

Curriculum Vitae

Robert Lickliter Ph.D.

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Professor of Psychology
 Director, Developmental Psychobiology Lab
 Co-Director, Infant Development Research Center
 Florida International University
 Miami, Florida 33199

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Education:

- Post-doc University of North Carolina, Greensboro (1983-1986)
 Developmental Psychobiology
- Ph.D. University of California, Davis (1983)
 Animal Behavior/Psychobiology
- M.S. University of California, Davis (1979)
 Human Development
- B.S. University of California, Davis (1975)
 Human Development

Academic and Research Positions:

- 2001- Professor
 Department of Psychology
 Florida International University
- 2001- Adjunct Research Professor
 Department of Pediatrics
 University of Miami Medical School
- 1996-2001 Professor
 Department of Psychology
 Virginia Polytechnic Institute & State University
- 1994 Visiting Research Scientist
 Infant Perception Lab
 New York Institute for Basic Research in Developmental Disabilities
 Staten Island, NY

- 1991-1996 Associate Professor
Department of Psychology
Virginia Polytechnic Institute & State University
- 1986-1991 Assistant Professor
Department of Psychology
Virginia Polytechnic Institute & State University
- 1983-1986 Postdoctoral Research Associate
Department of Psychology
University of North Carolina, Greensboro
- 1978-1980 Research Associate in Human Development
Department of Applied Behavioral Sciences
University of California, Davis

Administrative Positions:

- 2007- Director of Graduate Studies (Developmental, I/O, Legal Ph.D. programs)
Department of Psychology
Florida International University
- 2003- Co-Director, Infant Development Research Center
Department of Psychology
Florida International University
- 1994-1996 Director, Psychological Sciences Graduate Program
Department of Psychology
Virginia Polytechnic Institute & State University
- 1992-1994 Director, Developmental Psychology Graduate Program
Department of Psychology
Virginia Polytechnic Institute & State University
- 1989-1992 Director of Graduate Studies (Clinical, I/O, Developmental, and Experimental
Ph.D. programs)
Department of Psychology
Virginia Polytechnic Institute & State University

Awards and Honors:

Fellow, American Psychological Association (*Division 6, Behavioral Neuroscience and Comparative Psychology*)

Research Scientist Career Development Award (1996-2001)
National Institute of Mental Health/NIH

Frank Beach Comparative Psychology Award (1997)
Division 6, American Psychological Association

Certificate of Teaching Excellence (1992)
 College of Arts and Sciences
 Virginia Polytechnic Institute & State University

Distinguished Alumnus Lecturer (1991)
 Division of Biological Sciences
 University of California, Davis

Elected to Sigma Xi, the Scientific Research Society (1985)

NIH Postdoctoral Research Fellowship (1983-1986)
 Department of Psychology
 University of North Carolina, Greensboro

Chancellor's Research Fellowship (1980-1982)
 University of California, Davis

Professional Service:

Chair, Section on Biology, Development, and Evolution, Council of Human Development

Member, Committee on Animal Care and Ethics, American Psychological Association (2006-08)

President-Elect, President, Past-President, International Society for Developmental
 Psychobiology (2002-2005)

Secretary, International Society for Developmental Psychobiology (1996-1999)

Professional Affiliations:

American Association for the Advancement of Science

American Psychological Association

Association for Psychological Science

International Society of Comparative Psychology

International Society for Developmental Psychobiology

International Society for Infancy Studies

International Society for the History, Philosophy, and Social Studies of Biology

Society for Integrative and Comparative Biology

Editorial Activities:

Co-Editor

Special Issue *International Journal of Comparative Psychology* (2007)

Special Issue *Developmental Psychobiology* (2007)

Associate Editor

Developmental Science (2005-present)

Editorial Board

Developmental Psychobiology
Integrative Psychological and Behavioral Science
Journal of Developmental Processes
Open Psychology
Infancy (1999-2004)
Journal of Comparative Psychology (1994-2002)

Ad Hoc Reviewer

Animal Behaviour
Animal Cognition
Animal Learning and Behavior
Behavioral Neuroscience
Behaviour
Behavioral and Brain Sciences
Child Development
Child Development Perspectives
Chronobiology International
Cognitive, Affective, and Behavioral Neuroscience
Current Biology
Developmental Psychology
Developmental Science
Ecological Psychology
Ethology
Infancy
Infant Behavior and Development
International Journal of Comparative Psychology
Journal of Perinatology
Pediatrics
Physiology & Behavior
Psychological Bulletin
Psychological Review

Grant Reviewer:

National Science Foundation
 March of Dimes Research Foundation
 Biotechnology and Biological Sciences Research Council (United Kingdom)
 National Sciences Research Council of Canada
 Virginia Academy of Sciences

External Reviewer / Academic Promotion and Tenure

Department of Psychology, Wayne State University
 Department of Psychology, University of California, Davis (2)
 Department of Psychology, Pitzer College / Claremont Graduate School
 Department of Psychology, Yeshiva University
 Department of Psychology, Hunter College, City University of New York

Department of Psychiatry, SUNY Health Science Center, Brooklyn

Research Support / Funded Extramural Grants:

Perinatal Determinants of Intersensory Perception

National Institute of Child Health and Human Development (RO1 HD048423 / 2005-2010, \$898,891 total costs)

P.I.: Robert Lickliter

Science of Learning Initiative Catalyst Grant: South Florida Research Consortium

National Science Foundation (SBE-0350201 / 2004-2007, \$250,000 total costs)

Co-P.I.: Lorraine Bahrack and Robert Lickliter

Perinatal Determinants of Intersensory Perceptual Development

National Institute of Mental Health (RO1 MH62225 / 2000-2005, \$822,304 total costs)

P.I.: Robert Lickliter

Research Scientist Career Development Award

National Institute of Mental Health (KO2 MH01210 / 1996-2001, \$480,000 total costs)

P.I.: Robert Lickliter

Mechanisms of Perinatal Perceptual Organization II.

National Institute of Mental Health (RO1 MH48949 / 1995-2000, \$603,001 total costs)

P.I.: Robert Lickliter

Mechanisms of Perinatal Perceptual Organization I.

National Institute of Mental Health (RO1 MH48949 / 1991-1994, \$219,303 total costs)

P.I.: Robert Lickliter

Other Funded Grants:

Florida International University, Division of Sponsored Research and Training, Research Award for establishment of the Infant Development Research Center (2003-2006, \$50,000)

National Science Foundation Travel Grant, University of Queensland, Brisbane, Australia (1983)

Current Research Interests:

My research focuses on the development of intersensory perception in animal and human infants, with a particular interest on the role of selective attention in perceptual processing, learning, and memory. My theoretical efforts address the assumptive base of the nature-nurture debate, the role of experience in development, the relations between developmental and evolutionary theory, and the history of developmental thinking in biology and psychology.

Publications:

Books (*Edited*)

Lewkowicz, D.J. & **Lickliter, R.** (2002). *Conceptions of Development: Lessons from the Laboratory*. Psychology Press, New York.

