

Curriculum Vitae

Nathan A. Fox
Human Development and Quantitative Methodology
3304 Benjamin Building
College Park, MD, 20742
[*fox@umd.edu*](mailto:fox@umd.edu)
[*cdl.umd.edu*](http://cdl.umd.edu)

Academic Appointments at UMD

- 2008- Distinguished University Professor, University of Maryland, College Park.
- 2011- Distinguished University Professor, University of Maryland College Park, Program in Neuroscience and Cognitive Science
- 2019- Visiting Scholar, Teacher's College, Columbia University, Department of Human Development
- 1989- Professor, Institute for Child Study/Department of Human Development, University of Maryland, College Park.
- 1989- Adjunct Professor, Department of Psychology, University of Maryland, College Park.
- 1986-89 Associate Professor, Institute for Child Study/Department of Human Development, University of Maryland, College Park.
- 1982-86 Assistant Professor, Institute for Child Study/Department of Human Development, University of Maryland.

Administrative Appointments at UMD

- 2012-2016 Interim Department Chair, Department of Human Development and Quantitative Methodology, University of Maryland, College Park.

Other Employment

- 2002- 2012 Sackler Professor by special appointment, Department of Psychology, Tel Aviv University, Tel Aviv, Israel.
- 1981-82 Visiting Lecturer in Psychology, New School for Social Research.
- 1978-83 Adjunct Assistant Professor of Psychology, Department of Psychology, New York University.
- 1978-82 Assistant Professor, Clinical Pediatric Psychology, College of Physicians and Surgeons, Columbia University.

Educational Background

- Ph.D. Psychology and Social Relations, Harvard University, Cambridge, Massachusetts, 1975.
- B.A. With Honors in Political Science, Williams College, Williamstown, Massachusetts, 1970.
- 1976-77 Postdoctoral Fellow in Cross-Cultural Child Development, Harvard University.

Awards, Honors and Recognition

Research Fellowships, Prizes and Awards

Fellow, American Association for the Advancement of Science
Distinguished Scientific Investigator, NARSAD
NICHD MERIT Award
Maureen Evans Award, Joint Council on International Children's Services
Fellow, American Academy of Arts and Sciences
Fellow, American Psychological Association (Division 7)
Distinguished Scientific Contributions Award, Society for Research in Child Development, 2015
Distinguished Mentor Award, American Psychological Association (Division 7), 2016
G. Stanley Hall Award for Lifelong Achievement in Developmental Science, 2017
Ruane Prize for Outstanding Achievement in Child and Adolescent Psychiatric Research, 2017
Tisch Visiting Professor, Teachers College, Columbia University 2017-18

Teaching Awards

Distinguished Visiting Scholar, Department of Psychology, University of Utah., 1987

Research, Scholarly and Creative Activities

Books Authored

Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2014). *Romania's Abandoned Children: Deprivation, Brain Development and the Struggle for Recovery*. Cambridge, MA: Harvard University Press. Original Edition.

Books Edited

Fox, N.A. & Davidson, R.J. (Eds.). (1984). *The Psychobiology of Affective Development*. Hillsdale, NJ: Erlbaum Press.

Field, T. & Fox, N.A. (Eds.). (1985). *Social Perception in Infants*. Norwood, NJ: Ablex Press.

Fox, N.A. & Fein, G. (Eds.). (1990). *Infant Day Care*. Norwood, NJ: Ablex Publishers.

Leavitt, L.A. & Fox, N.A. (Eds.). (1993). *The Psychological Effects of War and Violence on Children*. Hillsdale, NJ: Erlbaum Press.

Marshall, P.J. & Fox, N.A. (Eds.). (2005). *The Development of Social Engagement*. New York: Oxford University Press.

Burack, J.A., Enns, J.T., & Fox, N.A. (Eds.). (2012). *Cognitive Neuroscience, Development, and Psychopathology*. New York: Oxford University Press.

Barrett, K., Fox, N.A., Morgan, G. Fidler, D., & Daunhauer L. (Eds.). (2013) *Handbook of Self-Regulatory Processes in Development*. New York: Guilford Press.

Perez-Edgar, K., & Fox, N.A. (Eds.). (2018). *Behavioral Inhibition: Integrating Theory, Research, and Clinical Perspectives*. Switzerland: Springer.

Book Chapters

- Kennedy, J. & Fox, N.A. (1977). Pictures to see and pictures to touch. In D. Perkins & B. Leonard (Eds.), *The Arts and Cognition* (pp. 118-135). Baltimore, MD: Johns Hopkins University Press.
- Fox, N.A. (1980). Assessment of the mother-infant interaction: A research design for clinical evaluation and intervention. In S. Harel (Ed.), *Infants at Risk* (pp. 80-84). The Netherlands: Excerpta Medica.
- Fox, N.A. & Lewis, M. (1980). Maturation and experience in preterm development. In J. Gallagher (Ed.), *New Directions for Exceptional Children* (pp. 37-50). San Francisco, CA: Jossey-Bass.
- Lewis, M. & Fox, N.A. (1980). Predicting cognitive development from assessments in infancy. In B. Camp (Ed.), *Advances in Behavioral Pediatrics: Vol. I.* (pp. 53-68). New Haven, CT: JAI Press.
- Fox, N.A. & Davidson, R.J. (1984). Hemispheric substrates of affect: A developmental model. In N.A. Fox & R.J. Davidson (Eds.), *The Psychobiology of Affective Development* (pp. 353-382). Hillsdale, NJ: Erlbaum Press.
- Fox, N.A. (1985). Behavioral and autonomic antecedents of attachment in high risk infants. In M. Reite & T. Field (Eds.), *The Psychobiology of Attachment* (pp. 389-414). New York, NY: Academic Press.
- Fox, N.A. (1985). Sweet-sour/interest-disgust: The role of approach withdrawal in the development of emotions. In T. Field & N.A. Fox (Eds.), *Social Perception in Infants* (pp. 53-72). Norwood, NJ: Ablex Press.
- Fox, N.A. & Feiring, C. (1985). High risk birth: Effects of illness and prematurity on the mother-infant interaction and the mother's support system. In S. Harel & N. Anastasiow (Eds.), *Children and Families at Risk* (pp. 19-28). Baltimore, MD: Paul Brown.
- Fox, N.A. & Davidson, R.J. (1986). Psychophysiological measures of emotion: New directions in developmental research. In C.E. Izard & P. Read (Eds.), *Measuring Emotions in Infants and Children, Vol. II.* (pp. 13-47). New York, NY: Cambridge University Press.
- Lewis, M. & Fox, N.A. (1986). Infant assessment: Challenges for the future. In M. Lewis (Ed.), *Prenatal and Perinatal Factors Relevant to Learning Disability* (pp. 307-322). Champaign, IL: University of Illinois Press.
- Porges, S.W. & Fox, N.A. (1986). Developmental psychophysiology. In M.G.H. Coles, E. Donchin & S.W. Porges (Eds.), *Psychophysiology: Systems, Processes, & Applications.* (pp. 611-625). New York, NY: Guilford Press.

- Davidson, R.J. & Fox, N.A. (1988). Cerebral asymmetry and emotion: Developmental and individual differences. In S. Segalowitz & D. Molfese (Eds.), *Developmental Implications of Brain Lateralization* (pp. 191-206). New York: Guilford Press.
- Fox, N.A. (1988). The effects of prematurity and postnatal illness on the mother-infant interaction: A study of a high-risk dyad. In J. Anthony & C. Chiland (Eds.), *The Child in His Family: Volume 8*. (pp. 211-222). New York: John Wiley & Sons.
- Fox, N.A. & Stifter, C.A. (1989). Biological and behavioral differences in infant reactivity and regulation. In G.A. Kohnstamm, J. Bates & M.K. Rothbart (Eds.), *Handbook of Temperament in Childhood* (pp. 169-183). New York: Wiley. (pp. 169-183).
- Fox, N.A. (1989). Heart rate variability and behavioral reactivity: Individual differences in autonomic patterning and their relation to infant and child temperament. In J.S. Reznick (Ed.), *Perspectives on Behavioral Inhibition* (pp. 177-196). Chicago, IL: University of Chicago Press.
- Fox, N.A. (1989). Infant response to frustrating and mildly stressful events: A positive look at anger in the first year. In M. Lewis & J. Worobey (Eds.), *New Directions for Child Development: Infant Stress and Coping* (pp. 47-64). San Francisco, CA: Jossey-Bass.
- Fein, G. & Fox, N.A. (1990). Infant Day Care: A special issue. In N.A. Fox & G. Fein (Eds.), *Infant Day Care: The Current Debate* (pp. v-xv). Norwood, NJ: Ablex.
- Fox, N.A. & Bell, M.A. (1990). Electrophysiological indices of frontal lobe development: Relations to cognitive and affective behavior in human infants over the first year of live. In A. Diamond (Ed.), *The Developmental and Neural Bases of Higher Cognitive Functions* (pp. 677-698). New York: New York Academy of Sciences.
- Fox, N.A. (1991). Frontal brain asymmetry and vulnerability to stress: Individual differences in infant temperament. In T.M. Field, P.M. McCabe & N. Schneiderman (Eds.), *Stress and Coping in Infancy and Childhood* (pp. 83-100). Hillsdale, NJ: Erlbaum.
- Fox, N.A. & Davidson, R.J. (1991). Hemispheric specialization and attachment behaviors: Developmental processes and individual differences in separation protest. In J.L. Gewirtz & W.M. Kurtines (Eds.), *Intersection Points in Attachment Research* (pp. 147-164). Hillsdale, NJ: Erlbaum Associates.
- Fox, N.A. (1992). The role of temperament and attachment in normal and high-risk infants. In C. Greenbaum & J. Auerbach (Eds.), *Longitudinal Studies of Children at Psychological Risk: Cross-National Perspectives* (pp. 109-132). Norwood, NJ: Ablex.
- Fox, N.A. (1992). The role of individual differences in infant personality in the formation of the attachment relationship. In L. Feagans, L. Sussman, & W.J. Ray (Eds.), *Emotions and Health: A Two-Way Street* (pp. 31-52). Hillsdale, NJ: Erlbaum.

- Fox, N.A. & Bell, M.A. (1993). Frontal function in cognitive and emotional behaviors during infancy: Effects of maturation and experience. In B. de Boysson-Bardies, S. de Schonen, P. Juszyk, P. MacNeilage & J. Morton (Eds.), *Developmental neurocognition: Speech and face processing in the first year of life* (pp. 199-210). The Netherlands: Kluwer Academic Publishers B.V.
- Fox, N.A. & Calkins, S.D. (1993). Pathways to aggression and social withdrawal: Interactions between temperament, attachment and regulation. In K.H. Rubin (Ed.), *Social Withdrawal, Inhibition and Shyness in Childhood* (pp. 81-100). Chicago, IL: University of Chicago Press.
- Fox, N.A. & Calkins, S.D. (1993). Multiple measure approaches to the study of infant emotion. In M. Lewis & J. Haviland (Eds.), *Handbook of Emotions* (pp. 167-184). New York: Guilford Press.
- Bell, M.A. & Fox, N.A. (1994). Brain development over the first year of life: Relations between EEG frequency and coherence and cognitive and affective behaviors. In G. Dawson & K. Fischer (Eds.), *Human Behavior and the Developing Brain* (pp. 314-345). New York: Guilford.
- Calkins, S.D. & Fox, N.A. (1994). Individual differences in the biology of infant temperament. In J. E. Bates & T.D. Wachs (Eds.) *Temperament: Individual differences at the interface of biology and behavior* (pp. 199-218). Washington, DC: APA Press.
- Schmidt, L.A., Shahinfar, A., & Fox, N.A. (1994). Individual differences in temperament. In V.S. Ramachandran (Ed.), *Encyclopedia of Human Behavior. Volume 2* (pp. 621-629). San Diego, CA: Academic Press.
- Fox, N.A., Sobel, A.A., Calkins, S. D., & Cole, P. (1996). Inhibited children talk about themselves: Self-reflection on personality development and change in seven year olds. In M. Lewis & M. Sullivan (Eds), *Emotional development in atypical children* (pp. 131-148). Hillsdale, NJ: Lawrence Erlbaum Press.
- Harman, C. & Fox, N.A. (1997). Frontal and attentional mechanisms regulating distress experience and expression during infancy. In N. Krasnegor, R. Lyon & P. Goldman-Rakic (Eds.), *Development of the Prefrontal Cortex: Evolution, Neurobiology, and Behavior* (pp. 191-210). Paul H. Brookes Publishing Co.
- Shahinfar, A. & Fox, N.A. (1997). The effects of trauma on children: Conceptual and methodological issues. In D. Cicchetti & S.L. Toth (Eds.), *Developmental Perspectives on Trauma: Theory, research, and intervention: Rochester Symposium on Developmental Psychopathology, Volume 8.* (pp. 115-139). New York: University of Rochester Press.
- Schmidt, L.A. & Fox, N.A. (1998). Electrophysiological studies I: Quantitative electroencephalography. In C.E. Coffey & R.A. Brumback (Eds.), *Textbook of Pediatric*

Neuropsychiatry: Section II. Neuropsychiatric assessment of the child and adolescent (pp. 315-329). Washington, DC: American Psychiatric Press.

