search in 3- and 4-month-olds. *Psychonomic Bulletin and Review, 2*, 266-268.
31. Colombo, J., Freeseaman, L. J., Coldren, J. T. & Frick, J. E. (1995). Individual differences in infant visual fixation: Dominance of global and local stimulus properties. *Cognitive Development, 10*, 271-285.
32. Colombo, J. (1995). Cost, utility, and the judgments of institutional review boards. *Psychological Science, 6*, 318-319.
33. Frick, J. E. & Colombo, J. (1996). Individual differences in infant visual attention: Recognition of degraded visual forms by 4-month-olds. *Child Development, 67*, 188-204. (PMID: 8605827).
34. Colombo, J., Frick, J. E., Ryther, J. S., & Gifford, J. J. (1996). Individual differences in infant visual attention: Four-month-olds' recognition of forms connoted by complementary contour. *Infant Behavior and Development, 19*, 113-119.
35. Saxon, T. F., Frick, J. E., & Colombo, J. (1997). Individual differences in infant visual fixation and maternal interactional styles. *Merrill-Palmer Quarterly of Behavioral Development, 43*, 48-66.
36. Colombo, J., Frick, J.E., & Gorman, S.A. (1997). Sensitization during visual habituation sequences: Procedural effects and individual differences. *Journal of Experimental Child Psychology, 67*, 223-235. (PMID: 9388807)
37. Stoecker, J. J, Colombo, J., & Frick, J. E. & Ryther, J. S. (1998). Long- and short-looking infants' recognition of symmetrical and asymmetrical visual forms. *Journal of Experimental Child Psychology, 71*, 63-78. (PMID: 9742186)
38. Frick, J.E., Colombo, J., & Saxon, T. F. (1999). Individual and developmental differences in disengagement of fixation in early infancy. *Child Development 70*, 537-548. (PMID: 10368908)
39. Saxon\*, T. F., Colombo\*, J., Robinson, E. L., & Frick, J. E. (2000). Dyadic interaction profiles in infancy and preschool intelligence. *Journal of School Psychology, 38*, 9-25.
40. Frick\*, J.E., Colombo\*, J., & Allen, J.R. (2000). The temporal sequence of global-local processing in 3-month-olds. *Infancy, 1*, 375-386.
41. Colombo, J. (2001). The development of visual attention in infancy. *Annual Review of Psychology, 52*, 337-367. (PMID: 11148309)
42. Colombo, J. (2001). A cognitive-neuroscience approach to infant contingency processing and perception. *Bulletin of the Menninger Clinic, 65*, 321-334. (PMID: 11531129)
43. Colombo, J., Richman, W. A., Shaddy, D. J., Greenhoot, A. F., & Maikranz, J. (2001). HR-Defined phases of attention, look duration, and infant performance in the paired-comparison paradigm. *Child Development, 72*, 1605-1616. (PMID: 11768135)
44. Maikranz, J. M., Colombo, J., Richman, W. A., & Frick, J. E. (2001). Autonomic indicators of sensitization and look duration in infancy. *Infant Behavior and Development, 23*, 137-151.