Lewkowicz, D.J. & **Lickliter, R.** (1994). *Development of Intersensory Perception: Comparative Perspectives*. L. Erlbaum, Hillsdale, NJ.

Book Chapters

Lickliter, R., & Honeycutt, H. (in press). Rethinking epigenesis and evolution in light of developmental science. In: M. Blumberg, J. Freeman, S. Robinson (Eds.), *Developmental and Comparative Neuroscience: Epigenetics, Evolution, and Behavior*. Oxford University Press.

Bahrack, L.E., & **Lickliter, R.** (in press). Perceptual development: Intermodal perception. In: Bruce Goldstein (Ed.), *Encyclopedia of Perception*. Sage Publishers.

Johnston, T.D., & **Lickliter, R.** (in press). A developmental systems theory perspective on psychological change. In: J.P. Spencer, M. Thomas, & J.M. McClelland (Eds.), *Toward a Unified Theory of Development: Connectionism and Dynamic Systems Theory Re-Considered*. Oxford University Press.

Lickliter, R. (2008). Developmental dynamics: The new view from the life sciences. In: A. Fogel, B. King, & S. Shanker (Eds.), *Human Development in the 21st Century: Visionary Ideas from Systems Scientists*, pp.11-17. Cambridge University Press.

Fogel, A., Greenspan, S., King, B.J., **Lickliter, R.**, Shanker, S., & Toren, C. (2008). The dynamic systems approach to the social and behavioral sciences. In: A. Fogel, B. King, & S. Shanker (Eds.), *Human Development in the 21st Century: Visionary Ideas from Systems Scientists*, pp. 235-253. Cambridge University Press.

Honeycutt, H., & **Lickliter, R.** (2007). The developmental dynamics of adaptation. In: S. Gangestad & J. Simpson (Eds.), *The Evolution of Mind: Fundamental Questions and Controversies*, pp. 171-177. Guilford Press.

Lickliter, R. (2006). Developmental systems and psychological science. In: B. D. Midgley & E. K. Morris (Eds.), *Modern Perspectives on J. R. Kantor and Interbehaviorism*, pp. 173-194. Context Press, Reno, NV.

Gottlieb, G., Wahlsten, D., & **Lickliter, R.** (2006). The significance of biology for human development. In R. Lerner (Ed.), *Handbook of Child Psychology, Vol. 1: Theoretical Models of Human Development*, pp. 210-257. John Wiley, New York.

Lickliter, R. (2005). Prenatal sensory ecology and experience: Implications for perceptual and behavioral development in precocial birds. In: P. Slater, J. Rosenblatt, C. Snowden, T. Roper, H. J. Brockmann, & M. Naguib (Eds.), *Advances in the Study of Behavior*, Vol. 35, pp. 235-274. Academic Press, New York.

Lickliter, R., & Bahrack, L.E. (2004). Perceptual development and the origins of multisensory responsiveness. In: G. Calvert, C. Spence, & B. Stein (Eds.), *Handbook of Multisensory Processes*, pp. 643-654. MIT Press, Cambridge, MA

Bahrack, L.E., & **Lickliter, R.** (2002). Intersensory redundancy guides early perceptual and cognitive development. In: R. Kail (Ed.), *Advances in Child Development and Behavior*, Vol. 30, pp. 154-187. Academic Press, New York.

Gottlieb, G., Wahlsten, D., & **Lickliter, R.** (1998). The significance of biology for human development: A developmental psychobiological systems view. In: R. Lerner (Ed.), *Handbook of Child Psychology, Vol. 1: Theoretical Models of Human Development*, pp. 233-274. John Wiley, New York.

Lickliter, R. (1996). Structured organisms and structured environments: Developmental systems and the construction of learning capacities. In: J. Valsiner and H.G. Voss (Eds.), *The Structure of Learning Processes*, pp. 86-108. Ablex, Norwood, NJ.

Lickliter, R. (1995). Embryonic sensory experience and intersensory development in precocial birds. In: J. P. Lecanuet, N.A. Krasnegor, W. Fifer, & W.P. Smotherman (Eds.), *Fetal Development: A Psychobiological Perspective*, pp. 281-294. L. Erlbaum, Hillsdale, NJ.

Lickliter, R., & Banker H. (1994). Prenatal components of intersensory development in precocial birds. In: D.J. Lewkowicz and R. Lickliter (Eds.), *Development of Intersensory Perception: Comparative Perspectives*, pp. 59-80. L. Erlbaum, Hillsdale, NJ.

Lewkowicz, D. J., & **Lickliter, R.** (1994). Insights into mechanisms of intersensory development: The value of a comparative, convergent-operations approach. In: D.J. Lewkowicz & R. Lickliter (Eds.), *Development of Intersensory Perception: Comparative Perspectives*, pp. 403-414. L. Erlbaum, Hillsdale, NJ.

Lickliter, R. (1993). Timing and the development of perinatal perceptual organization. In G. Turkewitz and D.A. Devenny (Eds.), *Developmental Time and Timing* pp. 105-124. L. Erlbaum, Hillsdale, NJ

Refereed Journal Articles (* denotes student author)

Schneider, S.M, & **Lickliter, R.** (in press) Operant generalization of auditory tempo in quail neonates. *Psychonomic Bulletin & Review*.

Markham, R.*, Shimizu, T., & **Lickliter, R.** (in press). Extrinsic embryonic sensory stimulation alters multimodal behavior and cellular activation. *Developmental Neurobiology*.

Lickliter, R. (2008). The growth of developmental thought: Implications for a new evolutionary psychology. *New Ideas in Psychology*, 26, 353-369.

Harshaw, C.*, Tourgeman, I.*, & **Lickliter, R.** (2008) Stimulus contingency and the malleability of species-typical auditory preferences in Northern bobwhite hatchlings. *Developmental Psychobiology*, 50, 460-472.

Lickliter, R. (2007). The dynamics of development and evolution: Insights from behavioral embryology. *Developmental Psychobiology*, 49, 749-757.

Lickliter, R., & Schneider, S.M. (2007). The role of development in evolutionary change: A view from comparative psychology. *International Journal of Comparative Psychology*, 19, 150-167