- Schmidt, L.A. and Fox, N.A. (1998). The Development and Outcomes of Childhood Shyness: A multiple psychophysiological measure approach. *Annals of Child Development, 13.* (pp.1-20). Jessica Kingsley Publishers.
- Schmidt, L.A. & Fox, N.A. (1999). Conceptual, Biological and Behavioral Distinctions among different Categories of Shy Children. In L.A. Schmidt & J. Schulkin (Eds). *Extreme fear, shyness and social phobia: Origins, biological mechanisms, and clinical outcomes* (pp. 47-66). New York: Oxford Press.
- Fox, N.A. & Card, J.A. (1999). Psychophysiological measures of security of attachment and attachment behaviors. In J. Cassidy & P.R. Shaver (Eds). *Handbook of attachment: Theory and Research* (pp. 226-248). New York; Guilford.
- Fox, N.A., Schmidt, L.A., Henderson, H., & Marshall, P. (2000). Developmental psychophysiology: Conceptual and methodological issues. In J.T. Cacioppo, L.G. Tassinary, & G.C. Berntson (Eds.), *Handbook of Psychophysiology* (pp. 665-686). New York: Cambridge University Press.
- Marshall, P.J. & Fox, N.A. (2000). Emotion regulation, depression, and hemispheric asymmetry. In S. Johnson, A. Hayes, T.M. Field, N. Schneiderman, & P.M. McCabe (Eds.), *Stress, coping, and depression* (pp. 35-50). New Jersey: Lawrence Erlbaum Associates, Inc.
- VanMeenen, K. & Fox, N.A. (2000). Separation distress/anxiety. In W.E. Craighead & C.B. Nemeroff (Eds.), *The Corsini Encyclopedia of Psychology and Behavioral Science, Third Edition* (pp. 1490-1993). New York: John Wiley & Sons, Inc.
- Fox, N.A., & Bar-Haim, Y. (2001). Conceptual gaps in the lifespan theory of attachment. In A. Goncu & E. Klein (Eds.), *Children in Play, Story, and School* (pp. 288-308). New York: The Guilford Press.
- Fox, N.A., Henderson, H.A., & Marshall, P.J. (2001). The biology of temperament: An integrative approach. In C.A. Nelson & M. Luciana (Eds). *The Handbook of Developmental Cognitive Neuroscience* (pp. 631-645). Cambridge, MA: MIT Press.
- Fox, N.A. & Polak, C.P. (2001). The possible contribution of temperament to understanding the origins and consequences of persistent and excessive crying. In R. Barr, I. St. James Roberts & M. Keefe (Eds.), *Johnson & Johnson Pediatric Round Table: New Evidence on Unexplained Early Infant Crying: It's Origins, Nature and Management.* (pp. 25-42). Johnson & Johnson pediatric institute: Division of Johnson & Johnson Consumer Companies, Inc.
- Himmelfarb Marshall, D. & Fox, N.A. (2001). Electroencephalographic assessment and human brain maturation: A window into emotional and cognitive development in infancy. In P.S.

- Zeskind & L. Singer (Eds.), *Biobehavioral assessment of the infant* (pp. 341-360). New York: The Guilford Press.
- Schmidt, L.A. & Fox, N.A. (2002). Individual Differences in childhood shyness: Origins, malleability, and developmental course. In D. Cervone & W. Mischel (Eds.), *Advances in Personality Science* (pp. 83-105). NY: Guilford Publishers.
- Schmidt, L.A. & Fox, N.A. (2002). Molecular genetics of temperamental differences in children. In J. Benjamin, R.P. Ebstein, & R.H. Belmaker (Eds.), *Molecular genetics and human personality* (pp. 245-256). Washington, DC: American Psychiatric Press.
- Fox, N.A. & Polak, C.P. (2004). The Role of Sensory Reactivity in Understanding Infant Temperament. In R. DelCarmen-Wiggins & A. Carter (Eds.), *Handbook of Infant and Toddler Mental Health Assessment* (pp. 105-122). New York: Oxford University Press.
- Fox, N.A. & Stifter, C. (2005). Emotional Development. In B. Hopkins (Ed.), *Cambridge Encyclopedia of Child Development* (pp. 234-241). Cambridge, NY: Cambridge University Press.
- Fox, N.A., Hane, A.A., & Pérez-Edgar, K. (2006). Psychophysiological methods for the study developmental psychopathology. In D. Cicchetti & D. Cohen (Eds.), *Developmental Psychopathology, Vol. II, 2nd Edition* (pp. 381-426). Hoboken, NJ: Wiley Press.
- Fox, N.A. Schmidt, L.A., Henderson, H.A., & Marshall, P. (2006). Developmental Psychophysiology: Conceptual and Methodological Issues. In J. T. Cacioppo, L.G. Tassinary, & G.G. Berntson (Eds). *Handbook of Psychophysiology, 3rd Edition* (pp. 453-481). New York, NY: Cambridge University Press.
- Kagan, J. & Fox, N.A. (2006). Biology, Culture, and Temperamental Biases. In W. Damon & R.M. Lerner (Eds.), *Handbook of Child Psychology Vol. VI, 6th Edition* (pp. 167-224). Hoboken, NJ: John Wiley & Sons.
- Martin, J.N. & Fox, N.A. (2006). Temperament. In K. McCartney & D. Phillips (Eds.), *Handbook of Early Child Development* (pp. 126-146). Malden, MA: Blackwell Publishing.
- Brenick, A., Lee-Kim, J., Killen, M., Fox, N.A., Raviv, A., & Leavitt, L. (2007). Social judgments in Israeli and Arabic children: Findings from media-based intervention projects. In D. Lemish & M. Götz (Eds.), *Children, media, and war* (pp. 287-308). Cresskill, NJ: Hampton Press.
- Hane, A.A., & Fox, N.A. (2007). A closer look at the transactional nature of early social development: The relations among early caregiving environments, temperament, and early social development and the case for phenotypic plasticity. In F. Santoianni & C. Sabatano (Eds.), *Brain Development in Learning Environments: Embodied and Perceptual Advancements* (pp. 1-15). Newcastle, UK: Cambridge Scholars Publishing.

- Henderson, H.A., & Fox, N.A. (2007). Considerations in studying emotion in infants and children. In J. Coan & J.J.B. Allen (Eds.), *The Handbook of Emotion Elicitation and Assessment* (pp. 349-360). Oxford, NY: Oxford University Press.
- Marshall, P.J., & Fox, N.A. (2007). Infant EEG and ERP in relation to social and emotional development. In M. de Haan (Ed.), *Infant EEG and Event-Related Potentials* (pp. 227-250). Psychology Press.
- Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2007). The Effects of Early Deprivation on Brain-Behavioral Development: The Bucharest Early Intervention Project. In Daniel Romer & Elaine Walker (Eds.), *Adolescent Psychopathology and the Developing Brain: Integrating Brain and Prevention Science* (pp. 197-218). New York: Oxford University Press.
- Fox, N.A., & Hane, A.A. (2008). Studying the Biology of Human Attachment. In P. Shaver & J. Cassidy (Eds.), *Handbook of Attachment, 2nd edition* (pp. 217-240). New York, NY: Guilford Press.
- Reeb, B.C., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2009). The effects of early institutionalization on social behavior and underlying neural correlates. In M. Gunnar and M. de Haan (Eds.) *Handbook of Developmental Social Neuroscience* (pp. 477-496). New York, NY: Guilford Press.
- Fox, N.A., Reeb-Sutherland, B.C. (2010). Biological moderators of infant temperament and its relation to social withdrawal. In K.H. Rubin and R.J. Coplan (Eds.) *The Development of Shyness and Social Withdrawal* (pp. 84 – 103). New York, NY: Guilford Press.
- McDermott, J.M. & Fox, N.A. (2010). Exploring response monitoring: Developmental differences and contributions to self-regulation. In R. H. Hoyle (Ed.), *Handbook of Personality and Self-Regulation* (pp. 91-114). West Sussex, UK: Wiley Blackwell.
- Fox, N.A. (2010). Factors contributing to the emergence of anxiety amongst behaviorally inhibited children: The role of attention. In H. Gazelle & K.H. Rubin (Eds.), *Social anxiety in childhood: Bridging developmental and clinical perspectives. New Directions in Child and Adolescent Development, 127* (pp. 33-49). San Francisco: Jossey-Bass.
- White, L.K., Helfinstein, S.M., & Fox, N.A. (2010). Temperamental factors associated with the acquisition of Information Processing and Anxiety. In J.A. Hadwin and A.P. Field (Eds.), *Information processing biases in child and adolescent anxiety* (pp. 233-252). West Sussex, UK: John Wiley & Sons Ltd.
- Kirwan, M.L., White, L.K., & Fox, N.A. (2011). The emotion-attention interface: Neural, developmental, and clinical considerations. In J. Decety and J. Cacciopo (Eds.), *The Oxford Book of Social Neuroscience*, (pp. 227-242). Oxford University Press. Oxford.

- Fox, N.A., Kirwan, M., Reeb-Sutherland, B. (2012). Measuring the physiology of emotion and emotion regulation - Timing is everything. In T.A. Dennis, K.A. Buss, & P.D. Hastings (Eds.), *Physiological Measures of Emotion from a Developmental Perspective: State of the Science, Monographs of the Society for Research in Child Development*, 77(2), 98-108.
- Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2012). Early hazards to brain development: The effects of early institutionalization on brain and behavioral development. In S. Pauen & M. Bornstein (Eds.), *Early childhood development and later outcome* (pp. 148-167). Cambridge, UK: Cambridge University Press.
- Suway, J.G. & Fox, N.A. (2012). Cognitive bias modification: The effects of training paradigms. In Burack, J.A., Enns, J.T., and Fox, N.A. (Eds.), *Cognitive Neuroscience, Development, and Psychopathology*, (pp. 47-70). Oxford University Press, New York.
- White, L.K., Lamm, C., Helfinstein, S.M., & Fox, N.A. (2012). Neurobiology and neurochemistry of temperament in children and adolescence. In M. Zenter and R. Shriner (Eds.), *Handbook of Temperament*, (pp. 347-367). Guilford Press, New York.
- Fox, N.A & Frenkel, T.I. (2013) Temperament in Early Childhood and the Development of Anxiety and Depression. Rapee, R.M., topic Ed. In Tremblay RE, Boivin M, Peters RDeV, (Eds), *Encyclopedia on Early Childhood Development*, (pp. 1-11) [online]. Center for Excellence for Early Childhood Development and Strategic Knowledge Cluster on Early Childhood Development, Montreal, Quebec.
<http://www.childencyclopedia.com/documents/Fox-FrenkelANGxp1.pdf>
- Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2013). The effects of severe psychosocial deprivation on children's cognitive and social development. In N.S. Lansdale, S.M. McHale & A. Booth (Eds.), *Families and child health* (pp. 33-41). Springer, New York.
- Fox, N.A., Reeb-Sutherland, B.C., & Degnan, K.A. (2013). Personality and emotional development: An overview. In P. Zelazo (Ed.), *The Oxford Handbook of Developmental Psychology*, 2 (pp.15-44). Oxford University Press, New York.
- Lahat, A. & Fox, N.A. (2013). The neural correlates of cognitive control and the development of social behavior. In J. Rubenstein and P. Rakic (Eds.), *Comprehensive Developmental Neuroscience*, 3 (pp.413-427). Oxford University Press, New York.
- Fox, N.A. & Walker, O.L. (2015). Temperament: individual differences in reactivity and regulation as antecedents to personality. In A. Thapar, D.S. Pine, J.F. Leckman, S. Scott, M.J. Snowling, & E. Taylor (Eds.), *Rutter's Child and Adolescent Psychiatry Sixth Edition* (pp. 93-104). Wiley, New York.
- Frenkel, T. & Fox, N.A. (2015). Key factors in socialization across early child development: A functional and neuroscience perspective. In J. Grusec and P. Hastings (Eds.), *Handbook of Socialization* (pp. 419-450). Guilford Press, NY.

- Yoo, K.H. & Fox, N.A. (2015). The mirror neuron system and the mu rhythm. In P.F. Ferrari & G. Rizzolatti (Eds.), *New Frontiers in Mirror Neuron Research* (pp. 256-273). Oxford: Oxford University Press, USA.
- Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2016). The Effects of Early Psychosocial Deprivation on Brain and Behavioral Development: Findings from the Bucharest Early Intervention Project. In D. Cicchetti (Ed.), *Developmental Psychopathology, 3rd Edition, Volume 4* (pp. 934-971). Wiley Press.
- Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2016). Attachment at the extremes: Lessons from the Bucharest Early Intervention Project. In C. Herreman, S. Gojman, and L.A. Sroufe, (Eds.), *Attachment across Cultural and Clinical Contexts: Psychoanalytic Perspectives* (pp. 142-163). Routledge, New York.
- Humphreys, K.L., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2017). Psychopathology following severe deprivation: History, research, and implications of the Bucharest Early Intervention Project. In A.V. Rus, S.R. Parris, & E. Stativa (Eds.), *Child Maltreatment in Long-Term Residential Centers: History, Research, and Current Implications*, pp. 129-148. New York: Springer.
- Buzzell, G.A., Troller-Renfree, S.V., Morales, S., & Fox, N.A. (2018). Relations between Behavioral Inhibition, Cognitive Control, and Anxiety: Novel Insights Provided by Parsing Subdomains of Cognitive Control. In K. Pérez-Edgar & N.A. Fox (Eds.), *Behavioral Inhibition: Integrating Theory, Research, and Clinical Perspectives* (pp. 213–235). Cham: Springer International Publishing.
- McDermott, J.M., & Fox, N.A. (2019). Emerging Executive Functions in Early Childhood. In C.H. Zeanah (Ed.), *Handbook of infant mental health* (4th ed., pp. 120-133). New York: The Guilford Press.
- Morales, S. & Fox, N.A. (2019). A Neuroscience Perspective on Emotional Development. In V. LoBue, K. Pérez-Edgar, & K. Buss (Eds.), *Handbook of Emotional Development*, Cham, Switzerland: Springer. DOI:10.1007/978-3-030-17332-6_4
- Fox, N.A., Salo, V.C., Morales, S., Debnath, R. Smith, E.G. (2020). Mirror system development and social cognition. In C. Tamis-LeMonda & J. Lockman (Eds.) *Cambridge Handbook of Infant Development*. Cambridge: Cambridge University Press.
- Schmidt, L.A., Poole, K.L., Fox, N.A., & Kagan, J. (2020). The study of behavioral inhibition and temperamental shyness across four academic generations. In L.A. Schmidt & K.L. Poole (Eds.), *Adaptive Shyness: Multiple Perspectives*. Springer Publishers.
- Zeytinoglu, S. & Fox, N. A. (2021). What does animal (non-human) research tell us about social deprivation and social isolation? In Robert J. Coplan; Julie C. Bowker & Larry J. Nelson

(Eds.) *The Handbook of Solitude: Psychological Perspectives on Social Isolation, Social Withdrawal, and Being Alone*. Wiley-Blackwell Press.