45. Colombo, J. (2001). Recent advances in the assessment of infant cognition: Implications for LC-PUFA supplementation studies. *Lipids*, 36, 919-926. (PMID: 11724464)
46. Casebolt, K., Colombo, J., & Chandler, J. (2002). Teachers' perceptions and the TOMI as predictors of visual/visual-motor skills in motorically impaired and non-impaired elementary school-aged children. *Physical Educator*, 60, 34-41.
47. Colombo, J., & Richman, W. A. (2002). Infant timekeeping: Anticipation and attention in 4-month-olds. *Psychological Science*, 13, 475-479. (PMID: 12219817)
48. Colombo, J. (2002). Infant attention grows up: The emergence of a developmental cognitive neuroscience perspective. *Current Directions in Psychological Science*, 11, 196-199.
49. Greenhoot, A. F., Semb, G., Colombo, J., & Schreiber, T. S. (2004). Scientific reasoning in college students: The roles of prior beliefs and reasoning components in causal inference. *Journal of Applied Cognitive Psychology*, 18, 203-221
50. Colombo, J., Shaddy, D. J., Richman, W. A., Maikranz, J. M., & Blaga, O. (2004). Developmental course of visual habituation and preschool cognitive and language outcome. *Infancy*, 5, 1-38.
51. Shaddy, D. J., & Colombo, J. (2004). Developmental change in attention: Dynamic and static stimuli. *Infancy*, 5, 355-365.
52. Colombo\*, J., Kannass\*, K. N., Shaddy, D. J., Kundurthi, S., Anderson, C. J., Blaga, O. M., & Carlson, S. E. (2004). Maternal DHA and the development of attention in infancy and toddlerhood. *Child Development*, 75, 1254-1267. (PMID: 15260876)
53. Blaga, O., & Colombo, J. (2006). Visual processing and infant ocular latencies in the overlap paradigm. *Developmental Psychology*, 42, 1069-1076. (PMID: 17087542)
54. Cheatham, C.L., Colombo, J., & Carlson, S.E. (2006). N-3 fatty acids and cognitive and visual acuity development: Methodological and conceptual considerations. *American Journal of Clinical Nutrition*, 83 (supplement), 1458S-1466S. (PMID: 16841855)
55. Wainwright, P. & Colombo, J. (2006). Nutrition and the development of cognitive functions: Interpretation of behavioral studies in animals and human infants. *American Journal of Clinical Nutrition*, 84, 1-10. (PMID: 17093144)
56. Anderson, C.J., Shaddy, D.J., & Colombo, J. (2006). Pupillary responses and visual scanning in children with autism spectrum disorder. *Journal of Clinical and Experimental Neuropsychology*, 28, 1238-1256. (PMID: 16840248)
57. Kannass, K.N., & Colombo, J. (2007). The effects of continuous and intermittent distractors on cognitive performance and attention in preschoolers. *Journal of Cognitive Development*, 8, 63-78.
58. Richman, W. A., & Colombo, J. (2007). Joint book reading in the second year and vocabulary outcomes. *Journal of Research in Childhood Education*, 21, 242-253.
59. Aylward, B.S., Roberts, M.C., Colombo, J., & Steele, R.G. (2008). Identifying the classics: An examination of articles published in the journal of pediatric psychology from 1976-2006. *Journal of Pediatric Psychology*, 33(6), 576-589. (PMID: 18073233).
60. Gustafson, K., Colombo, J., & Carlson, S. E. (2008). Docosahexaenoic acid and cognitive function: Is the link mediated by the autonomic nervous system? *Prostaglandins, Leukotrienes and Essential Fatty Acids*. 79, 135-140. (PMID: 18930644)
61. Blaga, O.M., Anderson, C. J., Shaddy, D. J., Kannass, K. N., Little, T. D., & Colombo, J. (2009). Structure and continuity of intelligence during early childhood. *Intelligence*, 37, 106-113 (PMID: 20046249; PMCID: PMC2631272)