- Lickliter, R., & Bahrick, L.E.** (2007). Thinking about development: The value of animal-based research for the study of human development. *European Journal of Developmental Science, 1*, 172-183.
- Harshaw, C.* & **Lickliter, R.** (2007). Interactive and vicarious acquisition of auditory preferences in Northern bobwhite chicks. *Journal of Comparative Psychology, 121*, 320-331.
- Lazic, M.*, Schneider, S.M., & **Lickliter, R.** (2007). Enriched rearing facilitates spatial exploration in Northern bobwhite neonates. *Developmental Psychobiology, 49*, 548-551.
- Markham, R.G.* , Toth, G.* , & **Lickliter, R.** (2006). Prenatally elevated physiological arousal interferes with perceptual learning in bobwhite quail embryos. *Behavioral Neuroscience, 120*, 1315-1325.
- Lickliter, R., Bahrick, L.E., & Markham, R.G.*.** (2006). Intersensory redundancy educates selective attention in bobwhite quail embryos. *Developmental Science, 9*, 604-615.
- Jaime, M.* , & **Lickliter, R.** (2006). Prenatal exposure to temporal and spatial stimulus properties affects postnatal responsiveness to spatial contiguity in bobwhite quail chicks. *Developmental Psychobiology, 48*, 233-242.
- Bahrick, L.E., **Lickliter, R., & Flom, R.** (2006). Up versus down: The role of intersensory redundancy in the development of infants' sensitivity to the orientation of moving objects. *Infancy, 9*, 73-96.
- Bahrick, L.E., & **Lickliter, R.** (2004). Infants' perception of rhythm and tempo in unimodal and multimodal stimulation: A developmental test of the intersensory redundancy hypothesis. *Cognitive, Affective, and Behavioral Neuroscience, 4*, 141-151.
- Lickliter, R., Bahrick, L.E., & Honeycutt, H.*** (2004). Intersensory redundancy enhances memory in bobwhite quail embryos. *Infancy, 5*, 253-269.
- Reynolds, G.* & **Lickliter, R.** (2004). Modified prenatal sensory stimulation influences postnatal behavioral and perceptual responsiveness in bobwhite quail chicks. *Journal of Comparative Psychology, 118*, 172-178.
- Bahrick, L.E., **Lickliter, R., & Flom, R.** (2004). Intersensory redundancy guides infants' selective attention, perceptual and cognitive development. *Current Directions in Psychological Science, 13*, 99-102.
- Gottlieb, G., & **Lickliter, R.** (2004). The various roles of animal models in understanding human development. *Social Development, 13*, 311-325.
- Reynolds, G.* & **Lickliter, R.** (2003). Effects of redundant and non-redundant bimodal sensory stimulation on heart rate in bobwhite quail embryos. *Developmental Psychobiology, 43*, 304-310.

- Lickliter, R., & Honeycutt, H.*** (2003). Developmental dynamics: Towards a biologically plausible evolutionary psychology. *Psychological Bulletin, 129*, 819-835.
- Lickliter, R., & Honeycutt, H.*** (2003). Developmental dynamics and contemporary evolutionary psychology: Status quo or irreconcilable differences? *Psychological Bulletin, 129*, 866-872.
- Honeycutt, H.* & **Lickliter, R.** (2003). The influence of prenatal tactile and vestibular stimulation on auditory and visual responsiveness in bobwhite quail: A matter of timing. *Developmental Psychobiology, 43*, 71-81.
- Foushee, R.* & **Lickliter, R.** (2002). Early visual experience affects postnatal auditory responsiveness in bobwhite quail. *Journal of Comparative Psychology, 116*, 369-380.
- Bahrack, L.E., Flom, R., & **Lickliter, R.** (2002). Intersensory redundancy facilitates discrimination of tempo in 3-month-old infants. *Developmental Psychobiology, 41*, 352-363.
- Honeycutt, H.* & **Lickliter, R.** (2002). Prenatal experience and postnatal perceptual preferences: Evidence for attentional bias in bobwhite quail embryos. *Journal of Comparative Psychology, 116*, 270-276.
- Reynolds, G.* & **Lickliter, R.** (2002). Effects of prenatal sensory stimulation on heart rate and behavioral measures of arousal in bobwhite quail embryos. *Developmental Psychobiology, 41*, 112-122.
- Lickliter, R.,** Bahrack, L.E., & Honeycutt, H.* (2002). Intersensory redundancy facilitates prenatal perceptual learning in bobwhite quail embryos. *Developmental Psychology, 38*, 15-23.
- Lickliter, R. & Bahrack, L.E.** (2001). The salience of multimodal sensory stimulation in early development: Implications for the issue of ecological validity. *Infancy, 2*, 447-463.
- Honeycutt, H.* & **Lickliter, R.** (2001). Order-dependent timing of unimodal and multimodal stimulation affects prenatal auditory learning in bobwhite quail embryos. *Developmental Psychobiology, 38*, 1-10.
- Lickliter, R.** (2000). Atypical perinatal sensory stimulation and early perceptual development: Insights from developmental psychobiology. *Journal of Perinatology, 20*, 45-54.
- Philbin, M.K. & **Lickliter, R.** (2000). Sensory experience and the developing organism: A history of ideas and a view to the future. *Journal of Perinatology, 20*, 2-5.
- Lickliter, R.** (2000). The role of sensory stimulation in perinatal development: Insights from comparative research for the care of the high-risk infant. *Journal of Developmental and Behavioral Pediatrics, 21*, 437-447.

- Lickliter, R.** (2000). An ecological approach to behavioral development: Insights from comparative psychology. *Ecological Psychology, 12*, 319-334.
- Lickliter, R.** (2000). Kuo's epigenetic vision for psychological sciences: Dynamic developmental systems theory. *From Past to Future: Clark University Papers on the History of Psychology, 2*, 39-51.
- Lickliter, R.** & Bahrlick, L. E. (2000). The development of infant intersensory perception: Advantages of a comparative convergent-operations approach. *Psychological Bulletin, 126*, 260-280.
- Bahrlick, L. E., & **Lickliter, R.** (2000). Intersensory redundancy guides attentional selectivity and perceptual learning in infancy. *Developmental Psychology, 36*, 190-201.
- Carlsen, R. M.*, & **Lickliter, R.** (1999). Augmented prenatal tactile and vestibular stimulation alters postnatal auditory and visual responsiveness in bobwhite quail chicks. *Developmental Psychobiology, 35*, 215-225.
- Columbus, R.F.*, Sleigh, M.J.*, **Lickliter, R.** & Lewkowicz, D. (1998). Unimodal sensory experience interferes with responsiveness to the spatial contiguity of multimodal maternal cues in bobwhite quail chicks. *Infant Behavior and Development, 21*, 397-409.
- Marshall-Baker, A.*, **Lickliter, R.**, & Cooper, R.P. (1998). Prolonged exposure to a visual stimulus may promote behavioral organization in preterm infants. *Journal of Perinatal and Neonatal Nursing, 12*, 50-62.
- Sleigh, M.J.* & **Lickliter, R.** (1998). Timing of presentation of prenatal auditory stimulation alters auditory and visual responsiveness in bobwhite quail chicks. *Journal of Comparative Psychology, 112*, 153-160.
- Columbus, R.F.* & **Lickliter, R.** (1998). Modified sensory features of social stimulation alters the perceptual responsiveness of bobwhite quail chicks. *Journal of Comparative Psychology, 112*, 161-169.
- Sleigh, M.J.*, Columbus, R.F.*, & **Lickliter, R.** (1998). Intersensory experience and early perceptual development: Postnatal experience with multimodal maternal cues affects intersensory responsiveness in bobwhite quail chicks. *Developmental Psychology, 34*, 215-223.
- Casey, M.B.* & **Lickliter, R.** (1998). Prenatal visual experience facilitates the development of spatial turning bias in bobwhite quail chicks. *Developmental Psychobiology, 32*, 327-338.
- Sleigh, M.J.* & **Lickliter, R.** (1997). Augmented prenatal auditory stimulation alters postnatal perception, arousal, and survival in bobwhite quail chicks. *Developmental Psychobiology, 30*, 201-212.