In Press:

Buzzell, G. A., Lahat, A., Fox, N. A. (in press). The neural correlates of cognitive control and the development of social behavior. In J. Rubenstein and P. Rakic (Eds.), *Comprehensive Developmental Neuroscience: Neural Circuit and Cognitive Development (Second Edition, Vol 2)*. Amsterdam, Netherlands: Elsevier.

Series

Fox, N.A., Nelson, C.A., and Zeanah. C.H. (2014). The effects of psychosocial deprivation on brain structure and function. In J.F. Leckman, C. Panter-Brick, and R. Salah (Eds.), and J. Lupp (Series Ed.) *Formative Childhoods: A Path to Peace? Strüngmann Forum Reports, 15*. MIT Press, Cambridge, MA.

Articles in Refereed Journals

1975:

Rogoff, B., Sellers, M., Pirota, S., Fox, N.A., & White, S. (1975). Age of assignment of roles and responsibilities to children: A cross cultural survey. *Human Development, 18*, 353-369.

1977:

Fox, N.A. (1977). Attachment of Israeli Kibbutz infants to mother and metapelet. *Child Development, 48*(4), 1228-1239.

1979:

Fox, N.A., Kagan, J., & Weiskopf, S. (1979). The growth of memory during infancy. *Genetic Psychology Monographs, 99*, 91-130.

1980:

Rogoff, B., Newcombe, N., Fox, N.A., & Ellis, S. (1980). Transitions in children's roles and capabilities. *International Journal of Psychology, 15*, 181-200.

1982:

Davidson, R.J., & Fox, N.A. (1982). Asymmetrical brain activity discriminates between positive versus negative affect in human infants. *Science, 218*, 1235-1237.

Fox, N.A. & Lewis, M. (1982a). Motor asymmetries in preterm infants: Effects of prematurity and illness. *Developmental Psychobiology, 15*(1), 19-23.

Fox, N.A. & Lewis, M. (1982b). Prematurity, illness, and experience as factors in preterm development. *Journal of the Division of Early Childhood, 6*, 60-72.

1983:

Fox, N.A. (1983). Maturation of autonomic control in preterm infants. *Developmental Psychobiology, 16*(6), 495-504.

Fox, N.A. & Lewis, M. (1983). Cardiac response to speech sounds in preterm infants: Effects of postnatal illness at three months. *Psychophysiology, 20*, 481-488.

Greene, J.G., Fox, N.A., & Lewis, M. (1983). The relationship between neonatal characteristics and three-month mother-infant interaction in high risk infants. *Child Development, 54*, 1286-1296.

1984:

Fox, N.A. & Gelles, M. (1984). Face to face interaction in term and preterm infants. *Infant Mental Health Journal, 5*(4), 192-205.

1985:

Fox, N.A. (1985). The relationship of perinatal birth status to handedness: A prospective study. *Infant Mental Health Journal, 6*, 175-184.

Fox, N.A. & Porges, S.W. (1985). The relationship between neonatal heart period patterns and developmental outcome. *Child Development, 56*, 28-37.

1986:

Fox, N.A. & Davidson, R.J. (1986). Taste elicited changes in facial signs of emotion and the asymmetry of brain electrical activity in human newborns. *Neuropsychologia, 24*, 417-422.

1987:

Feiring, C., Fox, N.A., Jaskir, J., & Lewis, M. (1987). The relation of social support to mother-infant interaction in a high-risk sample. *Developmental Psychology, 23*, 400-405.

Fox, N.A. & Davidson, R.J. (1987). EEG asymmetry in response to the approach of a stranger and maternal separation in ten month old infants. *Developmental Psychology, 23*, 233-240.

Stifter, C.A. & Fox, N.A. (1987). Preschool children's ability to identify and label emotions. *Journal of Non-Verbal Behavior, 11*, 34-45.

1988:

Fein, G. & Fox, N.A. (1988). Infant day care: What are the issues? *Education Research Quarterly*.

Fox, N.A. & Davidson, R.J. (1988). Pattern of brain electrical activity during facial signs of emotion in ten month old infants. *Developmental Psychology, 24*, 230-236.

1989:

Davidson, R.J. & Fox, N.A. (1989). Frontal brain asymmetry predicts infants' responses to maternal separation. *Journal of Abnormal Psychology, 98*, 127-131.

Fox, N.A. (1989). Psychophysiological correlates of emotional reactivity during the first year of life. *Developmental Psychology, 25*, 364-372.

Fox, N.A. (1989). Face recognition needs affect. *European Bulletin of Cognitive Psychology, 9*, 363-367.

Fox, N.A. & Field, T. (1989). Individual differences in preschool entry behavior. *Journal of Applied Developmental Psychology, 10*, 527-540.

Stifter, C.A., Fox, N.A., & Porges, S.W. (1989). Facial expressivity and vagal tone in 5- and 10-month-old infants. *Infant Behavior and Development*, 12, 127-137.

1990:

Fox, N.A. & Fitzgerald, H.E. (1990). Autonomic function in infancy. *Merrill-Palmer Quarterly*, 36, 27-52.

Stifter, C.A. & Fox, N.A. (1990). Infant reactivity: Physiological correlates of newborn and five-month temperament. *Developmental Psychology*, 26, 582-588.

1991:

Fox, N.A. (1991). If it's not left, it's right: Electroencephalogram asymmetry and the development of emotion. *American Psychologist*, 46, 863-872.

Fox, N.A., Kimmerly, N.L., & Schaefer, W.D. (1991). Attachment to mother/attachment to father: A meta-analysis. *Child Development*, 62, 210-225.

1992:

Bell, M.A. & Fox, N.A. (1992). The relations between frontal brain electrical activity and cognitive development during infancy. *Child Development*, 63, 1142-1163.

Calkins, S.D. & Fox, N.A. (1992). The relations among infant temperament, security of attachment and behavioral inhibition at 24 months. *Child Development*, 63, 1456-1472.

Fox, N.A., Bell, M.A., & Jones, N.A. (1992). Individual differences in response to stress and cerebral asymmetry. *Developmental Neuropsychology*, 8(2/3), 161-184.

Jones, N.A. & Fox, N.A. (1992). Electroencephalogram asymmetry during emotionally evocative films and its relation to positive and negative affectivity. *Brain and Cognition*, 20, 280-299.

1993:

Halberstadt, A.G., Fox, N.A., & Jones, N.A. (1993). Do expressive mothers have expressive children? The role of socialization in children's affect expression. *Social Development*, 2, 48-65.

Pivik, R.Y., Broughton, R., Coppola, R., Davidson, R.J., Fox, N.A., & Nuwer, M.R. (1993). Guidelines for the recording and quantitative analysis of electroencephalographic activity in research contexts. *Psychophysiology*, 30, 547-558.

1994:

Coplan, R.J., Rubin, K.H., Fox, N.A., & Calkins, S.D. (1994). Being alone, playing alone, and acting alone: distinguishing among reticence, and passive-, and active-solitude in young children. *Child Development*, 65, 129-138.

DiPietro, J.A., Caughy, M.O., Cusson, R., & Fox, N.A. (1994). Cardiorespiratory functioning of preterm infants: Stability and risk associations for measures of heart rate variability and oxygen saturation. *Developmental Psychobiology*, 27, 137-152.

- DiPietro, J.A., Cusson, R.M., Caughy, M.O., & Fox, N.A. (1994). Behavioral and physiological effects of nonnutritive sucking during gavage feeding in preterm infants. *Pediatric Research*, 36, 207-214.
- Fox, N.A. (1994). Dynamic cerebral processes underlying emotion regulation. In N.A. Fox (Ed.) *The development of emotion regulation: Biological and Behavioral Considerations. Monographs of the Society for Research in Child Development*, 59(2/3), 152-166.
- Fox, N.A. (1994). (Ed). *The development of emotion regulation: Biological and Behavioral Considerations. Monographs of the Society for Research in Child Development*, 59(2/3).
- Fox, N.A., Calkins, S.D., & Bell, M.A. (1994). Neural plasticity and development in the first two years of life: Evidence from cognitive and socio-emotional domains of research. *Development and Psychopathology*, 6, 677-696.
- Newcombe, N.S. & Fox, N.A. (1994). Infantile amnesia: Through a glass darkly. *Child Development*, 65, 31-40.
- Schmidt, L. & Fox, N.A. (1994). Patterns of cortical electrophysiology and autonomic activity in adults' shyness and sociability. *Biological Psychology*, 38, 183-198.
- 1995:
- Field, T., Fox, N.A., Pickens, J., & Narocki, T. (1995). Relative right frontal EEG activation in 3-to-6-month old infants of "depressed" mothers. *Developmental Psychology*, 31, 358-363.
- Field, T., Pickens, J., Fox, N.A., Nawrocki, T., & Gonzalez, J. (1995). Vagal tone in infants of depressed mothers. *Development and Psychopathology*, 7, 227-231.
- Fox, N.A. (1995). Of the way we were: Adult memories about attachment experiences and their role in determining infant-parent relationships: A commentary on van IJzendoorn (1995). *Psychological Bulletin*, 117, 404-410.
- Fox, N.A., Rubin, K.H., Calkins, S.D., Marshall, T.R., Coplan, R.J., Porges, S.W., Long, J., & Stewart, S. (1995). Frontal activation asymmetry and social competence at four years of age. *Child Development*, 66, 1770-1784.
- Halberstadt, A.G., Cassidy, J., Stifter, C.A., Parke, R.D., & Fox, N.A. (1995). Self-expressiveness within the family context: Psychometric support for a new measure. *Psychological Assessment*, 7, 93-103.
- Rubin, K.H., Coplan, R.J., Fox, N.A., & Calkins, S.D. (1995). Emotionality, emotion regulation, and preschoolers' social adaptation. *Development and Psychopathology*, 7, 49-62.
- Schmidt, L.A. & Fox, N.A. (1995). Individual differences in young adults' shyness and sociability: Personality and health correlates. *Personality and Individual Differences*, 19, 455-462.

Zahn-Waxler, C., Cole, P.M., Welsh, J.D., & Fox, N.A. (1995). Psychophysiological correlates of empathy and prosocial behaviors in preschool children with behavior problems. *Development and Psychopathology*, 7, 27-48.

1996:

Bell, M.A. & Fox, N.A. (1996), Crawling experience is related to changes in cortical organization during infancy: Evidence from EEG coherence. *Developmental Psychobiology*, 29, 551-561.

Calkins, S.D., Fox, N.A., & Marshall, T.R. (1996). Behavioral and physiological antecedents of inhibition in infancy. *Child Development*, 67, 523-540.

Cole, P.M., Zahn-Waxler, C., Fox, N.A., Usher, B.A., & Welsh, J.D. (1996). Individual differences in emotion regulation and behavior problems in preschool children. *Journal of Abnormal Psychology*, 105, 518-529.

Field, T., Ironson, G., Scafidi, F., Nawrocki, T., Goncalves, A., Pickens, J., Fox, N.A., Schanberg, S., & Kuhn, C. (1996). Massage therapy reduces anxiety and enhances EEG patterns of alertness and math computations. *International Journal of Neuroscience*, 86, 197-205.

Fox, N.A., Schmidt, L.A., Calkins, S.D., Rubin, K.H., & Coplan, R.J. (1996). The role of frontal activation in the regulation and dysregulation of social behavior during the preschool years. *Development and Psychopathology*, 8, 89-102.

Schmidt, L.A. & Fox, N.A. (1996). Left frontal EEG activation in the development of toddlers' sociability. [Special Issue]. *Brain and Cognition*, 32(2), 243-246.

1997:

Bell, M.A. & Fox, N.A. (1997). Individual differences in object permanence performance at 8 months: Locomotor experience and brain electrical activity. *Developmental Psychobiology*, 31, 287-297.

Jones, N.A., Field, T., Fox, N.A., Davalos, M., Malphurs, J., Carraway, K., Schanberg, S., & Kuhn, C. (1997). Infants of intrusive and withdrawn mothers. *Infant Behavior and Development*, 20(2), 175-186.

Jones, N.A., Field, T., Fox, N.A., Lundy, B., & Davalos, M. (1997). EEG activation in 1-month old infants of depressed mothers. *Development and Psychopathology*, 9, 491-505.

Schmidt, L.A., Fox, N.A., Rubin, K.H., Sternberg, E.M., Gold, P.W., Smith, C.C., & Schulkin, J. (1997). Behavioral and neuroendocrine responses in shy children. *Developmental Psychobiology*, 30, 127-140.