62. Kannass, K.N., Colombo, J., & Carlson, S. E. (2009). Maternal DHA levels and toddler free play attention. *Developmental Neuropsychology*, 34(2), 159-174. (PMID: 19267293)
63. Anderson, C. J., & Colombo, J. (2009). Larger tonic pupil size in young children with autism spectrum disorder. *Developmental Psychobiology*, 51, 207-211. (PMID: 18988196).
64. Rankin, C. H., Abrams, T., Barry, R. J., Bhatnagar, S., Clayton, D. F., Colombo, J., Coppola, G., Geyer, M. A., Glanzman, D. L., Marsland, S., McSweeney, F. K., Wilson, D. A., Wu, C.-F., & Thompson, R. F. (2009). Habituation: An evaluation and revision of Thompson and Spencer (1966). *Neurobiology of Learning and Memory*, 92, 135-138. (PMID: 18854219; PMCID: PMC2754195)
65. Colombo, J., & Mitchell, D. W. (2009). Infant visual habituation. *Neurobiology of Learning and Memory*, 92, 225-234. (PMID: 18620070; PMCID: PMC2758574)
66. Harris, W. S., Mozaffarian, D., Lefevre, M., Toner, C. D., Colombo, J., Cunnane, S. C., Holden, J. M., Klurfeld, D. M., Morris, M. C. & Whelan, J. (2009). Towards establishing dietary reference intakes for long-chain omega-3 fatty acids. *Journal of Nutrition*, 139(4), 804S-819S. (PMID: 19244379)
67. Coldren, J.T. & Colombo, J. (2009). Attention as a cueing function during kindergarten children's dimensional change task performance. *Infant and Child Development*, 18(5), 441-454. (DOI: 10.1002/icd.632)
68. Colombo, J., Shaddy, D. J., Anderson, C. J., Blaga, O. M., Gibson, L. J., & Kannass, K. N. (2010). What habituates in infant visual habituation? A psychophysiological analysis. *Infancy*, 15(2), 107-124. (Epub ahead of print, DOI: 10.1111/j.1532-7078.2009.00012.x)
69. Kannass, K. N., Colombo, J., & Wyss, N. (2010). Now, pay attention! The effects of instruction on children's attention. *Journal of Cognition and Development*, 11(4), 509-532. (PMID: 21218123; PMCID: PMC3015160)
70. Colombo, J., Carlson, S. E., Cheatham, C. L., Fitzgerald-Gustafson, K. M., Kepler, A., & Doty, T. (2011, in press). LCPUFA supplementation during infancy lowers heart rate and changes the distribution of attention. *Pediatric Research*, in press. (Epub ahead of print, doi: 10.1203/PDR.0b013e31822a59f5)
71. Roberts, J. E., Hatton, D. D., Bailey, D., Long, A.C.J., Anello, V., & Colombo, J. (2012, in press) Visual attention and autistic behavior in infants with fragile X syndrome. *Journal of Autism and Developmental Disabilities*.
72. Brez, C. N., & Colombo, J. (2012, in press). Your eyes say "no" but your heart says "yes": Behavioral and psychophysiological indices in infant quantitative processing. *Infancy*.

### **Book Chapters and Reprinted Articles**

1. Colombo, J. (1986). Recent studies in early auditory development. In G.J. Whitehurst (Ed.) *Annals of Child Development*, (Volume 3, pp. 53-98). Greenwich, Connecticut: JAI Press.
2. Colombo, J., and Horowitz, F. D. (1988). Behavioral state as a lead variable in neonatal research. In S. Chess, A. Thomas, & M. Hertzog (Eds., 1988), *Annual progress in child psychiatry and child development* (pp. 128-141). New York: Basic Books.
3. Colombo, J., & Mitchell, D. W. (1990). Individual and developmental differences in infant visual attention: Fixation time and information processing. In J. Colombo and J.W. Fagen (Eds.), *Individual differences in infancy: Reliability, stability, and prediction* (pp. 193-227). Hillsdale, NJ: Lawrence Erlbaum.
4. Colombo, J. (1997). Individual differences in infant cognition: Methods, measures and models. In J. Dobbing (Ed.), *Developing brain and behavior: The role of lipids in infant formulas* (Chapter text: pp. 339-372; Commentary and Author's replies: pp. 372-385). London: Academic Press.