- Casey, M.B.* & **Lickliter, R.** (1996). Effects of siblings on behavioral responsiveness to a maternal alarm call in bobwhite quail chicks. *Bird Behavior*, *11*, 17-24.
- Sleigh, M.J.* & **Lickliter, R.** (1996). Type and amount of prenatal stimulation alters perceptual responsiveness in bobwhite quail chicks. *Infant Behavior and Development*, *19*, 325-338.
- Lickliter, R.**, Lewkowicz, D.J. & Columbus, R.F.*(1996). Intersensory experience and early perceptual development: The role of spatial contiguity in bobwhite quail chicks' responsiveness to multimodal maternal cues. *Developmental Psychobiology*, *29*, 403-416.
- Sleigh, M.J.*, Columbus, R.*, & **Lickliter, R.** (1996). Type of prenatal sensory stimulation affects prenatal auditory learning in bobwhite quail chicks. *Journal of Comparative Psychology*, *110*, 233-242.
- Lickliter, R.**, & Lewkowicz, D.J. (1995). Intersensory experience and early perceptual development: Attenuated prenatal sensory stimulation affects postnatal auditory and visual responsiveness in bobwhite quail chicks. *Developmental Psychology*, *31*, 609-618.
- Sleigh, M.J.* & **Lickliter, R.** (1995). Augmented prenatal visual stimulation alters postnatal auditory and visual responsiveness in bobwhite quail chicks. *Developmental Psychobiology*, *28*, 353-366.
- McBride, T.* & **Lickliter, R.** (1995). Prenatal auditory experience directs species-typical perceptual responsiveness in bobwhite quail chicks. *Journal of Comparative Psychology*, *109*, 320-327.
- Lickliter, R.** (1994). Prenatal visual experience alters postnatal sensory dominance hierarchy in bobwhite quail chicks. *Infant Behavior and Development*, *17*, 185-193.
- McBride, T.* & **Lickliter, R.** (1994). Specific postnatal auditory stimulation interferes with species-typical visual responsiveness in bobwhite quail chicks. *Developmental Psychobiology*, *27*, 169-183.
- Lickliter, R.**, Dyer, A. B., & McBride, T.* (1993). Perceptual consequences of early social experience in precocial birds. *Behavioral Processes*, *30*, 185-200.
- McBride, T.* & **Lickliter, R.** (1993). Social experience with siblings fosters species-specific responsiveness to maternal visual cues in bobwhite quail chicks. *Journal of Comparative Psychology*, *107*, 320-327.
- Banker, H.* & **Lickliter, R.** (1993). Effects of early and delayed visual experience on intersensory development in bobwhite quail chicks. *Developmental Psychobiology*, *26*, 155-170.
- Lickliter, R.**, & Hellewell, T.* (1992). Contextual determinants of auditory learning in bobwhite quail embryos and hatchlings. *Developmental Psychobiology*, *25*, 17-31.
- Lickliter, R.**, & Stoumbos, J.* (1992). Modification of prenatal auditory experience alters postnatal auditory preferences of bobwhite quail chicks. *Quarterly Journal of Experimental Psychology*, *44B*, 199-214.

- Lickliter, R., & Stoumbos, J.*** (1991). Enhanced prenatal auditory experience facilitates species-specific visual responsiveness in bobwhite quail chicks. *Journal of Comparative Psychology, 105*, 89-94.
- Lickliter, R.** (1991). Animal behavior and context: The role of conspecifics in species-typical perceptual preferences. *Ecological Psychology, 3*, 11-23.
- Lickliter, R.** (1990). Premature visual experience facilitates visual responsiveness in bobwhite quail neonates. *Infant Behavior and Development, 13*, 487-496.
- Lickliter, R.** (1990). Premature visual stimulation accelerates intersensory functioning in bobwhite quail neonates. *Developmental Psychobiology, 23*, 15-27.
- Lickliter, R., & Ness, J. W.*** (1990). Domestication and comparative psychology: Status and strategy. *Journal of Comparative Psychology, 104*, 211-218.
- Lickliter, R., & Berry, T. D.*** (1990). The phylogeny fallacy: Developmental psychology's misapplication of evolutionary theory. *Developmental Review, 10*, 348-364.
- Lickliter, R., & Virkar, P.*** (1989). Intersensory functioning in bobwhite quail chicks: Early sensory dominance. *Developmental Psychobiology, 22*, 651-667.
- Lickliter, R.** (1989). Species-specific auditory preference of bobwhite quail chicks is altered by social interaction with siblings. *Journal of Comparative Psychology, 103*, 221-226.
- Dyer, A., **Lickliter, R., & Gottlieb, G.** (1989). Maternal and peer imprinting in mallard ducklings under experimentally simulated natural social conditions. *Developmental Psychobiology, 22*, 463-475.
- Lickliter, R., & Gottlieb, G.** (1988). Social specificity: Interaction with own species is necessary to foster species-specific maternal preference in ducklings. *Developmental Psychobiology, 21*, 311-321.
- Lickliter, R., & Gottlieb, G.** (1987). Retroactive excitation: Post-training social experience with siblings consolidates maternal imprinting in ducklings. *Journal of Comparative Psychology, 101*, 40-46.
- Lickliter, R.** (1987). Activity patterns and companion preferences of domestic goat kids. *Applied Animal Behavior Science, 19*, 137-145.
- Lickliter, R., & Gottlieb, G.** (1986). Training ducklings in broods interferes with maternal imprinting. *Developmental Psychobiology, 19*, 555-566.
- Lickliter, R., & Gottlieb, G.** (1986). Visually imprinted maternal preference in ducklings is redirected by social interaction with siblings. *Developmental Psychobiology, 19*, 265-277.
- Lickliter, R., & Gottlieb, G.** (1985). Social interaction with siblings is necessary for the visual imprinting of species-specific maternal preference in ducklings. *Journal of Comparative Psychology, 99*, 371-378.

Lickliter, R. (1985). Behavior associated with parturition in the domestic goat. *Applied Animal Behavior Science*, *13*, 335-345.

Lickliter, R. (1984). Mother-infant spatial relationships in domestic goats. *Applied Animal Behavior Science*, *13*, 93-100.

Lickliter, R. & Heron, J.R. (1984). Recognition of mother by newborn goats. *Applied Animal Behavior Science*, *12*, 187-193.

Lickliter, R. (1984). Hiding behavior in domestic goat kids. *Applied Animal Behavior Science*, *12*, 245-251.

Lickliter, R. (1982). Effects of a post-partum separation on maternal responsiveness in primiparous and multiparous domestic goats. *Applied Animal Ethology*, *8*, 537-542.

Invited Commentaries and Book Reviews

Lickliter, R. (in press). Theories of attachment: The long and winding road to an integrative developmental science. *Integrative Psychological and Behavioral Science*.

Lickliter, R. (2008). Representing development: Models, meaning, and the challenge of complexity. *Behavioral and Brain Sciences*, *31*, 342-343.