1998:

Byrnes, J. P. & Fox, N.A. (1998a). The Educational Relevance of Research in Cognitive neuroscience. *Educational Psychology Review*, 10, 297-342.

- Byrnes, J.P. & Fox, N.A. (1998b). Minds, Brains, and Education: Part II. Responding to the Commentaries. *Educational Psychology Review*, 10, 431-439.
- Field, T., Martinez, A., Nawrocki, T., Pickens, J., Fox, N.A., & Schanburg, S. (1998). Music shifts frontal EEG in depressed adolescents. *Adolescence*, 33, 109-116.
- Field, T., Pickens, J., Fox, N.A., Gonzalez, J., & Nawrocki, T. (1998). Facial expression and EEG responses to happy and sad faces/voices by 3-month-old infants of depressed mothers. *British Journal of Developmental Psychology*, 16, 485-494.
- Henderson, H.A. & Fox, N.A. (1998). Inhibited and uninhibited children: Unique challenges in school settings. *School Psychology Review*, 27, 492-505.
- Jones, N.A., Field, T., Fox, N.A., Davalos, M., Lundy, B., & Hart, S. (1998). Newborns of Mothers with Depressive Symptoms are Physiologically Less Developed. *Infant Behavior and Development*, 21, 537-541.
- Schmidt, L.A. & Fox, N.A. (1998). Fear-potentiated startle responses in temperamentally different human infants. *Developmental Psychobiology*, 32, 113-120.
- Schmidt, L.A., Fox, N.A., & Long, J.M. (1998a). Acoustic startle electromyographic (EMG) activity indexed from an electrooculographic (EOG) electrode placement: A methodological note. *International Journal of Neuroscience*, 93, 185-188.
- Schmidt, L.A., Fox, N.A., & Long, J.M. (1998b). Brief Communication: A Software Solution for Reducing Startle Eyeblink Responses. *International Journal of Neuroscience*, 93, 1-6.
- 1999:
- Fox, N.A. and Henderson, H.A. (1999). Does infancy matter? Predicting social behavior from infant temperament. *Infant Behavior and Development*, 22, 445-456.
- Raviv, A., Raviv, A., Shimoni, H., Fox, N.A., & Leavitt, L.A. (1999). Children's self-report of exposure to violence and its relation to emotional distress. *Journal of Applied Developmental Psychology*, 20, 337-353.
- Schmidt, L.A., Fox, N.A., Goldberg, M.C., Smith, C.C., & Schulkin, J. (1999). Effects of acute prednisone administration on memory, attention, and emotion in healthy human adults. *Psychoneuroendocrinology*, 24, 461-483.
- Schmidt, L.A., Fox, N.A., Schulkin, J., & Gold, P.W. (1999). Behavioral and psychophysiological correlates of self-presentation in temperamentally shy children. *Developmental Psychobiology*, 35, 119-135.
- Schmidt, L.A., Fox, N.A., Sternberg, E.M., Gold, P.W., Smith, C.C., & Schulkin, J. (1999). Adrenocortical reactivity and social competence in seven year olds. *Personality and Individual Differences*, 26, 975-985.

Young, S.K., Fox, N.A., & Zahn-Waxler, C. (1999). The relations between temperament and empathy in two-year-olds. *Developmental Psychology, 35*, 1189-1197.

2000:

Bar-Haim, Y., Marshall, P.J., & Fox, N.A. (2000). Developmental changes in heart period and high-frequency heart period variability from 4 months to 4 years of age. *Developmental Psychobiology, 37*, 44-56.

Bar-Haim, Y., Sutton, B. D., Fox, N.A., & Marvin, R. S. (2000). Stability and change of attachment at 14, 24, and 58 months of age: Behavior, representation, and life events. *Journal of Child Psychology and Psychiatry, 41*, 381-388.

Jones Harden, B., Winslow, M., Kendziora, K., Shahinfar, A., Rubin, K., Fox, N.A., Crowley, M.J., & Zahn Waxler, C. (2000). Externalizing problems in Head Start children: An ecological exploration. *Early Education and Development, 11*, 357-385.

Marshall, P. J., Fox, N.A., & Henderson, H.A. (2000). Temperament as an organizer of development: Commentary on Campos et al (2000). Travel broadens the mind. *Infancy, 1*, 239-244.

Mundy, P., Card, J., & Fox, N.A. (2000). EEG Correlates of the development of infant joint attention skills. *Developmental Psychobiology, 36*, 325-338.

Newcombe, N.S., Bullock Drummey, A., Fox, N.A., Lie, E., & Ottinger-Alberts, W. (2000). Remembering early childhood: How much, how and why (or why not). *Current Directions in Psychological Science, 9*, 55-58.

Shahinfar, A., Fox, N.A., & Leavitt, L.A. (2000). Preschool children's exposure to violence: Relation of behavior problems to parent and child reports. *American Journal of Orthopsychiatry, 70*, 115-125.

Waldstein, S.R., Kop, W.J., Schmidt, L.A., Haufner, A.J., Krantz, D.S., & Fox, N.A. (2000). Frontal electrocortical and cardiovascular reactivity during happiness and anger. *Biological Psychology, 55*, 3-23.

2001:

Fox, N.A., Henderson, H.A., Rubin, K.H., Calkins, S.D., & Schmidt, L.A. (2001). Continuity and discontinuity of behavioral inhibition and exuberance: Psychophysiological and behavioral influences across the first four years of life. *Child Development, 72*(1), 1-21.

Henderson, H.A., Fox, N.A., & Rubin, K.H. (2001). Temperamental contributions to social behavior: The moderating roles of frontal EEG asymmetry and gender. *Journal of the American Academy of Child and Adolescent Psychiatry, 40*, 68-74.

Jones, N.A., Field, T., Fox, N.A., Davalos, M., & Gomez, C. (2001). EEG during different emotions in 10-month-old infants of depressed mothers. *Journal of Reproductive and Infant Psychology*, 19(4), 295-312.

Raviv, A., Erel, O., Fox, N.A., Leavitt, L.A., Raviv, A., Dar, I., Shahinfar, A., & Greenbaum, C.W. (2001). Individual measurement of exposure to everyday violence among elementary schoolchildren across various settings. *Journal of Community Psychology*, 29(2), 117-140.

Rubin, K.H., Cheah, C., & Fox, N.A. (2001). Emotion regulation, parenting, and display of social reticence in preschoolers. *Early Education and Development*, 12, 97-115.

Schmidt, L.A., Fox, N.A., Hu, S., Pérez-Edgar, K., & Hamer, D.H. (2001). Association of dopamine DRD4 with attention problems in normal childhood development. *Psychiatric Genetics*, 11, 25-29.

2002:

Bar-Haim, Y., Pérez-Edgar, K., Fox, N.A., Beck, J.M., West, G.M., Bhangoo, R.K., Myers, F.S., & Leibenluft, E. (2002). The emergence of childhood bipolar disorder: A prospective study from 4 months to 7 years of age. *Journal of Applied Developmental Psychology*, 23, 431-450.

Calkins, S.D. & Fox, N.A. (2002). Self-regulatory processes in early personality development: A multilevel approach to the study of childhood social withdrawal and aggression. *Development and Psychopathology*, 14, 477-498.

Marshall, P.J., Bar-Haim, Y., & Fox, N.A. (2002). Development of the EEG from 5 months to 4 years of age. *Clinical Neurophysiology*, 113, 1199-1208.

Marshall, D.H., Drummey, A.B., Fox, N.A., & Newcombe, N.S. (2002). An event-related potential study of item recognition memory in children and adults. *Journal of Cognition and Development*, 3(2), 201-224.

Miller, A. Fox, N.A., Cohn, J.F., Forbes, E.E., Sherrill, J.T., & Kovacs, M. (2002). Regional patterns of brain activity in adults with a history of childhood-onset depression: Gender differences and clinical variability. *American Journal of Psychiatry*, 159, 934-940.

Schmidt, L.A., Fox, N.A., Rubin, K.H., Hu, S., & Hamer, D.H. (2002). Molecular genetics of shyness and aggression in preschoolers. *Personality and Individual Differences*, 133, 227-238.

2003:

Bar-Haim, Y., Marshall, P.J., & Fox, N.A. (2003). Mismatch negativity in socially withdrawn children. *Biological Psychiatry*, 54(1), 17-24.

- Bell, M.A. & Fox, N.A. (2003). Cognition and affective style: Individual differences in brain electrical activity during spatial and verbal tasks. *Brain and Cognition*, 53, 441-451.
- Burgess, K.B., Marshall, P.J., Rubin, K.H., & Fox, N.A. (2003). Infant attachment and temperament as predictors of subsequent behavior problems and cardiac physiology. *Journal of Child Psychology and Psychiatry*, 44, 819-831.
- Cole, C.F., Richman, B.A., Yung, F., Arafat, C., Tidhar, C., Zidan, W.T., Fox, N.A., Killen, M., Ardilla-Rey, A., Leavitt, L., & Lesser, G. (2003). The educational impact of *Rechov Sumsum/Shara'a Simsim: A Sesame Street Television Series* to promote respect and understanding among children living in Israel, the West Bank and Gaza. *International Journal of Behavioral Development*, 27, 409-422.
- Fox, N.A. (2003). Not quite ready to invest. *Human Development*, 46, 104-108.
- Fox, N.A. & Calkins, S. (2003). The development of self-control of emotion: Intrinsic and extrinsic influences. *Motivation & Emotion*, 27(1), 7-26.
- Mundy, P., Fox, N.A., & Card, J. (2003). EEG coherence, joint attention and language development in the second year. *Developmental Science*, 6(1), 48-54.
- Pérez-Edgar, K. & Fox, N.A. (2003). Individual differences in children's performance during an emotional stroop task: A behavioral and electrophysiological study. *Brain and Cognition*, 52, 33-51.
- Zeanah, C.H., Nelson C.A., Fox, N.A., Smyke, A.T., Marshall, P., Parker, S.W., Koga, S. (2003). Designing research to study the effects of institutionalization on brain and behavioral development: The Bucharest Early Intervention Project. *Development and Psychopathology*, 15, 885-907.
- 2004:
- Bar-Haim, Y., Fox, N.A., Van Meenan, K.M., & Marshall, P.J. (2004). Children's narratives and patterns of cardiac reactivity. *Developmental Psychobiology*, 44, 238-249.
- Henderson, H.A., Marshall, P.J., Fox, N.A., & Rubin, K.H. (2004). Psychophysiological and behavioral evidence for varying forms and functions of nonsocial behavior in preschoolers. *Child Development*, 75(1), 251-263.
- Marshall, P.J. Fox, N.A., & BEIP Core Group (2004). A comparison of the electroencephalogram between institutionalized and community children in Romania. *Journal of Cognitive Neuroscience*, 16(8), 1327-1338.
- Marshall, P.M., Bar-Haim, Y., & Fox, N.A. (2004). The development of P50 suppression in the auditory event-related potential. *International Journal of Psychophysiology*, 51, 135-141.

Santesso, D.L., Schmidt, L.A., & Fox, N.A. (2004). Are shyness and sociability still a dangerous combination for substance abuse? Evidence from a US and Canadian sample. *Personality and Individual Differences, 37*, 5-17.

Wallstrom, G.L., Kass, R.E., Miller, A., Cohn, J.F., & Fox, N.A. (2004). Automatic correction of ocular artifacts in the EEG: A comparison of regression-based and component-based methods. *Psychopathology, 53*, 105-119.

Zeanah, C.H. & Fox, N.A. (2004). Temperament and attachment disorders. *Journal of Clinical Child and Adolescent Psychology, 33*, 32-41.

2005:

Forbes, E.E., Miller, A., Cohn, J.F., Fox, N.A., & Kovacs, M. (2005). Affect-modulated startle in adults with childhood-onset depression: Relations to bipolar course and number of lifetime depressive episodes. *Psychiatry Research, 134*, 11-25.

Fox, N.A., Henderson, H.A., Marshall, P.J., Nichols, K.E., & Ghera, M.M. (2005). Behavioral inhibition: Linking biology and behavior within a developmental framework. *Annual Review of Psychology, 56*, 235-262.

Fox, N.A., Nichols, K.E., Henderson, H.A., Rubin, K.H., Schmidt, L.A., Hamer, D.H., Ernst, M., & Pine, D.S. (2005). Evidence for a gene environment interaction in predicting behavioral inhibition in middle childhood. *Psychological Science, 16*, 921-926.

Marshall, P.J. & Fox, N.A. (2005). Relations between behavioral reactivity at 4 months and attachment classification at 14 months in a selected sample. *Infant Behavior and Development, 28*, 492-502.

Nelson, L.J., Rubin, K.H., & Fox, N.A. (2005). Social withdrawal, observed peer acceptance, and the development of self-perceptions in children ages 4 to 7 years. *Early Childhood Research Quarterly, 20*, 185-200.

Nichols, K. E., Fox, N.A., & Mundy, P. (2005). Joint attention, self-recognition, and neurocognitive function in toddlers. *Infancy, 7*, 31-47.

Nichols, K.E., Martin, J.N., & Fox, N.A. (2005). Individual differences in the development of social communication: Joint attention and temperament. *Cognition, Brain, Behavior, 9*(3), 317-328.

Parker, S.W., Nelson, C.A., & BEIP Core Group (2005a). An event-related potential study of the impact of institutional rearing on face recognition. *Development and Psychopathology, 17*, 621-639.

Parker, S.W., Nelson, C.A., & BEIP Core Group (2005b). The impact of early institutional rearing on the ability to discriminate facial expressions of emotion: An event-related potential study. *Child Development, 76*(1), 54 – 72.