5. Mitchell, D. W., & Colombo, J. (1997). Infant cognition and general intelligence. In W. Tomic & J. Kingma (Eds.), *Advances in cognition and educational practice: Reflections on the concept of intelligence* (pp. 101-119). Greenwich, CT: JAI Press.
6. Colombo, J. & Janowsky, J. S. (1998). A cognitive neuroscience approach to individual differences in infant cognition. In J. E. Richards (Ed.), *The cognitive neuroscience of attention: A developmental perspective* (pp. 363-392). Hillsdale, NJ: Lawrence Erlbaum.
7. Colombo, J. & Frick, J. E. (1999). Recent advances and issues in the study of preverbal intelligence. In M. Anderson (Ed.), *The development of intelligence* (pp. 46-71). East Sussex: Psychology Press.
8. Colombo, J., Shaddy, D. J., & Richman, W. A. (2000). Cognition, development, and exceptional talent in infancy. In R. Friedman & B. Shore (Eds.), *Talents unfolding: Cognition and development*. (pp. 123-148). Washington, DC: American Psychological Association.
9. Colombo, J., & Saxon, T. (2002). Infant attention and the development of cognition: Does the environment moderate continuity? In H. Fitzgerald, K. Karraker, & T. Luster (Eds.), *Infant development: Ecological perspectives*. (pp. 35-60). Washington, DC: Garland Press.
10. Colombo, J. (2003). Infant attention grows up: The emergence of a developmental cognitive neuroscience perspective. In J. Lerner & A. E. Alberts, (Eds.), *Current Directions in Developmental Psychology (1<sup>st</sup> Edition)*, pp. 18-26). New York: Prentice-Hall.
11. Colombo, J. (2004). Visual attention in infancy: Process and product in early cognitive development. In M. Posner (Ed.), *Cognitive neuroscience of attention* (pp. 329-341). New York: Guilford Press.
12. Colombo, J. & Cheatham, C. (2007). The emergence and basis of endogenous attention in infancy and early childhood. In R. Kail (Ed.), *Advances in child development and behavior* (Vol. 34, pp. 283-322). New York: Elsevier. (PMID: 17120808)
13. Colombo, J., Shaddy, D. J., Blaga, O. M., Anderson, C. J., & Kannass, K. N. (2009). High cognitive ability in infancy and early childhood. In F. D. Horowitz, R. F. Subotnik, & D. J. Matthews (Eds.), *The development of giftedness and talent across the life span* (pp. 23-42). Washington, DC: American Psychological Society Press.
14. Colombo, J., Shaddy, D.J., Blaga, O.M., Anderson, C.J., Kannass, K.N., & Richman, W. A. (2009). Attentional predictors of vocabulary from infancy. In J. Colombo, P. McCardle, & L. Freund (Eds.), *Infant pathways to language: Methods, models, and research directions* (pp. 143-168). New York, NY: Psychology Press/Taylor and Francis.
15. McCardle, P., Colombo, J., & Freund, L. (2009). Measuring language in infancy. In J. Colombo, P. McCardle, & L. Freund (Eds.), *Infant pathways to language: Methods, models, and research directions* (pp. 1-12). New York, NY: Psychology Press/Taylor and Francis.
16. Colombo, J., Kapa, L. & Curtindale, L. (2011). Varieties of attention in infancy. In L. M. Oakes, C. H. Cashon, M. Casasola & D. H. Rakison (Eds.), *Infant perception and cognition: Recent advances, emerging theories, and future directions*. (pp. 3-26) New York, NY: Oxford University Press.
17. Geldhof, G. J., Little, T. D., & Colombo, J. (2012, in press). Self-regulation across the lifespan. In R. Lerner (Series Ed.), M. Lamb & A. Freund (Vol. Eds.), *Handbook of Lifespan Development*. New York, NY: John Wiley.
18. Bornstein, M. H., & Colombo, J. (2012, in press). Infant cognitive functioning and child mental development. In S. Pauen & M. H. Bornstein (Eds.), *Early Childhood Development and Later Achievement*. New York: Cambridge University Press.



19. Colombo, J., Kannass, K. N., Walker, D. & Brez, C. D. (2012, in press). The development of attention in infancy and early childhood: Implications for early childhood and early intervention. In Odom, S.L., Pungello, E., & Gardner-Neblett, N. (Eds.), *Re-visioning the beginning: The implications of developmental and health science for infant/toddler care and poverty*. New York: Guilford Press.
20. Cheatham, C. L., Colombo, J., & Carlson, S. E. (2011, in press). Long chain fatty acids in the developing retina and brain. In D.F. Anderson, R.A. Polin, & W.W. Fox (Eds.), *Fetal and neonatal physiology* (4<sup>th</sup> Edition). New York: Elsevier.
21. Colombo, J., Brez, C. D., & Curtindale, L. C. (2012, in press). Infant perception and cognition. In R. M. Lerner, M. A. Easterbrooks, & J. Mistry (Volume Eds.), I. B. Weiner (Series Ed.), *Handbook of psychology, Volume 6: Developmental Psychology*. New York: John Wiley and Sons.

### **SELECTED PRESENTATIONS**

#### **Conferences Organized/Convened**

- 2005 *Measuring language in infancy*. Conference co-convened with Mabel Rice (Merrill Advanced Study Center at the University of Kansas) and Peggy McCardle (National Institute of Child Health and Human Development; National Institutes of Health), September 15-17, Tempe AZ.
- 2008 *Clinical trials on maternal and infant development*. Pre-conference meeting organized and convened (with Robert A. Gibson and Todd D. Little) for the International Society for the Study of Fatty Acids, Kansas City, MO.