Lickliter, R., & Logan, C. (2007). Gilbert Gottlieb's legacy: Probabilistic epigenesis and the development of individuals and species. *Developmental Psychobiology*, *49*, 747-748.

Lickliter, R., & Schneider, S.M. (2007). Introduction: Building the bridge between development and evolution. *International Journal of Comparative Psychology*, *19*, iv-vi.

Lickliter, R. (2006). Gilbert Gottlieb: A scientific obituary. *Developmental Science*, *9*, v-vi.

Gottlieb, G., & **Lickliter, R.** (2005). Animal models and human development: Reply to Maestriperi. *Social Development*, *14*, 187.

Lickliter, R. (2004). The aims and accomplishments of comparative psychology. *Developmental Psychobiology*, *44*, 26-30.

Lickliter, R., & Honeycutt, H. (2003). Evolutionary approaches to cognitive development: Status and strategy. Review of The Dependent Gene, by D. S. Moore and The Origins of Human Nature, by D. Bjorklund & A. Pelligrini. *Journal of Cognition and Development*, *4*, 459-473.

Lickliter, R. (2001). The dynamics of language development: From perception to comprehension. *Developmental Science*, *4*, 21-23.

Lickliter, R. (1997). A synthetic and interdisciplinary approach to development. Review of: Developmental Psychobiology: An Interdisciplinary Science, by G. Michel & C. L. Moore. *Developmental Psychobiology*, *30*, 89-91.

Lewkowicz, D.J. & **Lickliter, R.** (1995). Developmental science comes of age. Review of: A Dynamic Systems Approach to the Development of Cognition and Action, by E. Thelen & L. Smith. *Journal of Cognitive Neuroscience*, 7, 512-514.

Lickliter, R. (1992). Scientific technology and psychobiological theory: The affordance of insight. Review of Developmental Psychobiology: New Methods and Changing Concepts, by H. Shair, G. Barr & M. Hofer. *Developmental Psychobiology*, 25, 623-626.

Journal Articles Currently Under Review

Bahrack, L.E., **Lickliter, R.**, Castellanos, I., & Molina, M.V. Intersensory redundancy and tempo discrimination in infancy: The roles of task difficulty and expertise. *Developmental Science*.

Jaime, M., Lopez, J.P., & **Lickliter, R.** Bobwhite quail neonates track the direction of human gaze. *Animal Cognition*.

Jaime, M., Bahrack, L.E., & **Lickliter, R.** The critical role of temporal synchrony in the facilitation of perceptual learning during prenatal development. *Infancy*.

Presentations at Scientific Conferences (selected from last 10 years, over 90 total)

Harshaw, C., & Lickliter, R. (2008). Prenatal experience, contingency, and the malleability of auditory preferences. Animal Behavior Society annual meeting, Snowbird, Utah.

Pham-Escobar, B., Vaillant, J., & Lickliter, R. (2008). Modified arousal interferes with perceptual learning in bobwhite quail embryos. American Psychological Association, Boston, MA.

Lickliter, R. (2008). Do we need to rethink our theories of development in light of epigenetics? International Conference on Infant Studies, Vancouver, Canada.

Harshaw, C., Tourgeman, I., & Lickliter, R. (2008). Stimulus contingency and the malleability of species-typical auditory preferences. International Conference on Infant Studies, Vancouver, Canada.

Jaime, M., & Lickliter, R. (2008). Exploring the emergence of intersubjectivity in an avian neonate: The development of gaze following behavior. International Conference on Infant Studies, Vancouver, Canada.

Bahrack, L., Lickliter, R., Molina, M., & Castellanos, I. (2008). Tempo discrimination in infants: Roles of redundancy, task difficulty, and expertise. International Conference on Infant Studies, Vancouver, Canada.

Harshaw, C., & Lickliter, R. (2008). Temporal contiguity and the perception of contingency in Northern bobwhite neonates. Comparative Cognition Conference, Melbourne, FL.

- Harshaw, C., & Lickliter, R. (2008). Prenatal experience and the canalization of auditory preferences in bobwhite quail hatchlings. Comparative Cognition Conference, Melbourne, FL.
- Schneider, S.M., & Lickliter, R. (2007). A quantitative analysis of choice in the quail neonate: Exploring the origins of sensitivity to consequences. International Society for Developmental Psychobiology, San Diego, CA
- Jaime, M., Bahrick, L.E., & Lickliter, R. (2007). Audiovisual temporal synchrony facilitates prenatal perceptual learning in bobwhite quail embryos. International Society for Developmental Psychobiology, San Diego, CA.
- Pham-Escobar, B., Vaillant, J., & Lickliter, R. (2007). Modified heart rate interferes with perceptual learning in bobwhite quail embryos. International Society for Developmental Psychobiology, San Diego, CA.
- Lopez, J. P., Jaime, M., & Lickliter, R. (2007). Bobwhite quail neonates track human eye gaze to direct their avoidance behavior. International Society for Developmental Psychobiology, San Diego, CA.
- Lickliter, R. (2007). Thinking about development: The insights of Esther Thelen. Cognitive Development Society, Santa Fe, NM.
- Harshaw, C., & Lickliter, R. (2007). Contingency and the ecology of perceptual development in precocial avian species. International Ethological Conference, Halifax, Nova Scotia
- Harshaw, C., Tourgeman, I., & Lickliter, R. (2007). Stimulus contingency and the malleability of species-specific auditory preferences. Animal Behavior Society, Burlington, VT.
- Lickliter, R. (2007). Developmental dynamics: Insights from behavioral embryology. Society for Research in Child Development, Boston, MA.
- Bahrick, L.E., & Lickliter, R. (2006). South Florida Research Consortium: The development of attention, perception, learning, and memory. National Science Foundation Science of Learning Centers meeting, Washington, DC.
- Markham, R., & Lickliter, R. (2006). Prenatally elevated physiological arousal interferes with perceptual learning in bobwhite quail. Society for Neuroscience, Atlanta, GA.
- Markham, R., & Lickliter, R. (2006). Prenatal auditory stimulation modifies *Zenk* protein expression in telencephalic regions in bobwhite quail chicks. International Society for Developmental Psychobiology, Atlanta, GA.
- Tourgeman, I., Harshaw, C., & Lickliter, R. (2006). Effects of stimulus contingency on malleability of species-specific auditory preferences. International Society for Developmental Psychobiology, Atlanta, GA.