- Pérez-Edgar, K. & Fox, N.A. (2005). A behavioral and electrophysiological study of children's selective attention under neutral and affective conditions. *Journal of Cognition & Development, 6*(1), 89-118.
- Pérez-Edgar, K. & Fox, N.A. (2005). Temperament and anxiety disorders. *Child and Adolescent Psychiatric Clinics, 14*, 681-706.
- Rich, B.A., Schmajik, M., Pérez-Edgar, K., Pine, D.S., Fox, N.A., & Leibenluft, E. (2005). The impact of reward, punishment, and frustration on attention in pediatric bipolar disorder. *Biological Psychiatry, 58*, 532-539.
- Schorr, E. A., Fox, N.A., van Wassenhove, V., & Knudsen, E.I. (2005). Auditory-visual fusion in speech perception in children with cochlear implants. *Proceedings of the National Academy of Sciences, 102*, 18748-18750.
- Spere, K.A., Schmidt, L.A., Riniolo, T.C., & Fox, N.A. (2005). Is a lack of cerebral hemisphere dominance a risk factor for social "conflictedness"? Mixed-handedness in shyness and sociability. *Personality and Individual Differences, 39*, 271-281.
- Zeanah, C.H., Smyke, A.T., Koga, S.F.M., Carlson, E., & BEIP Core Group (2005). Attachment in institutionalized and community children in Romania. *Child Development, 76*(5), 1015-1028.
- 2006:
- Forbes, E.E., Fox, N.A., Cohn, J.F., Galles, S.F., & Kovacs, M. (2006). Children's affect regulation during a disappointment: Psychophysiological responses and relation to parent history of depression. *Biological Psychology, 71*, 264-277.
- Forbes, E.E., Shaw, D.S., Fox, N.A., Cohn, J.F., Silk, J.S., & Kovacs, M. (2006). Maternal depression, frontal asymmetry, and mother-child affect expression as factors in child behavior problems. *Journal of Child Psychology and Psychiatry, 47*(1), 79-87.
- Ghera, M., Hane, A.A., Malesa, E.E., & Fox, N.A. (2006). The role of infant soothability in the relation between infant negativity and maternal sensitivity. *Infant Behavior & Development, 29*, 289-293.
- Guyer, A.E., Nelson, E.E., Pérez-Edgar, K., Hardin, M.G., Roberson-Nay, R., Monk, C.S., Bjork, J.M., Henderson, H.A., Pine, D.S., Fox, N.A., & Ernst, M. (2006). Striatal functional alteration in adolescents characterized by early childhood behavioral inhibition. *The Journal of Neuroscience, 26*(24), 6399-6405.
- Hane, A.A. & Fox, N.A. (2006). Ordinary variation in maternal caregiving influence human infant's stress reactivity. *Psychological Science, 17*(6), 550-556.

- Hane, A.A., Fox, N.A., Polak-Toste, C., Ghera, M., & Gunner, B. (2006). Contextual basis of maternal perceptions of infant temperament. *Developmental Psychology, 42*, 1077-1088.
- Hardin, M.G., Perez-Edger, K., Guyer, A., Pine, D.S., Fox, N.A., & Ernst, M. (2006). Reward and punishment sensitivity in shy and non-shy adults: Relations between social and motivated behavior. *Personality and Individual Differences, 40*, 699-711.
- Nelson, C.A., Parker, S.W., Guthrie, D., & BEIP Core Group (2006). The discrimination of facial expressions by typically developing infants and toddlers and those experiencing early institutional care. *Infant Behavior & Development, 29*(2), 210-219.
- Pérez-Edgar, K., Fox, N.A., Cohn, J.F., & Kovacs, M. (2006). Behavioral and electrophysiological markers of selective attention in children of parents with a history of depression. *Biological Psychiatry, 60*, 1131-1138.
- Tincas, I, Benga, O., & Fox, N.A. (2006). Temperamental predictors of anxiety disorders. *Cognition, Brain & Behavior, 10*, 489-515.
- Vuga, M, Fox, N.A., Cohn, J.F., George, C.J., Levenstein, R.M., & Kovacs, M. (2006). Long-term stability of frontal electroencephalographic asymmetry in adults with a history of depression and controls. *International Journal of Psychophysiology, 59*, 107-115.
- Zeanah, C.H., Koga, S.F., Simion, B., Stanescu, A., Tabacaru, C.L., Fox, N.A., Nelson, C.A., & BEIP Core Group (2006). Ethical considerations in international research collaboration: The Bucharest Early Intervention Project. *Infant Mental Health Journal, 27*(6), 559–576.
- Zeanah, C.H., Koga, S.F.M., Simion, B., Stanescu, A., Tabacaru, C.L., Fox, N.A., Nelson, C.A., & BEIP Core Group (2006). Response to commentary: Ethical dimensions of the BEIP. *Infant Mental Health Journal, 27*(6), 581–583.
- 2007:
- Degnan, K.A. & Fox, N.A. (2007). Behavioral inhibition and anxiety disorders: Multiple levels of a resilience process. *Development and Psychopathology, 19*, 729-746.
- Fox, N.A. (2007). Finished and unfinished business: Commentary on Kagan, Snidman, Kahn, & Towsley. *Monographs of the Society for Research in Child Development, 72*(2), 81-91.
- Fox, N.A., Hane, A.A., & Pine, D.S. (2007). Plasticity of affective neurocircuitry: How the environment affects gene expression. *Current Directions in Psychological Research, 16*, 1-5.
- Garrett-Peters, P. & Fox, N.A. (2007). Cross-cultural differences in children's emotional reactions to a disappointing situation. *International Journal of Behavioral Development, 31*, 161-169.

- McDermott, J.M., Pérez-Edgar, K., & Fox, N.A. (2007). Variations of the flanker paradigm: Assessing selective attention in young children. *Behavior Research Methods*, *39*, 62-70.
- Nelson, C.A., Zeanah, C.H., Fox, N.A., Marshall, P.J., Smyke, A.T., & Guthrie, D. (2007). Cognitive recovery in socially deprived young children: The Bucharest Early Intervention Project. *Science*, *318*(5058), 1937-1940.
- Pérez-Edgar, K., Fox, N.A. (2007). Temperamental contributions to children's performance in an emotion-word processing task: A behavioral and electrophysiological study. *Brain and Cognition*, *65*(1), 22-35.
- Pérez-Edgar, K., Roberson-Nay, R., Harden, M.G., Poeth, K., Guyer, A.E., Nelson, E.E., McClure, E.B., Henderson, H.A., Fox, N.A., Pine, D.S., & Ernst, M. (2007). Attention alters neural responses to evocative faces in behaviorally inhibited adolescents. *NeuroImage*, *35*, 1538-1546.
- Rich, B.A., Schmajuk, M., Pérez-Edgar, K., Fox, N.A., Pine, D.S., & Leibenluft, E. (2007). Different psychophysiological and behavioral responses elicited by frustration in pediatric bipolar disorder and severe mood dysregulation. *American Journal of Psychiatry*, *164*, 309-317.
- Santucci, A.K., Silk, J.S., Shaw, D.S., Gentzler, A., Fox, N.A., & Kovacs, M. (2007). Vagal Tone and Temperament as Predictors of Emotion Regulation Strategies in Young Children. *Developmental Psychobiology*, *50*(30), 205-216. doi: 10.1002/dev.20283.
- Schmidt, L.A., Fox, N.A., & Hamer, D.H. (2007). Evidence for a gene-gene interaction in children's behavior problems: Association of 5-HTT short *and* DRD4 long genotypes with internalizing and externalizing behaviors in typically developing seven year-olds. *Development and Psychopathology*, *19*, 1105–1116.
- Smyke, A.T., Koga, S.F., Johnson, D.E., Fox, N.A., Marshall, P.J., Nelson, C.A., Zeanah, C.H., & the BEIP Core Group (2007). The caregiving context in institution-reared and family-reared infants and toddlers in Romania. *Journal of Child Psychology and Psychiatry*, *48*(2), 210–218.
- Windsor, J., Koga, S.F., Glaze, L.E., & BEIP Core Group (2007). Language acquisition with limited input: Romanian institution and foster care. *Journal of Speech, Language, and Hearing Research*, *50*, 1365-1381. doi:10.1044/1092-4388(2007/095).

2008:

- Bulgin, N.L., Strauss, J.S., King, N.A., Shaikh, S.A., George, C.J., Fox, N.A., Barr, C.L., Kovacs, M., & Kennedy, J.L. (2008). Association study of theta EEG asymmetry and brain-derived neurotrophic factor gene variants in childhood-onset mood disorder. *Neuromolecular Medicine*, *10*, 343–355.

- Degnan, K.A., Henderson, H.A., Fox, N.A., & Rubin, K.H. (2008). Predicting social wariness in middle childhood: The moderating roles of child care history, maternal personality, and maternal behavior. *Social Development, 71*(3), 471-487.
- Forbes, E.E., Shaw, D.S., Silk, J.S., Feng, X I., Cohn, J.F., Fox, N.A., & Kovacs, M. (2008). Children's affect expression and frontal EEG asymmetry: Transactional associations with mother's depressive symptoms. *Journal of Abnormal Child Psychology, 36*(2), 207-221.
- Guyer, A.E., Lau, J.Y.F., McClure-Tone, E.B., Parrish, J., Shiffrin, N.D., Blair, R.J.R., Leibenluft, E., Fox, N.A., Ernst, M., Pine, D.S., & Nelson, E.E. (2008). Amygdala and ventrolateral prefrontal cortex function during anticipated peer evaluation in pediatric social anxiety. *Archives of General Psychiatry, 65*, 1303-1312.
- Hane, A.A., Cheah, C., Rubin, K.H., & Fox, N.A. (2008). The role of maternal behavior in the relation between shyness and social reticence in early childhood and social withdrawal in middle childhood. *Social Development, 17*, 795-811.
- Hane, A.A., Fox, N.A., Henderson, H., & Marshall, P.J. (2008). Behavioral reactivity and approach-withdrawal bias in infancy. *Developmental Psychology, 44*, 1491-1496.
- Helfinstein, S.M., White, L.K., Bar-Haim, Y., & Fox, N.A. (2008). Affective primes suppress attention bias to threat in socially-anxious individuals. *Behaviour Research and Therapy, 46*, 799-810.
- Marshall, P.J., Reeb, B.C., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2008). Effects of early intervention on EEG power and coherence in previously institutionalized children in Romania. *Development and Psychopathology, 20*, 861-880.
- Nelson, C.A., Zeanah, C.H., Fox, N.A., Marshall, P.J., Smyke, A.T., & Guthrie, D. (2008). Letter to the editor. *Science, 319*, 1336-7.
- Pérez-Edgar, K., Schmidt, L.A., Henderson, H. A., Schulkin, J., & Fox, N.A. (2008). Salivary cortisol levels and infant temperament shape developmental trajectories in boys at risk for behavioral maladjustment. *Psychoneuroendocrinology, 33*, 916-925.
- Vuga M., Fox N.A., Cohn J.F., Kovacs M., & George C. (2008). Long-term stability of electroencephalographic asymmetry and power in 3 to 9 year-old children. *International Journal of Psychophysiology, 67*(1), 70-77.

2009:

- Bar-Haim, Y., Fox, N.A., Benson, B., Guyer, A.E., Williams, A., Nelson, E.E., Pérez-Edgar, K., Pine, D.S., & Ernst, M. (2009). Neural correlates of reward processing in adolescents with a history of shyness and inhibited temperament. *Psychological Science, 20*(8), 1009-1018.

- Bos, K., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2009). Effects of early psychosocial deprivation on the development of memory and executive function. *Frontiers in Behavioral Neuroscience*, 3, 1-7.
- Bruce, J., Martin McDermott, J., Fisher, P.A., & Fox, N.A. (2009). Using behavioral and electrophysiological measures to assess the effects of a preventive intervention: A preliminary study with preschool-aged foster children. *Prevention Science*, 10(2), 129-140.
- Chronis-Tuscano, A., Degnan, K.A., Pine, D.S., Pérez-Edgar, K., Henderson, H.A., Diaz, Y., Raggi, V.I., & Fox N.A. (2009). Stable early maternal report of behavioral inhibition predicts lifetime social anxiety disorder in adolescence. *Journal of the American Academy of Child and Adolescent Psychiatry*, 48(9), 1-8.
- Gentzler, A.L., Santucci, A.K., Kovacs, M., & Fox, N.A. (2009). Respiratory sinus arrhythmia reactivity predicts emotion regulation and depressive symptoms in at-risk and control children. *Biological Psychology*, 82, 156–163.
- Ghera, M.M., Marshall, P.J., Fox, N.A., Zeanah, C.H., Nelson, C.A., Smyke, A., & Guthrie, D. (2009). The effects of foster care intervention on socially deprived institutionalized children's attention and positive affect: Results from the BEIP study. *Journal of Child Psychology & Psychiatry*, 50, 246-253.
- Lindstrom, K.M., Guyer, A.E., Mogg, K., Bradley, B.P., Fox, N.A., Ernst, M., Nelson, E.E., Leibenluft, E., Britton, J.C., Monk, C.S., Pine, D.S., & Bar-Haim, Y. (2009). Normative data on development of neural and behavioral mechanisms underlying attention orienting toward social-emotional stimuli: an exploratory study. *Brain Research*, (1292), 61-70.
- Marshall, P.J., Reeb, B., & Fox, N.A. (2009). Electrophysiological responses to auditory novelty in temperamentally different 9-month-old infants. *Developmental Science*, 12(4), 568-582.
- McDermott, J.M., Pérez-Edgar, K., Henderson, H.A., Chronis-Tuscano, A., Pine, D.S., & Fox, N.A. (2009). A history of childhood behavioral inhibition and enhanced response monitoring in adolescence are linked to clinical anxiety. *Biological Psychiatry*, 65, 445-448.
- Moulson, M.C., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2009). Early adverse experiences and the neurobiology of facial emotion processing. *Developmental Psychology*, 45(1), 17-30.
- Moulson, M.C., Westerlund, A., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2009). The effects of early experience of face recognition: An event-related potential study of institutionalized children in Romania. *Child Development*, 80(4), 1039-1056.
- Nelson, C.A., Furtado, E.A., Fox, N.A., & Zeanah, C.H. (2009). The deprived human brain: Developmental deficits among institutionalized Romanian children—and later