#### **National and International Keynote/Plenary Addresses**

- 1993 *Early visual attention and later intelligence: Measures and mechanisms*. The 26th annual Gatlinburg Conference on Mental Retardation, Gatlinburg, Tennessee
- 2003 *Maternal DHA and the development of attention in infants and toddlers*. The Sonia Wolf Wilson Lecture in Human Ecology. University of Texas at Austin, Austin, TX.
- 2006 *Trials and tribulations in assessing the effects of risk and protective factors in early development*. Invited keynote address at the 39th annual Gatlinburg Conference on Mental Retardation, Gatlinburg, Tennessee
- 2007 *Nutrition, stimulation, and behavioral development*. Plenary address, Asian Paediatric Nutrition Congress, Beijing, China.
- 2008 *DHA and early biobehavioral development*. Plenary address, International Society for the Study of Fatty Acids and Lipids, Kansas City, MO.
- 2008 *Varieties of attention in infancy*. Plenary address, preconference workshop in honor of Leslie B. Cohen, International Conference on Infant Studies, Vancouver, British Columbia.
- 2010 *Lessons from Translational Science: Nutrition and Cognitive Development*. Invited address, Society for Research in Child Development, Montreal, Quebec, Canada.

#### **Invited Symposia, Panels, and Workshop Presentations**

- 1991 *The risks of creativity: Lessons from developmental psychology*. Invited commentary to Lewis P. Lipsitt's presentation to the Esther Katz Rosen Symposium on the Psychological Development of Gifted Children. Lawrence, KS
- 1992 *Recent advances in research on infant cognition*. Invited symposium presentation. Esther Katz Rosen Symposium on the Psychological Development of Gifted Children. The University of Kansas, Lawrence, Kansas.

- 1993 *Tracking trajectories of talent: Child prodigies growing up.* Invited commentary to Lynn T. Goldsmith's presentation at the Esther Katz Rosen Symposium on the Psychological Development of Gifted Children. Lawrence, KS.
- 1997 *The assessment of infant cognition: Methods, models, and measurement.* Invited Panel discussion and review, The 106<sup>th</sup> Ross Conference on Nutrition, Phoenix, Arizona
- 2000 *PUFA and Behavior: Recent advances in the study of early cognition.* Invited panel member. Polyunsaturated Fatty Acids in Maternal and Child Health. Workshop sponsored by the American Oil Chemists' Society, Kansas City, Missouri.  
*Infant contingency perception: A cognitive-neuroscience approach.* Invited panel member and discussant, G. Gergely and P. Fonagy, International Workshop on Infant Development. Menninger Clinic, Topeka, Kansas.
- 2001 *IRB issues and human subjects protection for the new millennium.* Invited conference session, Office of Special Education Projects Research Conference, Council on Exceptional Children, Washington, DC.  
*Measurement of looking time in infant-control and paired-comparison paradigms.* Invited panel member, R. N. Aslin and J. Mehler, McDonnell Foundation Workshop on the Measurement of Infant Perception, Cognition, and Language. Tarrytown House Conference Center, Tarrytown, NY.
- 2002 *Transient effects in development: A developmental systems theory approach to clinical trials and evaluation research.* Invited presentation. Mead Johnson Nutritionals International Workshop on DHA Research, University of Kansas Medical Center, Kansas City, KS.
- 2003 *Measuring attention in infants and toddlers.* (with Kathleen Kannass). Invited presentation. Mead Johnson Nutritionals International Workshop on DHA Research, University of Kansas Medical Center, Kansas City, KS.
- 2004 *DHA and cognitive function: Why development matters.* Invited presentation, University of Tennessee College-Wide Symposium. College of Education, Allied Health, and Family Science. Knoxville, TN.
- 2005 *High cognitive ability in infancy and early childhood.* Invited presentation, Conference on "Incorporating Conceptions of Giftedness into Theories and Research on Child, Adolescent, and Adult Development." The Graduate Center, City University of New York, The Center for Gifted Education Policy, American Psychological Association and Hunter College Center for Gifted Studies and Education.  
*Precursors and predictors of language from infancy.* Invited presentation, Conference on Measuring Language in Infancy sponsored by the Merrill Advanced Study Center and the National Institutes of Child Health and Human Development.  
*The effects of DHA on visual and cognitive development.* (with Susan Carlson and Carol Cheatham) Invited presentation. Omega-3 Fatty Acids: Recommendations for Therapeutics and Prevention, Columbia University College of Physicians and Surgeons, Institute of Human Nutrition, New York, NY.  
*New approaches to the assessment of infant cognition.* Invited presentation. Mead Johnson Speakers Development Program Meeting, Henderson, NV.