- Pham-Escobar, B., & Lickliter, R. (2006). Arousal influences perceptual learning in bobwhite quail embryos. International Society for Developmental Psychobiology, Atlanta, GA.
- Harshaw, C., Bahrick, L.E., & Lickliter, R. (2006). Effects of intersensory redundancy and stimulus contingency on early perceptual learning. International Society for Developmental Psychobiology, Atlanta, GA
- Frank, M., Harshaw, C., & Lickliter, R. (2006). The influence of enriched rearing on freezing and activity levels in bobwhite quail chicks. International Society for Developmental Psychobiology, Atlanta, GA.
- Castellanos, I., Vaillant-Molina, M., Lickliter, R., & Bahrick, L.E. (2006). Intersensory redundancy educates infants' attention to a model information in unimodal stimulation. International Society for Developmental Psychobiology, Atlanta, GA.
- Schneider, S.M., & Lickliter, R. (2006). Operant generalization in Northern bobwhite neonates. International Society for Developmental Psychobiology, Atlanta, GA.
- Jaime, M., Bahrick, L.E., & Lickliter, R. (2006). Exploring the temporal boundaries of intersensory redundancy during prenatal development. International Conference on Infancy Studies, Kyoto, Japan.
- Vaillant-Molina, M., Newell, L., Castellanos, I., Bahrick, L.E., & Lickliter, R. (2006). Intersensory redundancy impairs face perception in early development. International Conference on Infancy Studies, Kyoto, Japan.
- Schneider, S., & Lickliter, R. (2006). Imprinting and operants: Maternal calls as reinforcers. Association of Behavior Analysis, Atlanta, GA.
- Harshaw, C., & Lickliter, R. (2006). Imprinting and operants: The power of perinatal contingency. Association of Behavior Analysis, Atlanta, GA.
- Markham, R., & Lickliter, R. (2006). Sensational experience: prenatal sound affects postnatal sight in precocial birds. East Coast Nerve Net meeting, Marine Biological Laboratory, Woods Hole, MA.
- Schneider, S., & Lickliter, R. (2006). Generalization in early development: Evidence from bobwhite quail. International Conference on Comparative Cognition, Melbourne, FL.
- Harshaw, C., & Lickliter, R. (2006). Influence of stimulus contingency on auditory preferences in bobwhite quail neonates. International Conference on Comparative Cognition, Melbourne, FL.
- Harshaw, C., Schneider, S., & Lickliter, R. (2006). Inter-call-interval and auditory preferences in bobwhite quail neonates. International Conference on Comparative Cognition,

Melbourne, FL.

- Markham, R., & Lickliter, R. (2005). Effects of prenatally augmented auditory stimulation on postnatal visually-directed filial behavior in bobwhite quail. Society for Neuroscience, Washington, DC.
- Schneider, S., & Lickliter, R. (2005). What's special about mother's call: Pitch and reinforcer value in northern bobwhite neonates. International Society for Developmental Psychobiology, Washington, DC.
- Jaime, M., Lickliter, R., & Bahrick, L.E. (2005). The role of temporal synchrony in the salience of intersensory redundancy during prenatal development. International Society for Developmental Psychobiology, Washington, DC.
- Harshaw, C., & Lickliter, R. (2005). Stimulus contingency and perinatal learning in bobwhite quail chicks. International Society for Developmental Psychobiology, Washington, DC.
- Bahrick, L.E., Lickliter, R., Shuman, M., Batista, L., & Newell, L. (2005). The development of infant voice discrimination: From unimodal auditory to bimodal audiovisual stimulation. International Society for Developmental Psychobiology, Washington, DC.
- Lickliter, R. (2005). Developmental systems theory: Accounting for stability and variability across different time scales. Connectionist and Dynamic Systems Approaches to Development Conference, Iowa City, IA.
- Lickliter, R. (2005). Prenatal contributions to the development of intersensory perception. International Workshop on Processing of Multimodal Information in Animals and Humans, Vannes, France.
- Schneider, S.M., & Lickliter, R. (2005). Relative reinforcer value of a species-typical call compared to an artificial sound for Northern bobwhite hatchlings. Association of Behavior Analysis, Chicago.
- Lickliter, R., & Bahrick, L.E. (2005). Integrating research on unimodal and multimodal perceptual development: The intersensory redundancy hypothesis. Society for Research in Child Development, Atlanta, GA.
- Schneider, S.M., & Lickliter, R. (2005). Auditory generalization gradients in bobwhite quail chicks. International Conference on Comparative Cognition, Melbourne, FL.
- Markham, R.G., Lickliter, R., & Bahrick, L.E. (2005). Intersensory redundancy guides selective attention in bobwhite quail embryos. International Conference on Comparative Cognition, Melbourne, FL.
- Jaime, M., & Lickliter, R. (2005). The role of prenatal temporal synchrony and spatial collocation in bobwhite quail chicks' responsiveness to the spatial contiguity of maternal cues. International Conference on Comparative Cognition, Melbourne, FL.

- Harshaw, C., & Lickliter, R. (2005). Effects of stimulus contingency on perinatal learning in bobwhite quail chicks. International Conference on Comparative Cognition, Melbourne, FL.
- Lickliter, R. (2004). Encountering the world: Prenatal sensory experience guides and constrains perceptual learning and development. *Presidential Address*, International Society for Developmental Psychobiology, Aix, France.
- Bahrack, L.E., & Lickliter, R. (2004). The development of infants' sensitivity to the orientation of object motion: Predictions of the intersensory redundancy hypothesis. International Society for Developmental Psychobiology, Aix, France.
- Bahrack, L.E., Lickliter, R., Batista, L., & Vaillant, M. (2004). The development of infants' discrimination of tempo in unimodal and bimodal stimulation. International Society for Developmental Psychobiology, Aix, France.
- Lickliter, R., Carlsen, R., & Markham, R. (2004). Amount of prenatal visual experience affects neural plasticity and postnatal visual responsiveness in bobwhite quail chicks. International Society for Developmental Psychobiology, Aix, France.
- Bahrack, L.E., Lickliter, R., Vaillant, M., & Shuman, M. (2004). The development of face perception in dynamic, multimodal events: Predictions from the intersensory redundancy hypothesis. International Multisensory Research Forum, Barcelona, Spain.
- Lickliter, R., Bahrack, L.E., & Markham, R. (2004). Intersensory redundancy can educate selective attention during prenatal development. International Conference on Infancy Studies, Chicago, IL
- Toth, G., Markham, R., & Lickliter, R. (2004). Effects of elevated prenatal arousal on perceptual learning in bobwhite quail embryos. International Conference on Infancy Studies, Chicago, IL
- Bahrack, L.E., Lickliter, R., Vaillant, M., & Shuman, M. (2004). Infant discrimination of faces in the context of dynamic multimodal events: Predictions from the intersensory hypothesis. International Conference on Infancy Studies, Chicago, IL
- Lickliter, R. (2004). Intersensory redundancy educates selective attention in precocial animal infants during prenatal development. Winter Conference on Current Issues in Developmental Psychobiology, St. Croix.
- Lickliter, R., Bahrack, L.E., & Markham, R. (2003). Intersensory redundancy educates attention to amodal information during prenatal development. International Society for Developmental Psychobiology, New Orleans, LA.