- improvements—strengthen the case for individualized care. *American Scientist*, 97(2), 222-229.
- Nelson, E., Herman, K.N., Barrett, C.E., Noble, P.L., Wojteczko, K., Chisholm, K., Delaney, D., Ernst, M., Fox, N.A., Winslow, J.T., & Pine, D.S. (2009). Adverse rearing experiences enhance responding to both aversive and rewarding stimuli in juvenile rhesus monkeys. *Biological Psychiatry*, 66, 702–704.
- Pine, D.S., Helfinstein, S.M., Bar-Haim, Y., Nelson, E., & Fox, N.A. (2009). Challenges in developing novel treatments for childhood disorders: Lessons from research on anxiety. *Neuropsychopharmacology Reviews*, 34, 213-228.
- Rankin Williams L., Degnan K.A., Pérez-Edgar, K., Henderson H.A., Rubin K.H., Pine D.S., Steinberg L., & Fox N.A. (2009). Impact of behavioral inhibition and parenting style on internalizing and externalizing problems from early childhood through adolescence. *Journal of Abnormal Child Psychology*, 37, 1063-1075.
- Reeb-Sutherland, B.C., Helfinstein, S.M., Degnan, K.A., Pérez-Edgar, K., Henderson, H.A., Lissek, S., Chronis- Tuscano, A., Grillion, C., Pine, D.S., & Fox, N.A. (2009). Startle response in behaviorally inhibited adolescents with a lifetime occurrence of anxiety disorders. *Journal of the American Academy of Child and Adolescent Psychiatry*. 48(6), 610-617.
- Reeb-Sutherland, B.C., Vanderwert, R.E., Degnan, K.A., Marshall, P.J., Pérez-Edgar, K., Chronis- Tuscano, A., Pine, D.S., & Fox, N.A. (2009) Attention to novelty in behaviorally inhibited adolescents moderates risk for anxiety. *Journal of Child Psychology and Psychiatry*, 50(11), 1365-1372.
- Schmidt, L.A., Fox, N.A., Pérez-Edgar, K., & Hamer, D.H., (2009). Linking gene, brain, and behavior: DRD4, frontal asymmetry, and temperament. *Psychological Sciences*. 20(7), 831-837.
- Schorr, E.A., Roth, F.P., & Fox, N.A. (2009). Quality of life for children with cochlear implants: Perceived benefits and problems and the perception of single words and emotional sounds. *Journal of Speech Language and Hearing Research*, 52, 141-152.
- Smyke, A.T., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2009). A new model of foster care for young children: The Bucharest Early Intervention Project. *Child and Adolescent Psychiatric Clinics of North America*, 18(3), 721-734.
- Vuga, M., Fox, N.A., Cohn, J.F., Kovacs, M., & George, C.J. (2009). Long-term stability of electroencephalographic asymmetry and power in 3 to 9 year old children. *International Journal of Psychophysiology*. 67(1), 70-77.
- White, L.K., Helfinstein, S.M., Reeb-Sutherland, B.C., Degnan, K.A., & Fox, N.A. (2009). Role

of attention in the regulation of fear and anxiety. *Developmental Neuroscience*, 31, 309-317.

Zeanah, C.H., Egger, H.L., Smyke, A.T., Nelson, C.A., Fox, N.A., Marshall, P.J., & Guthrie, D. (2009). Institutional rearing and psychiatric disorders in Romanian preschool children. *American Journal of Psychiatry*, 166(7), 777-785.

2010:

Bar-Haim, Y., Holoshitz, Y., Eldar, S., Frenkel, T.I., Muller, D., Charney, D.S., Pine, D.S., Fox, N.A., & Wald, I. (2010). Life-threatening danger and suppression of attention bias to threat. *American Journal of Psychiatry*, 167(6), 694-698.

Bos, K.J., Zeanah, C.H., Smyke, A.T., Fox, N.A., & Nelson, C.A. (2010). Stereotypes in children with a history of early institutional care. *Archives of Pediatric and Adolescent Medicine*, 164 (5), 406-411.

Brenick, A., Killen, M., Lee-Kim, J., Fox, N.A., Leavitt, L. A., Raviv, A., Masalha, S., Mura, F., & Smadi, Y. (2010). Social understanding in young Israeli-Jewish, Israeli-Palestinian, Palestinian, and Jordanian children: Moral judgments and stereotypes. *Early Education and Development*, 21(6), 886-911.

Degnan, K.A., Almas, A., Fox, N.A. (2010). Temperament and the environment in the etiology of childhood anxiety. *Journal of Child Psychology and Psychiatry*, 51(4), 497-517.

Drury, S.S., Theall, K.P., Smyke, A.T., Keats, B.J.B., Egger, H.L., Nelson, C.A., Fox, N.A., Marshall, P.J., & Zeanah, C.H. (2010). Modification of depression by COMT val¹⁵⁸met polymorphism in children exposed to early psychosocial deprivation. *Child Abuse and Neglect*, 34(6), 387-395. doi: 10.1016/j.chiabu.2009.09.021

Fox, N.A. & Rutter, M. (2010). Introduction to the special section on the effects of early experience on development. *Child Development*, 81, 23-27.

Hane, A.A. & Fox, N.A. (2010). Ordinary variations in human maternal caregiving in infancy and biobehavioral development in early childhood: A follow-up study. *Developmental Psychobiology*, 52(6), 558-567.

Hakamata, Y., Lissek, S., Bar-Haim, Y., Britton, J.C., Fox, N.A., Leibenluft, E., Ernst, M., & Pine, D.S. (2010). Attention bias modification treatment: A meta-analysis toward the establishment of novel treatment for anxiety. *Biological Psychiatry*, 68(11), 982-990.

He, J., Degnan, K.A., Martin McDermott, J.M., Henderson, H.A., Hane, A.A., Xu, Q., & Fox, N.A. (2010). Anger and approach motivation in infancy: Relations to early childhood inhibitory control and behavior problems. *Infancy*, 15(3), 246-269.

- Jeon, H., Mouloun, M.C., Fox, N.A., Zeanah, C.H., Nelson, C.A. (2010). The effects of early institutionalization on the discrimination of facial expressions of emotion in young children. *Infancy*, 15(2), 209-221.
- Johnson, D.E., Guthrie, D., Smyke, A.T., Koga, S.F., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2010). Growth and associations between auxology, caregiving environment, and cognition in socially deprived Romanian children randomized to foster vs. ongoing institutional care. *Archives of Pediatrics & Adolescent Medicine*, 164(6), 507-516.
- Kop, W.J., Synowski, S.J., Newell, M.E., Schmidt, L.A., Waldstein, S.R., & Fox, N.A. (2010). Autonomic nervous system reactivity to positive and negative mood induction: The role of acute psychological responses and frontal electrocortical activity. *Biological Psychology*, 86, 230-238. doi: 10.1016/j.biopsycho.2010.12.003
- McLaughlin, K.A., Fox, N.A., Zeanah, C.H., Sheridan, M.A., Marshall, P.J., & Nelson, C.A. (2010). Delayed maturation in brain electrical activity partially explains the association between early environmental deprivation and symptoms of Attention-Deficit/Hyperactivity Disorder (ADHD). *Biological Psychiatry*, 68(4), 329-336.
- Pérez-Edgar, K., Bar-Haim, Y., Martin McDermott, J., Chronis-Tuscano, A., Pine, D.S., & Fox, N.A. (2010). Attention biases to threat and behavioral inhibition in early childhood shape adolescent social withdrawal. *Emotion*, 10(3), 349-357.
- Pérez-Edgar, K., Bar-Haim, Y., Martin McDermott, J., Gorodetsky, E., Hodgkinson, C.A., Goldman, D., Ernst, M., Pine, & D.S., Fox, N.A. (2010). Variations in the serotonin transporter gene are associated with attention bias patterns to positive and negative emotion faces. *Biological Psychology*, 83, 269-271.
- Pérez-Edgar, K., McDermott, J.M., Korelitz, K., Degnan, K.E., Curby, T.W., Pine, D.S., & Fox, N.A. (2010). Patterns of sustained attention in infancy shape the developmental trajectory of social behavior from toddlerhood through adolescence. *Developmental Psychology*, 46(6), 1723-1730.
- Rich, B.A., Holroyd, T., Carver, F.W., Onelio, L.M., Mendoza, J.K., Cornwell, B.R., Fox, N.A., Pine, D.S., Coppola, R., & Leibenluft, E. (2010). A preliminary study of the neural mechanisms of frustration in pediatric bipolar disorder using magnetoencephalography. *Journal of Depression and Anxiety*, 27, 276-286.
- Smyke, A.T., Zeanah, C.H., Fox, N.A., Nelson, C.A., & Guthrie, D. (2010). Placement in foster care enhances quality of attachment among young institutionalized children. *Child Development*, 81(1), 212-223.
- Vanderwert, R.E., Marshall, P.J., Nelson, C.A., Zeanah, C.H., Fox, N.A. (2010). Timing Of intervention affects brain electrical activity in children exposed to severe psychosocial neglect. *PLoS ONE*, 5(7), e11415.

Williams, L.R., Fox, N.A., Lejuez, C.W., Reynolds, E.K., Henderson, H.A., Pérez-Edgar, K., Steinberg, L., & Pine, D.S. (2010). Early temperament, propensity for risk-taking, and adolescent substance-related problems: A prospective multi-method investigation. *Addictive Behaviors, 35*(12), 1148-1151.

2011:

Almas, A.N., Degnan, K.A., Fox, N.A., Phillips, D.A., Henderson, H.A., Moas, O.L., & Hane, A.A. (2011). The relations between infant negative reactivity, non-maternal childcare, and children's interactions with familiar and unfamiliar peers. *Social Development, 20*(4) 718-740. doi: 10.1111/j.1467-9507.2011.00605.x

Bos, K., Zeanah, C.H., Fox, N.A., Drury, S.S., McLaughlin, K.A., & Nelson, C.A. (2011). Psychiatric outcomes in young children with a history of institutionalization. *Harvard Review of Psychiatry, 19*(1), 15-24. doi: 10.3109/10673229.2011.549773

Degnan, K.A., Hane, A.A., Henderson, H.A., Moas, O.L., Reeb-Sutherland, B.C., & Fox, N.A. (2011). Longitudinal stability of temperamental exuberance and social-emotional outcomes in early childhood. *Developmental Psychology, 47*(3), 765-780. doi: 10.1037/a0021316

Drury, S.S., Gleason, M.M., Theall, K.P., Smyke, A.T., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2011). Genetic sensitivity to the caregiving context: The influence of 5httlpr and BDNF val66met on indiscriminate social behavior. *Physiology & Behavior, 106*(5), 728-735. Doi: 10.1016/j.physbeh.2011.11.014

Drury, S.S., Theall, K., Gleason, M.M., Smyke, A.T., De Vivo, I., Wong, J.Y.Y., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2011). Telomere length and early severe social deprivation: Linking early adversity and cellular aging. *Molecular Psychiatry, 17*(7), 719-727. doi: 10.1038/mp.2011.53

Fox, N.A., Almas, A.N., Degnan, K.A., Nelson, C.A., & Zeanah, C.H. (2011). Commentary response: Handling long-term attrition in randomized controlled field trials: novel approaches by BEIP and response to McCall (2011). *Journal of Child Psychology and Psychiatry, 52*(9), 931-932.

Fox, N.A., Almas, A.N., Degnan, K.A., Nelson, C.A., & Zeanah, C.H. (2011). The effects of severe psychosocial deprivation and foster care intervention on cognitive development at 8 years of age: Findings from the Bucharest Early Intervention Project. *Journal of Child Psychology and Psychiatry, 52*(9), 919-928. doi: 10.1111/j.1469-7610.2010.02355.x

Gleason, M.M., Fox, N.A., Drury, S.S., Smyke, A., Egger, H.L., Nelson, C.A., Gregas, M.C., & Zeanah, C.H. (2011). The validity of evidence-derived criteria for Reactive Attachment Disorder: Indiscriminately social/disinhibited and emotionally withdrawn/inhibited types. *Journal of the American Academy of Child & Adolescent Psychiatry, 50*(3), 216-231.