- 2007 *Visual habituation in human infants*. Invited presentation at Habituation: The Foundation of Attention and Learning. University of British Columbia, Vancouver, BC.  
*Institute of Education sciences workshop*. Preconference workshop on grantsmanship conducted by the Institute of Education Sciences. Society for Research in Child Development, March/April 2007, Boston, MA.  
*Assessing cognitive development and IQ in children*. Mead Johnson Speakers Series. Nationally-broadcast webconference for Mead Johnson Sponsored LEL (Local Education Lectures).  
*Transient developmental effects*. Invited preconference presentation, Asian Paediatric Nutrition Congress, Beijing, China.  
*Assessing attention in infants and toddlers as an outcome in nutritional research*. Invited symposium presentation in "Emerging issues: The role of nutrition in infant and toddler neural development," Steve Zeisel (organizer). Rizzo Conference Center, University of North Carolina, Chapel Hill, NC.
- 2008 *Attention, development, and prediction: Lessons from the Kansas Early Cognition Project*. 2008 Jacobs Foundation Conference on Early Childhood and the Prediction of Later Achievement, Sabina Pauen (organizer). Schloss Marbach, Ohningen, Germany.
- 2009 *The development of attention: From arousal to regulation in infancy and early childhood*. Spring 2009 Carolina Consortium on Human Development. Center for Developmental Science, University of North Carolina at Chapel Hill.  
*Assessment of cognitive function in infancy and early childhood*. Mead Johnson Nutrition Scientific Lecture series, Mead Johnson Nutrition, Evansville, IN.

#### FUNDED EXTERNAL GRANTS

- 1981-1982 *Auditory preference in infants* (PI: Robert S. Bundy, State University of New York at Buffalo. Co-PI: John Colombo, State University of New York at Buffalo). National Institute of Mental Health: MH14368. \$22,500
- 1986-1987 *Individual differences in infant visual habituation*. (PI: John Colombo, University of Kansas) National Institute of Mental Health: MH41395. \$22,500.
- 1989-1991 *State organization in high-risk neonates*. (PI: John Colombo, University of Kansas). March of Dimes Birth Defects Foundation Grant #12-89. \$37,000.
- 1989-1990 *Individual differences in infant learning: Stability and reliability of infant response in the synchronous reinforcement paradigm*. (PI: John Colombo, University of Kansas). National Institute of Mental Health: MH43246. \$37,500.
- 1990-1991 *Supplementary equipment grant*. (Co-PIs: John Colombo and John Wright, University of Kansas). National Institute of Mental Health. \$20,000.
- 1993-1997 *Individual differences in infant visual processing*. (PI: John Colombo, University of Kansas). National Institutes of Health (National Institute of Child Health and Development): HD29960. \$362,024.
- 1998-2003 *Infant visual attention and preschool cognitive outcome*. (PI: John Colombo, University of Kansas). National Institutes of Health (National Institute of Child Health and Human Development): HD35903. \$741,876.
- 2001-2003 *The effect of consuming docosahexaenoic acid (DHA) -enriched eggs during the last trimester of pregnancy on infant attention development*. (Co-PIs: Susan Carlson, University of Kansas Medical Center and John Colombo, University of Kansas). OMT-2000-02: OmegaTech, Inc/Martek Biosciences. \$302,919.