- Jaime, M. & Lickliter, R. (2003). Prenatal exposure to temporal synchrony affects postnatal responsiveness to spatial contiguity in bobwhite quail chicks. International Society for Developmental Psychobiology, New Orleans, LA.
- Bahrnick, L.E., Lickliter, R., Shuman, M., & Batista, L. (2003). Infant discrimination of voices: Predictions from the intersensory redundancy hypothesis. Society for Research in Child Development, Tampa, FL.
- Reynolds, G.D., & Lickliter, R. (2002). Prenatal sensory stimulation influences postnatal behavioral arousal and perceptual responsiveness in bobwhite quail chicks. International Society for Developmental Psychobiology, Orlando, FL.
- Honeycutt, H., & Lickliter, R. (2002). The influence of enhanced tactile and vestibular stimulation on subsequent auditory and visual responsiveness in bobwhite quail. International Society for Developmental Psychobiology, Orlando, FL.
- Lickliter, R. (2002). Experience and the developing brain: Intersensory redundancy guides early perceptual development. Jean Piaget Society, Philadelphia, PA
- Lickliter, R. & Bahrnick, L.E. (2002). Intersensory redundancy facilitates perceptual discrimination, learning, and memory in infancy. International Multisensory Research Forum, Geneva, Switzerland.
- Reynolds, G.D., Honeycutt, H., & Lickliter, R. (2002). Effects of redundant and non-redundant bimodal stimulation on heart rate response in bobwhite quail embryos. International Conference on Infancy Studies, Toronto.
- Lickliter, R., Bahrnick, L.E., & Honeycutt, H. (2002). Intersensory redundancy enhances memory in bobwhite quail embryos. International Conference on Infancy Studies, Toronto.
- Bahrnick, R., Lickliter, R., & Flom, R. (2002). Intersensory redundancy is most effective when skills are first learned. International Conference on Infancy Studies, Toronto.
- Strunk, P. & Lickliter, R. (2002). Effects of auditory stimulation in low and typical lighting conditions on behavioral organization in preterm infants. International Conference on Infancy Studies, Toronto.
- Lickliter, R. & Bahrnick, L.E. (2002). The origins of multisensory responsiveness. Winter Conference on Current Issues in Developmental Psychobiology, Aruba.
- Reynolds, G.D., & Lickliter, R. (2001). Effects of intersensory redundancy on physiological arousal in bobwhite quail embryos. International Society for Developmental Psychobiology, San Diego, CA.
- Honeycutt, H. & Lickliter, R. (2001). Social experience facilitates species-specific visual discrimination in bobwhite quail chicks. International Society for Developmental

Psychobiology, San Diego, CA.

Lickliter, R. (2001). Structured organisms and structured environments: Determinants of prenatal perceptual learning. Association of Behavior Analysis, New Orleans, LA.

Lickliter, R., Honeycutt, H. & Bahrack, L.E. (2001). Intersensory redundancy facilitates prenatal auditory learning in bobwhite quail chicks. Society for Research in Child Development, Minneapolis, MN.

Bahrack, L.E., & Lickliter, R. (2001). Increasing specificity in intermodal learning: Infant sensitivity to the spatial congruity of audio-visual events. Society for Research in Child Development, Minneapolis, MN.

Bahrack, L.E., Lickliter, R., & Flom, R. (2000). Intersensory redundancy: Infants' detection of unimodal properties of events. International Society for Developmental Psychobiology, New Orleans.

Honeycutt, H. & Lickliter, R. (2000). Prenatal sensory experience and postnatal perceptual preferences: The patterns that connect. International Society for Developmental Psychobiology, New Orleans.

Reynolds, G. & Lickliter, R. (2000). Effects of prenatal sensory stimulation on behavioral arousal in bobwhite quail embryos. International Society for Developmental Psychobiology, New Orleans.

Lickliter, R. (2000) Perinatal sensory experience: What are the issues? Developmental Interventions in Neonatal Care, New Orleans, LA

Lickliter, R. (2000). Prenatal sensory experience and postnatal intersensory development. Multisensory Research Conference, Tarrytown, NY.

Bahrack, L.E., Lickliter, R. & Flom, R. (2000). Intersensory redundancy guides perceptual learning: Discrimination of tempo in 3-month-old infants. Multisensory Research Conference, Tarrytown, NY.

Lickliter, R. & Bahrack, L.E. (2000). Reduction of multimodal sensory stimulation following hatching alters intramodal and intermodal perceptual responsiveness of bobwhite quail chicks. International Conference on Infancy Studies, Brighton, England.

Daleo, L., Lickliter, R., & Cooper, R.P. (2000). Relations between adolescent motherhood, caregiving experience, and perceptual response to infant cries. Eastern Psychological Association, Baltimore, MD.

Lickliter, R. (2000). Sensory system interference: The broad view. Conference on the Physical and Developmental Environment of the High-Risk Infant, Clearwater, FL.

- Lickliter, R., Bahrick, L., & Flom, R. (1999). Infant attention and memory for unimodally and bimodally specified object motion. International Society for Developmental Psychobiology, Miami, FL.
- Bahrick, L. & Lickliter, R. (1999). Effects of unimodal vs. multimodal sensory stimulation on attentional selectivity in infancy. International Society for Developmental Psychobiology, Miami, FL
- Columbus, R.F., & Lickliter, R. (1999). Perinatal visual experience and auditory learning in bobwhite quail chicks. International Society for Developmental Psychobiology, Miami.
- Honeycutt, H. & Lickliter, R. (1999). Effects of unimodal vs. bimodal stimulation on prenatal auditory learning in bobwhite quail embryos. International Society for Developmental Psychobiology, Miami, FL
- Lickliter, R. (1999). Sensory development: Are neonatal intensive units interfering? Colorado Consortium of Intensive Care Nurseries, Denver, CO.
- Lickliter, R. & Bahrick, L. (1999). The salience of multimodal stimulation in early development: Implications for experimental design. Society for Research in Child Development, Albuquerque, NM
- Lickliter, R. (1999). Supporting sensory development. Conference on the Physical and Developmental Environment of the High-Risk Infant, Clearwater, FL.
- Lickliter, R. (1999). Functional distinction between unimodal and multimodal stimulation during perinatal development. Winter Conference on Current Issues in Developmental Psychobiology, Grenada, British West Indies.
- Lickliter, R. (1999). Early perinatal sensory experience: Effects on behavioral organization. Developmental Interventions in Neonatal Care, Chicago, IL.
- Columbus, R.F. & Lickliter, R. (1998). Postnatal social experience facilitates species-typical maternal preferences in bobwhite quail chicks. American Psychological Society, Washington, D.C.
- Lickliter, R. & Bahrick, L.E. (1998). Effects of augmented unimodal sensory experience on bobwhite quail chicks' preference for spatially co-located maternal stimulation. International Society for Developmental Psychobiology, Orleans, France.
- Bahrick, L.E., & Lickliter, R. (1998). Spatial incongruity interferes with intermodal learning in three-month-old infants. International Society for Developmental Psychobiology, Orleans, France.

- Carlsen, R. & Lickliter, R. (1998). Effects of augmented prenatal vestibular stimulation on postnatal perceptual organization of bobwhite quail chicks. Eastern Psychological Association, Boston, MA.
- Columbus, R.F. & Lickliter, R. (1998). Early experience and auditory learning: The role of sensory stimulation in bobwhite quail chicks' preferences for maternal cues. International Conference on Infant Studies, Atlanta, GA.
- Bahrack, L. & Lickliter, R. (1998). Intersensory redundancy guides infant attention. International Conference on Infant Studies, Atlanta, GA.
- Lewkowicz, D.J. & Lickliter, R. (1998). Detection of intermodal rate and synchrony relations in 6- and 8-month-old infants. International Conference on Infant Studies, Atlanta, GA.