- Gleason, M.M., Zamfirescu, A., Egger, H.L., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2011). Epidemiology of psychiatric disorders in very young children in a Romanian pediatric setting. *European Child & Adolescent Psychiatry, 20*(10), 527-535. doi: 10.1007/s00787-011-0214-0
- Helfinstein, S.M., Benson, B., Pérez-Edgar, K., Bar-Haim, Y., Detloff, A., Pine, D.S., Fox, N.A., & Ernst, M. (2011). Striatal responses to negative monetary outcomes differ between temperamentally inhibited and non-inhibited adolescents. *Neuropsychologia, 49*(3), 479-485. doi: 10.1016/j.neuropsychologia.2010.12.015
- Helfinstein, S.M., Fox, N.A., & Pine, D.S. (2011). Approach–Withdrawal and the Role of the Striatum in the Temperament of Behavioral Inhibition. *Developmental Psychology, 48*(3), 815-826. doi: 10.1037/a0026402
- Lahat, A., Hong, M., & Fox, N.A. (2011). Behavioural inhibition: Is it a risk factor for anxiety? *International Review of Psychiatry, 23*, 248-257.
- McLaughlin, K.A., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2011). Adverse rearing environments and neural development in children: The development of frontal electroencephalogram asymmetry. *Biological Psychiatry, 70*(11), 1008-1015. doi: 10.1016/j.biopsych.2011.08.006
- Pérez-Edgar, K., Reeb-Sutherland, B.C., McDermott, J.M., White, L.K., Henderson, H.A., Degnan, K.A., Hane, A.A., Pine, D.S., & Fox, N.A. (2011). Attention bias to threat link behavioral inhibition to social withdrawal over time in very young children. *Journal of Abnormal Child Psychology, 39*(6), 885-895. doi: 10.1007/s10802-011-9495-5
- Reeb-Sutherland, B.C., Fifer, W.P., Byrd, D.L., Hammock, E.A.D., Levitt, P., & Fox, N.A. (2011). One-month-old human infants learn about the social world while they sleep. *Developmental Science 14*(5), 1134-1141. doi: 10.1111/j.1467-7687.2011.01062.x
- Wald, I., Shechner, T., Bitton, S., Holoshitz, Y., Charney, D.S., Muller, D., Fox, N.A., Pine, D.S., & Bar-Haim, Y. (2011). Attention bias away from threat during life threatening danger predicts PTSD symptoms at one-year follow-up. *Depression and Anxiety, 28*(5), 406-411. doi: 10.1002/da.20808
- White, L.K., McDermott, J.M., Degnan, K.A., Henderson, H.A., & Fox, N.A. (2011). Behavioral inhibition and anxiety: The moderating roles of inhibitory control and attention shifting. *Journal of Abnormal Child Psychology, 39*(5), 735-747. doi: 10.1007/s10802-011-9490-x
- White, L.K., Suway, J.G., Pine, D.S., Bar-Haim, Y., & Fox, N.A. (2011). Cascading effects: The influence of attention bias to threat on the interpretation of ambiguous information. *Behaviour Research and Therapy, 49*(4), 244-251. doi: 10.1016/j.brat.2011.01.004

Windsor, J., Benigno, J.P., Wing, C.A., Carroll, P.J., Koga, S.F., Nelson, C.A., Fox, N.A., Zeanah, C.H. (2011). Effect of foster care on young children's language learning. *Child Development*, 82(4), 1040-1046. doi: 10.1111/j.1467-8624.2011.01604.x

Zeanah, C.H., Gunnar, M.R., McCall, R.B., Kreppner, J.M., & Fox, N.A. (2011). Sensitive periods. In: R.B. McCall, M.H. van IJzendoorn, F. Juffer, C.J. Groark, & V.K. Groza, (Eds.), *Children without permanent parents: Research, practice, and policy. Monographs of the Society for Research in Child Development*, 76(4), 147-162.

Zhang, B., Suarez-Jimenez, B., Hathaway, A., Waters, C., Vaughan, K., Noble, P.L., Fox, N.A., Suomi, S.J., Pine, D.S., & Nelson, E.E. (2011). Developmental changes of rhesus monkeys in response to separation from the mother. *Developmental Psychobiology*, 54(8), 798-807. doi: 10.1002/dev.21000

2012:

Almas, A.N., Degnan, K.A., Radulescu, A., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2012). Effects of early intervention and the moderating effects of brain activity on institutionalized children's social skills at age 8. *Proceedings of the National Academy of Sciences*, 109 (Supplement 2), 17228-17231. doi: 10.1073/pnas.1121256109

Drury, S.S., Gleason, M.M., Theall, K.P., Smyke, A.T., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2012). Genetic sensitivity to the caregiving context: The influence of 5httlpr and BDNF val66met on indiscriminate social behavior. *Physiology & Behavior*, 106(5), 728-735. doi:10.1016/j.physbeh.2011.11.014

Drury, S.S., Theall, K.P., Gleason, M.M., Smyke, A.T., De Vivo, I., Wong, J.Y.Y., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2012). Telomere length and early severe social deprivation: Linking early adversity and cellular aging. *Molecular Psychiatry*, 17(7), 719-727. doi: 10.1038/mp.2011.53

Eldar, S., Apter, A., Lotan, D., Pérez-Edgar, K., Naim, R., Fox, N.A., Pine, D.S., & Bar-Haim, Y. (2012). Attention bias modification treatment for pediatric anxiety disorders: A randomized control trial. *The American Journal of Psychiatry*, 169(2) 213-230. doi: 10.1176/appi.ajp.2011.11060886

Feng, X., Forbes, E.E., Kovacs, M., George, C.J., Lopez-Duran, N.L., Fox, N.A., & Cohn, J.F. (2012). Children's depressive symptoms in relation to EEG frontal asymmetry and maternal depression. *Journal of Abnormal Child Psychology*, 40, 265-276. doi: 10.1007/s10802-011-9564-9

Ferrari, P.F., Vanderwert, R.E., Paukner, A., Bower, S., Suomi, S.J., & Fox, N.A. (2012). Distinct EEG amplitude suppression to facial gestures as evidence for a mirror mechanism in newborn monkeys. *Journal of Cognitive Neuroscience*, 24(5), 1-8.

Fox, N.A. & Pine, D.S. (2012). Temperament and the emergence of anxiety disorders. *Journal of the American Academy of Child & Adolescent Psychiatry*, 51(2) 125-128.

- Guyer, A.E., Choate, V.R., Detloff, A., Benson, B., Nelson, E.E., Pérez-Edgar, K., Fox, N.A., Pine, D.S., & Ernst, M. (2012). Striatal functional alteration during incentive anticipation in pediatric anxiety disorders. *American Journal of Psychiatry*, *169*, 205-212. doi: 10.1176/appi.ajp.2011.11010006
- Helfinstein, S. Kirwan, M., Benson, B., Hardin, M., Pine, D.S., Monique, E., & Fox, N.A. (2012). Validation of a child-friendly version of the Monetary Incentive Delay Task. *Social Cognitive and Affective Neuroscience*, *8*(6), 720-726. doi:10.1093/scan/nss057
- Lahat, A., Degnan, K.A., White, L.K., McDermott, J.M., Henderson, H.A., Lejuez, C.W., & Fox, N.A. (2012). Temperamental exuberance and executive function predict propensity for risk-taking in childhood. *Development & Psychopathology*, *24*, 847-856. doi:10.1017/S0954579412000405
- Lahat, A., Pérez-Edgar, K., Degnan, K.A., Guyer, A.E., Lejuez, C.W., Ernst, M., Pine, D.S., & Fox, N.A. (2012). Early childhood temperament predicts substance use in young adults. *Translational Psychiatry*, *2*(9), e157. doi:10.1038/tp.2012.87
- Lamm, C., White, L.K., McDermott, J.M., & Fox, N.A. (2012). Neural activation underlying cognitive control in the context of neutral and affectively charged pictures in children. *Brain and Cognition*, *79*(3), 181-187.
- Lewis-Morrarty, E., Degnan, K.A., Chronis-Tuscano, A., Rubin, K.H., Cheah, C.S.L., Pine, D.S., Henderson, H.A., & Fox, N.A. (2012). Maternal over-control moderates the association between early childhood behavioral inhibition and adolescent social anxiety symptoms. *Journal of Abnormal Child Psychology*, *40*(8), 1363-1373. doi:10.1007/s10802-012-9663-2
- McDermott, J.M., Westerlund, A., Zeanah, C.H., Nelson, C.A., & Fox, N.A. (2012). Early adversity and neural correlates of executive function: Implications for academic adjustment. *Developmental Cognitive Neuroscience*, *2*(S1), S59-S66. doi:10.1016/j.dcn.2011.09.008
- McGoron, L., Gleason, M.M., Smyke, A.T., Drury, S.S., Nelson, C.A., Gregas, M.C., Fox, N.A., & Zeanah, C.H. (2012). Recovering from early deprivation: Attachment mediates effects of caregiving on psychopathology. *Journal of the American Academy of Child & Adolescent Psychiatry*, *51*(7), 683-693.
- McLaughlin, K.A., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2012). Attachment security as a mechanism linking foster care placement to improved mental health outcomes in previously institutionalized children. *Journal of Child Psychology and Psychiatry*, *53*(1), 46-55. doi:10.1111/j.1469-7610.2011.02437.x

- Penela, E.C., Henderson, H.A., Hane, A.A., Ghera, M.M. and Fox, N.A. (2012). Maternal Caregiving Moderates the Relation Between Temperamental Fear and Social Behavior with Peers. *Infancy*, 17(6), 715-730. doi:10.1111/j.1532-7078.2012.00114.x
- Phillips, D., Crowell, N.A., Gunnar, M., Fox, N.A., Sussman, A.L., Hane, A.A., & Bisgaier, J. (2012). Reactive temperament and sensitivity to context in child care. *Social Development*, 21(3), 628-643. doi:10.1111/j.1467-9507.2011.00649.x
- Reeb-Sutherland, B.C., Levitt, P., & Fox, N.A. (2012). The predictive nature of individual differences in early associative learning and emerging social behavior. *PLoS One*, 7(1), e30511.
- Rich, B.A., Carver, F.W., Holroyd, T., Rosen, H.R., Mendoza, J.K., Cornwell, B.R., Fox, N.A., Pine, D.S., Coppola, R., & Leibenluft, E. (2012). Different neural pathways to negative affect in youth with pediatric bipolar disorder and severe mood dysregulation. *Journal of Psychiatric Research*, 45(10), 1283-1294.
- Shechner, T., Britton, J., Pérez-Edgar, K., Bar-Haim, Y., Ernst, M., Fox, N., Leibenluft, E., & Pine, D.S. (2012). Attention biases, anxiety, and development: Toward or away from threats or rewards? *Depression and Anxiety*, 29(4), 282-294. doi:10.1002/da.20914
- Shechner, T., Pelc, T., Pine, D.S., Fox, N.A., & Bar-Haim, Y. (2012). Flexible attention deployment in threatening contexts: An instructed fear conditioning study. *Emotion*, 12(5), 1041-1049. doi: 10.1037/a0027072
- Sheridan, M.A., Fox, N.A., Zeanah, C.H., McLaughlin, K.A., & Nelson, C.A. (2012). Variation in neural development as a result of exposure to institutionalization early in childhood. *Proceedings of the National Academy of Sciences of the United States of America*, 109(32), 12927-12932. doi:10.1073/pnas.1200041109
- Slopen, N., McLaughlin, K.A., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2012). Alterations in neural processing and psychopathology in children raised in institutions. *Archives of General Psychiatry*, 69(10), 1022-1030.
- Smyke, A.T., Zeanah, C.H., Gleason, M.M., Drury, S.S., Fox, N.A., Nelson, C.A., & Guthrie, D. (2012). A randomized controlled trial comparing foster care and institutional care for children with signs of reactive attachment disorder. *American Journal of Psychiatry*, 169(5), 508-514. doi: 10.1176/appi.ajp.2011.11050748
- Suway, J. G., Degnan, K.A., Sussman, A.L., & Fox, N.A. (2012). The relations among theory of mind, behavioral inhibition, and peer interaction in early childhood. *Social Development*, 21(2), 331-342.
- Vanderwert, R.E., Ferrari, P.F., Paukner, A., Bower, S.B., Fox, N.A., & Suomi, S.J. (2012). Spectral characteristics of the newborn rhesus macaque EEG reflect functional cortical activity. *Physiology & Behavior*, 107, 787-791. doi:10.1016/j.physbeh.2012.06.010

- Windsor, J., Moraru, A., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2012). Effect of foster care on language learning at 8 years. *Journal of Child Language*, *40*(3), 605-627. doi:10.1017/S0305000912000177
- Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2012). The Bucharest Early Intervention Project: Case study in the ethics of mental health research. *The Journal of Nervous and Mental Disease*, *200*(3), 243-247.
- 2013:
- Abend, R., Karni, A., Sadeh, A., Fox, N.A., Pine, D.S., & Bar-Haim, Y. (2013). Learning to attend to threat accelerates and enhances memory consolidation. *PLoS One*, *8*(4), e62501. doi:101371/journal.pone.0062501
- Fox, N.A., Barker, T.V., White, L.K., Suway, J.G., & Pine, D.S. (2013). Commentary: To intervene or not? Appreciating or treating individual differences in childhood temperament- remarks on Rapee. *Journal of Child Psychology and Psychiatry*, *54*(7), 789-790. doi:10.1111/jcpp.12101
- Gershon, R.C., Wagster, M.V., Hendrie, H.C., Fox, N.A., Cook, K.F., and Nowinski, C.J. (2013) NIH Toolbox for Assessment of Neurological and Behavioral Function. *Neurology*, *80*, S2-S6. doi:10.1212/WNL.0b013e3182872e5f
- Hardee, J.E., Benson, B.E., Bar-Haim, Y., Mogg, K., Bradley, B.P., Chen, G., Britton, J.C., Ernst, M., Fox, N.A., Pine, D.S., Perez-Edgar, K. (2013). Patterns of neural connectivity during an attention bias task moderates associations between childhood temperament and internalizing symptoms in young adulthood. *Biological Psychiatry*, *7*(4), 273-279. doi: 10.1016/j.biopsych.2013.01.036
- He, J., Hane, A.A., Degnan, K.A., Henderson, H.A., & Fox, N.A. (2013). Anger and positive reactivity in infancy: Effects on maternal report of surgency and attention focusing in early childhood. *Infancy*, *18*, 184-201. doi:10.1111/j.1532-7078.2012.00113.x
- Jarcho, J.M., Fox, N.A., Pine, D.S., Etkin, A., Leibenluft, E., Shechner, T., and Ernst, M. (2013). Neural correlates of emotion-based cognitive control in adults with early childhood behavioral inhibition. *Biological Psychology*, *92*(2), 306-314. doi:10.1016/j.biopsycho.2012.09.008
- Jarcho, J.M., Leibenluft, E., Walker, O.L., Fox, N.A., Pine, D.S., & Nelson, E.E. (2013). Neuroimaging studies of pediatric social anxiety: paradigms, pitfalls and a new direction for investigation the neural mechanisms. *Biology of Mood Anxiety Disorders* *3*, 14. doi:10.1186/2045-5380-3-14.
- Maoz, K., Abend, R., Fox, N.A., Pine, D.S., & Bar-Haim, Y. (2013). Subliminal attention bias modification training in socially anxious individuals. *Frontiers in Human Neuroscience*, *7*(389). doi:10.3389/fnhum.2013.00389