- 2002-2007 *University of Kansas Center for Behavioral Neuroscience in Communicative Disorders* (PI: Mabel L. Rice. Co-PIs: Steven Barlow, John Colombo, Susan Kemper, University of Kansas). National Institute of Communicative Disorders and Stroke, DC005803. Total costs: \$1,710,000.
- 2003-2005 *Perception and processing of time in infancy.* (PI: John Colombo, University of Kansas). National Science Foundation Grant (NSF 0318072). Total Costs: \$190,214.
- 2004-2009 *Zinc and biobehavioral development in early childhood* (PI: Laura Caulfield, Johns Hopkins School of Public Health; Subcontract Co-PIs: John Colombo, University of Kansas, and Nelly Zavaleta, Instituto de Investigaciones Nutricional). National Institutes of Health (National Institute of Child Health and Human Development) HD045430. Total costs: \$1,863,577; University of Kansas Subcontract: \$324,646.
- 2004-2005 *Conference on the assessment of cognition and language in infancy and early childhood.* (PI: John Colombo, University of Kansas. Co-PIs: Mabel Rice, University of Kansas, and Peg McCardle, National Institutes of Health). Supported by the University of Kansas Merrill Advanced Study Center, the National Institute of Child Health and Human Development, and the National Science Foundation. Total costs: \$40,000.
- 2003-2005 *The Effects Of Infant Formula Supplemented With Long Chain Polyunsaturated Fatty Acids On Visual And Cognitive Development In Term Infants.* (PI: Susan E. Carlson, University of Kansas Medical Center; Co-PI: John Colombo, University of Kansas). MJN 3370-4: Mead Johnson Nutritionals, Inc. (Research Division), \$600,000.
- 2005-2007 *Learning from dynamic visual displays.* (PI: J Heppert. Co-PIs: S. Case and J. Colombo, University of Kansas). National Science Foundation Science of Learning Center Catalyst Grant (NSF 0521860). Total costs: \$199,941
- 2006-2011 *DHA supplementation and pregnancy outcome* (PI: Susan Carlson, University of Kansas Medical Center. Co-PI: John Colombo, University of Kansas). National Institutes of Health ((National Institute of Child Health and Human Development) HD047315. Total costs: \$2,065,987; University of Kansas-Lawrence Subcontract: \$917,821.
- 2006-2007 *The effects of infant formula supplemented with long chain polyunsaturated fatty acids on visual and cognitive development in term infants.* (PI: Susan E. Carlson, University of Kansas Medical Center; Co-PI: John Colombo, University of Kansas). MJN 3370-4 (continuation): Mead Johnson Nutritionals, Inc. (Research Division), \$715,000.
- 2008-2013 *University of Kansas Center for Behavioral Neuroscience in Communicative Disorders* (PI: Mabel L. Rice. Co-PIs: Steven Barlow, John Colombo, Susan Kemper, University of Kansas). National Institute of Communicative Disorders and Stroke, DC005803 (competitive continuation). Total costs: \$2,158,851.
- 2007-2012 *Training researchers in language impairments.* (PI: Mabel L. Rice. Training Faculty: Susan Kemper, Hugh Catts, John Colombo, Steven Warren). National Institute of Communicative Disorders and Stroke, T32DC000052, Total costs: \$1,137,645.
- 2008-2009 *Executive Functions of the Frontal Lobes and DHA: Proposed Follow-Up of Current Kansas City Mead Johnson Nutritionals Study Participants* (PIs: Susan Carlson, John Colombo). Mead Johnson Nutritionals. Total costs: \$279,814.
- 2008 *Clinical trials and maternal-infant outcomes workshop: Satellite to ISSFAL 2008.* (PI: John Colombo). Mead Johnson Nutritionals. Total costs: \$6,500.

- 2008-2011 *Kansas Intellectual and Developmental Disabilities Research Center.* (PI: Peter Smith, Co-PI: John Colombo). National Institutes of Health (Eunice Shriver National Institute of Child Health and Human Development), P30HD02528. Total costs for Years 42-45: \$3,840,552
- 2007-2012 *Postdoctoral training in translational research on intellectual and developmental disabilities.* (PI: Kathryn Saunders; Co-PI: John Colombo). National Institutes of Health: Eunice Shriver National Child Health and Human Development, T32HD007525. Total Costs: \$1,059,652.
- 2009-2011 *The effects of DHA on fetal heart rate and development.* (PI: Kathleen Gustafson, University of Kansas Medical Center. Co-PIs: John Colombo, University of Kansas, Susan Carlson, University of Kansas Medical Center). National Institutes of Health: Eunice Shriver National Institute for Child Health and Human Development, R21 HD059019. Total costs: \$275,000.
- 2009-2011 *Pupil size and circadian salivary variations in Autism Spectrum Disorder.* (PI: John Colombo). National Institute of Mental Health, R03 MH084061-01, \$139,636.
- 2012-2017 *DHA supplementation and pregnancy outcome.* (Shared PIs: John Colombo, University of Kansas and Susan Carlson, University of Kansas Medical Center. Co-PIs: Kathleen Gustafson and Byron Gajewski, University of Kansas Medical Center). Eunice Shriver National Institute for Child Health and Human Development, 2 R01 HD047315. Total costs: \$2,858,697. (Priority score 13; 1<sup>st</sup> percentile, JIT processed)
- 2012-2017 *Kansas Intellectual and Developmental Disabilities Research Center.* (PI: John Colombo; Co-PI: Peter Smith). National Institutes of Health (Eunice Shriver National Institute of Child Health and Human Development), P30HD02528-45. \$8,109,647. (Priority score 28; JIT processed)