Colloquia and Invited Addresses

Center for the Ecological Study of Perception and Action, University of Connecticut
 Department of Psychology, New York University
 Center for Developmental Science, University of North Carolina, Chapel Hill, NC (3)
 Otterbein College, Westerville, OH (Science Lecture Series)
 Department of Psychology, Denison University, Granville, OH
 Department of Pediatrics, University of Miami Medical School, Miami, FL (2)
 Department of Psychology, Florida International University, Miami, FL
 Department of Pediatrics, University of Colorado Health Sciences Center, Denver, CO
 Department of Psychology, University of Miami, Miami, FL
 Department of Psychology, Florida Atlantic University, Boca Raton, FL
 Department of Pediatrics, New Hanover Regional Medical Center, Wilmington, NC
 Department of Psychology, Indiana University, Bloomington, IN
 Department of Human Development, University of Kansas, Lawrence, KA
 Department of Psychology, Concordia University, Montreal, Canada
 Department of Psychology, Rutgers University, New Brunswick, NJ
 Graduate Center of the City University of New York
 Department of Psychology, Pitzer College, Claremont Graduate School, Claremont, CA
 Division of Research, National Zoological Park, Washington, D.C.
 Department of Biology, Virginia Tech, Blacksburg, VA
 Department of Biology, University of Groningen, The Netherlands
 Division of Biological Sciences, University of California, Davis, CA
 Department of Psychology, University of North Carolina, Greensboro, NC

Teaching Specializations

Undergraduate:

Biopsychology
 Developmental Psychology
 Comparative Psychology
 Behavioral Neuroscience
 Psychology of Consciousness

Graduate

Developmental Theory
 Biological Bases of Behavior
 Developmental Psychobiology
 Evolutionary Psychology
 History and Systems of Psychology

Post-Doctoral Supervision

Susan Schneider, Ph.D. (2003- present)

Aline Bertin, Ph.D. (2007- present)

Graduate Students

Chair, Doctoral Dissertation

Anna Marshall-Baker, *The effect of a visual stimulus on behavioral state and visual responsiveness in preterm human infants*. Ph.D., Virginia Tech (September, 1991). Currently Associate Professor, College of Human Resources, University of North Carolina, Greensboro.

Thomas McBride, *The role of stimulus matching in intersensory development in precocial birds*. Ph.D., Virginia Tech (April, 1994). Currently Neuropsychologist, Department of Clinical Neuroscience, Children's Specialized Hospital, New Jersey.

Michael Casey, *The role of prenatal sensory experience in the development of turning bias and spatial orientation in bobwhite quail*. Ph.D., Virginia Tech (May, 1995). Currently Associate Professor, Department of Psychology, College of Wooster.

Merry Sleigh, *The effects of differential amounts of specific prenatal auditory stimulation on postnatal perceptual responsiveness in bobwhite quail*. Ph.D., Virginia Tech (January, 1996). Currently Associate Professor, Department of Psychology, Winthrop University, South Carolina.

Rebecca (Columbus) Foushee, *Auditory-visual interactions: The effects of timing of visual experience on auditory learning in bobwhite quail chicks*. Ph.D., Virginia Tech (October, 1998, winner of APA Dissertation Award). Currently Associate Professor, Department of Psychology, Fontbonne University, St. Louis.

Lisa Daleo, *Relations among adolescent motherhood, caregiving experience, and perceptual and caregiving responses to infant cries*. Ph.D., Virginia Tech (December, 1998).

Robert Carlsen, *Neural plasticity and perceptual responsiveness in bobwhite quail chicks*. Ph.D., Virginia Tech (September, 1999). Currently Associate Professor, Department of Psychology, Averett College.

Pia Strunk, *The effects of augmented auditory stimulation on behavioral state in preterm infants*. Ph.D., Virginia Tech (December, 2001).

Hunter Honeycutt, *The influence of enhanced tactile and vestibular sensory stimulation on subsequent auditory and visual responsiveness: A matter of timing*. Ph.D., Virginia Tech (May 2002). Currently Assistant Professor, Department of Psychology, Bridgewater College.

Gregory Reynolds, *Effects of prenatal sensory-evoked arousal on postnatal behavior and perceptual learning in bobwhite quail*. Ph.D., Virginia Tech (May 2002). Currently Assistant Professor, Department of Psychology, University of Tennessee, Knoxville.

Rebecca Markham, *Augmented prenatal auditory stimulation and visual system development: Timing and intersensory organization*. Florida International University (June, 2006). Currently Post-Doctoral Research Associate, Department of Psychology, University of Texas, Austin.

Mark Jaime, *The role of temporal synchrony in the facilitation of perceptual learning during prenatal development*. Florida International University (December, 2007). Currently Post-Doctoral Research Associate, Department of Psychology, University of Miami.

Chris Harshaw, *Contingency, contiguity, and the development of auditory preferences in bobwhite quail chicks*. Florida International University (current, expected completion 2009).

Chair, Master's Thesis

Pratima Virkar, *Auditory and visual determinants of maternal preference in bobwhite quail neonates*. M.S., Virginia Tech (December, 1988).

Julia Stoumbos, *Effects of altered prenatal auditory experience on bobwhite quail chicks*. M.S., Virginia Tech (January, 1990).

Heather Banker, *The influence of early and delayed visual experience on perceptual organization in bobwhite quail neonates*. M.S., Virginia Tech (November, 1991).

Michael Casey, *Social context affects behavioral responsiveness to maternal alarm calls in bobwhite quail chicks*. M.S., Virginia Tech (November, 1992).

Merry Sleigh, *The effects of augmented prenatal visual stimulation on postnatal perceptual responsiveness in bobwhite quail chicks*. M.S., Virginia Tech (August, 1994).

Rebecca (Columbus) Foushee, *The role of modified social experience on intersensory development in bobwhite quail chicks*. M.S., Virginia Tech (September, 1996).

Hunter Honeycutt, *Prenatal perceptual experience and postnatal perceptual preferences: evidence for attentional-bias in perceptual learning*. M.S., Virginia Tech (Dec. 2000).

Matthew McCusker, *The effects of social experience on snapping intensity in Equus caballus foals*. M.S., Virginia Tech (March, 2003).

Mark Jaime, *Prenatal exposure to temporal synchrony affects postnatal responsiveness to spatial contiguity in bobwhite quail chicks*. M.S., Florida International University (March, 2005).

Chris Harshaw, *The effects of stimulus contingency on perinatal auditory learning in bobwhite quail chicks*. M.S., Florida International University (November, 2005).

Jimena Vaillant, Florida International University (current, expected completion, 2009).

Chair, Undergraduate Honors Thesis

Gabriella Toth, *Effects of elevated prenatal arousal on perceptual learning in bobwhite quail embryos*. Florida International University (April, 2004).

Juan Pablo Lopez, *Bobwhite quail chicks can use human gaze to direct their avoidance behavior*. Florida International University (April, 2008).

Kathleen Crum, current, Florida International University.