## **AWARDS/HONORS**

### **Personal Awards/Honors**

- 1982 Youngstown State University Research Professorship.
- 1982 Postdoctoral Traineeship. University of Kansas
- 1983 Election to Sigma Xi
- 1988 Election to The Psychonomic Society
- 1989 Charter Member, American Psychological Society
- 2001 J. Michael Young Outstanding Academic Advisor Award for the Social Sciences, College of Liberal Arts and Sciences, University of Kansas
- 2002 Outstanding Graduate and Professional Mentor, Graduate and Professional Student Association, University of Kansas
- 2002 Chancellor's Award for Graduate and Professional Mentoring, Graduate and Professional Student Association, University of Kansas
- 2002 Fellow, Division 7, American Psychological Association
- 2003 Fellow, American Psychological Society
- 2005 Recognition for Excellence in Graduate Teaching. Award from the Center for Teaching Excellence, University of Kansas. Nominated and elected to receive this award by graduate students in the Department of Psychology

## SELECTED PROFESSIONAL ACTIVITIES AND SERVICE

### Editorships and Editorial Boards

- 1981-present *Child Development*  
Editorial Board/Consulting Editor, 1982-1985, 1991-1997, 2003-2007  
Associate Editor, 2007-2013
- 1995- present *Infant Behavior and Development*
- 1999- 2008 *Journal of Experimental Child Psychology*
- 2000- present *Infancy*
- 2002- present *Journal of Applied Developmental Psychology*
- 2007- present *International Journal of Pediatrics*
- 2009-present *Developmental Disabilities Research Reviews*

### Federal and Private Grant Panel Review Committees

- 1989 Ad-Hoc reviewer, March of Dimes Birth Defects Foundation
- 1992-present Ad-hoc reviewing, National Science Foundation
- 1992 New York University Research Challenge Fund
- 1992-present National Institute of Health Consultant Pool
- 1994-2001 Behavioral and Social Sciences Program Review Committee, March of Dimes Birth Defects Foundation
- 1994-1996 National Institutes of Mental Health B/START Program
- 1994 American Psychological Association Student Travel Awards
- 1995 National Institute of Child Health and Human Development, HUD-3 Study Section
- 1997 The Wellcome Trust, London, UK
- 1999 National Institute of Child Health and Human Development, HUD-1 Study Section
- 2000-2001 National Institutes of Health, BBBP-4 Study Section
- 2001-2002 National Science Foundation, Child Research Initiative Panel
- 2001-2006 National Science Foundation, Development and Learning Sciences Panel
- 2003 National Institutes of Health, Special Emphasis Study Section (Attention and Cognition in Development)
- 2004-2005 United States Department of Education, Institute of Education Sciences review panel (Math and Science Education)
- 2005-2007 Chair, United States Department of Education, Institute of Education Sciences review panel (Postdoctoral Trainee Grants)
- 2006-2008 Standing Panel Member, United States Department of Education, Basic Processes (Cognition and Student Learning), Institute of Education Sciences
- 2007 Ad-hoc reviewer, Israel Science Foundation
- 2008 Reviewer, Center of Excellence for Family and Individual Development. Internal Investment Program, Notre Dame University, South Bend, IN
- 2008, 2010 Selection Committee, Outstanding Predoctoral Fellow, Institute for Education Sciences, United States Department of Education, Washington DC.
- 2010 Natural Sciences and Engineering Research Council of Canada
- 2010 National Institutes of Health, BBBP-D52 Study Section, Special Emphasis Section: Methodology and Measurement in the Behavioral and Social Sciences

2011-2014 US Department of Education, Institute of Education Sciences. Continuing panelist for the Basic Processes competition.