- McDermott, J.E., Troller-Renfree, S., Vanderwert, R., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2013). Psychosocial deprivation, executive functions and the emergence of socio-emotional behavior problems. *Frontiers in Human Neuroscience*, 7(167), 1-11. doi:10.3389/fnhum.2013.00167
- Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2013). Anguish of the abandoned child: The plight of orphaned Romanian children reveals the psychic and physical scars from first years spent without a loving, responsive caregiver. *Scientific American*, 308(4), 62-67.
- Nelson, C.A., Westerlund, A., McDermott, J.M., Zeanah, C.H., and Fox, N.A. (2013). Emotion recognition following early psychosocial deprivation. *Development and Psychopathology*, 25(2), 517-525. doi:10.1017/S0954579412001216
- Reeb-Sutherland, B.C., & Fox, N.A. (2013). Eyeblink Conditioning: A non-invasive biomarker for neurodevelopmental disorders. *Journal of Autism and Developmental Disorders*, 43(8). doi:10.1007/s10803-013-1905-9
- Suarez-Jimenez, B., Hathaway, A., Waters, C., Vaughan, K., Suomi, S.J., Noble, P.L., Pine, D.S., Fox, N.A., & Nelson, E.E. (2013). Effect of mother's dominance rank on offspring temperament in infant rhesus monkeys (*Macaca mulatta*). *American Journal of Primatology* 75(1), 65-73. doi:10.1002/ajp.22081
- Suway, J.G., White, L.K., Vanderwert, R. E., Bar-Haim, Y., Pine, D.S., & Fox, N.A. (2013). Modification of threat-processing in non-anxious individuals: A preliminary behavior and ERP study. *Journal of Behavior Therapy and Experimental Psychiatry*, 44(3), 285-292. doi:10.1016/j.jbtep.2012.11.006
- Vanderwert, R.E., Fox, N.A., & Ferrari, P.F. (2013). The mirror mechanism and mu rhythm in social development. *Neuroscience Letters*, 540, 15-20. doi:10.1016/j.neulet.012.10.006
- Wald, I., Degnan, K.A., Gorodetsky, E., Charney, D.S., Fox, N.A., Fruchter, E., Goldman, D., Lubin, G., Pine, D.S., & Bar-Haim, Y. (2013). Attention to threats and combat-related posttraumatic stress symptoms. *JAMA Psychiatry*, 70(4), 401-408. doi:10.1001/2013.jamapsychiatry.188
- Walker, O.L., Degnan, K.A., Fox, N.A., & Henderson, H.A. (2013). Social problem solving in early childhood: Developmental change and the influence of shyness. *Journal of Applied Developmental Psychology*, 34, 185-193. doi:10.1016/j.appdev.2013.04.001
- Weintraub, S., Dikmen, S., Heaton, R., Tulsky, D., Zelazo, P., Bauer, P., Carlozzi, N., Slotkin, J., Blitz, D., Wallnew-Allen, K., Fox, N., Beaumont, J., Mungas, D., Nowinski, C., Richler, J., Deocampo, J., Anderson, J., Manly, J., Borosh, B., Havlik, R., Conway, K., Edwards, E., Freund, L., King, J., Moy, C., Witt, E., & Gershon, R.C. (2013). Cognition assessment using the NIH Toolbox. *Neurology* 80, S54-S64. doi:10.1212/WNL.0b013e3182872ded

Windsor, J., Moraru, A., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2013). Effect of foster care on language learning at 8 years: Findings from the Bucharest Early Intervention Project. *Journal of Child Language, 40*(3), 605-627.

Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2013). Attachment relationships in the context of severe deprivation: The Bucharest Early Intervention Project. *International Society for the Study of Behavioral Development, 1*(63), 6-9.

2014:

Abend, R., Pine, D.S., Fox, N.A., & Bar-Haim, Y. (2014). Learning and memory consolidation processes of attention-bias modification in anxious and nonanxious individuals. *Clinical Psychological Science, 2*(5), 620-627. doi: 10.1177/2167702614526571.

Barker, T.V., Reeb-Sutherland, B.C., & Fox, N.A. (2014). Individual differences in fear potentiated startle in behaviorally inhibited children. *Developmental Psychobiology, 56*(1), 133-141 doi: 10.1002/dev.21096

Cannon, E.N., Yoo, K.H., Vanderwert, R.E., Ferrari, P.F., Woodward, A.L., & Fox, N.A. (2014). Action experience, more than observation, influences mu rhythm desynchronization. *PLoS One, 9*(3), e92002. doi:10.1371/journal.pone.0092002

Coudé G., Vanderwert R.E., Thorpe S., Festante F., Bimbi M., Fox, N.A., & Ferrari P.F. (2014). Frequency and topography in monkey electroencephalogram during action observation: possible neural correlates of the mirror neuron system. *Phil Trans Royal Soc B Lond Bio Sci, 369*(1644), 20130415. doi:10.1098/rstb2013.0415

Cuevas, K., Cannon, E.N., Yoo, K., and Fox, N.A. (2014) The infant EEG mu rhythm: Methodological considerations and best practices. *Developmental Review, 34*, 26-43. <http://dx.doi.org/10.1016/j.dr.2013.12.001>

Degnan, K.A., Almas, A.N., Henderson, H.A., Hane, A.A., Walker, O.L., & Fox, N.A. (2014). Longitudinal trajectories of social reticence across early childhood. *Developmental Psychology, 50*, 2311-2123.

Elder, J.P., Pequegnat, W., Ahmed, S., Bachman, G., Bullock, M., Carlo, W.A., Chandra-Mouli, V., Fox, N.A., Harkness, S., Huebner, G., Lombardi, J., McBride Murray, V., Moran, A., Norton, M., Mulik, J., Park, W., Raikes, H.H., Smyser, J., Sugg, C., & Sweat, M. (2014). Caregiver behavior change for child survival and development in low and middle-income countries: An examination of the evidence. *Journal of Health Communication, 19*, 25-66. doi:10.1080/10810730.2014.940477

Fox, N.A., Snidman, N., Haas, S.A., Degnan, K.A., & Kagan, J. (2014). The relations between reactivity at 4 months and behavioral inhibition in the second year: Replication across three independent samples. *Infancy, 20*(1), 98-114. doi:10.1111/inf.12063

- Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2014). A matter of timing: Enhancing positive change for the developing brain. *Journal of Zero to Three: National Center for Infants, Toddlers and Families*, 34(3), 4-9.
- Gleason, M.M., Fox, N.A., Drury, S.S., Smyke, A.T., Nelson, C.A., & Zeanah, C.H. (2014). Indiscriminate behaviors in young children with a history of institutional care. *Pediatrics*, 133 (3), e657-e655.
- Guyer, A.E., Benson, B., Choate, V.R., Bar-Haim, Y., Pérez-Edgar, K., Jarcho, J.M., Pine, D.S., Ernst, M., Fox, N.A., and Nelson, E.E. (2014). Lasting association between early-childhood temperament and late adolescent reward-circuitry response to peer feedback. *Development and Psychopathology*, 26(1), 229-43. doi:10.1017/S0954579413000941
- Henderson, H.A., Pine, D.S., & Fox, N.A. (2014). Behavioral inhibition and developmental risk: A dual-processing perspective. *Neuropsychopharmacology Reviews*, 40(1), 207-224. . doi:10.1038/npp.2014.189
- Jarcho, J.M., Fox, N.A., Pine, D.S., Leibenluft, E., Shechner, T., Degnan, K.A., Perez-Edgar, K., & Ernst, M. (2014) Enduring influence of early temperament on neural mechanisms mediating attention-emotion conflict in adults. *Depress Anxiety*, 31(1), 53-62. doi:10.1002/da.22140.
- Lahat, A., Lamm, C., Chronis-Tuscano, A., Pine, D.S., Henderson, H.A., & Fox, N.A. (2014). Early behavioral inhibition and increased error monitoring predict later social phobia symptoms in childhood. *Journal of the American Academy of Child and Adolescent Psychiatry*, 53(4), 447-455. doi:10.1016/j.jaac.2013.12.019
- Lahat, A., Walker, O.L., Lamm, C., Degnan, K.A., Henderson, H.A., & Fox, N.A. (2014). Cognitive conflict links behavioural inhibition and social problem solving during social exclusion in childhood. *Infant and Child Development*, 23(3), 273-282. doi:10.1002/icd.1845
- Lamm, C., Benson, B., Guyer, A.E., Pérez-Edgar, K., Fox, N.A., Pine, D.S., & Ernst, M. (2014). Longitudinal study of striatal activation to reward and loss anticipation from mid-adolescence into late adolescence/early adulthood. *Brain and Cognition*, 89, 51-60. doi:10.1016/j.bandc.2013.12.003
- Lamm, C., Pine, D.S., and Fox, N.A. (2014). Impact of negative affectively charged stimuli and response style on cognitive-control-related neural activation: An ERP study. *Brain and Cognition*, 83(2), 234-243. doi:10.1016/j.bandc.2013.07.012
- Levin, A.R., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2014). Motor outcomes in children exposed to early psychosocial deprivation. *The Journal of Pediatrics*, 164(1), 123-129. doi:10.1016/j.jpeds.2013.09.026

- Lewis-Morrarty, E., Degnan, K.A., Chronis-Tuscano, A., Pine, D.S., Henderson, H.A., & Fox, N.A. (2014). Infant attachment security and early behavioral inhibition interact to predict adolescent social anxiety symptoms. *Child Development, 86*(2), 598-613. doi:10.1111/cdev.12336
- Mai, X., Xu, L., Shao, J., Zhao, Z., Lamm, C., Fox, N.A., Nelson, C.A., & Lozoff, B. (2014). Sounds elicit relative left frontal alpha activity in 2-month-old infants. *International Journal of Psychophysiology, 94*, 287-291. doi:10.1016/j.ijpsycho.2014.09.008
- McLaughlin, K.A., Sheridan, M.A., Winters, W., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2014). Widespread reductions in cortical thickness following severe early-life deprivation: A neurodevelopmental pathway to attention-deficit/hyperactivity disorder. *Biological Psychiatry, 76*(8), 629-638.
- Naim, R., Wald, I., Lior, A., Pine, D.S., Fox, N.A., Sheppes, G., Halpern, P., & Bar-Haim, Y. (2014). Perturbed threat monitoring following a traumatic event predicts risk for post-traumatic stress disorder. *Psychological Medicine, 44*, 2077-2084. doi:10.1017/S0033291713002456
- Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2014). Forgotten children: What Romania can tell us about institutional care. *Foreign Affairs*, December 12, 2014.
- Perez-Edgar, K., Hardee, J., Guyer, A.E., Benson, B., Nelson, E.E., Gorodetsky, E., Goldman, D., Fox, N.A., Pine, D.S., & Ernst, M. (2014). DRD4 and striatal modulation of the link between childhood BI and adolescent anxiety. *Social, Cognitive, and Affective Neuroscience 9*(4), 445-53. doi:10.1093/scan/nst001
- Reeb-Sutherland, B.C, Rankin Williams, L., Degnan, K.A., Pérez-Edgar, K., Chronis-Tuscano, A., Leibenluft, E., Pine, D.S., Pollak, S.D., and Fox, N.A. (2014). Identification of emotional facial expressions among behaviorally inhibited adolescents with lifetime anxiety disorders. *Cognition and Emotion, 29*(2), 372-382. doi: 10.1080/02699931.2014.913552
- Reynolds, E.K., MacPherson, L., Schwartz, S., Fox, N.A., Lejuez, C.W. (2014). Analogue study of peer influence on risk-taking behavior in older adolescents. *Prevention Science, 15*(6), 842-849. doi: 10.1007/s11121-013-0439-x
- Roy, A.K., Benson, B.E., Degnan, K.A., Perez-Edgar, K., Pine, D.S., Fox, N.A., & Ernst, M. (2014). Alterations in amygdala functional connectivity reflect early temperament. *Biological Psychology, 103*, 248-254. doi:10.1016/j.biopsycho.2014.09.007
- Shechner, T., Hong, M., Britton, J.C., Pine, D.S., & Fox, N.A. (2014). Fear conditioning and extinction across development: Evidence from human studies and animal models. *Biological Psychology, 100*, 1-12. doi:10.1016/j.biopsycho.2014.04.001

Silk, J.S., Redcay, E., & Fox, N.A. (2014). Contributions of social and affective neuroscience to our understanding of typical and atypical development. *Developmental cognitive neuroscience*, 8, 1.

Tibu, F., Humphreys, K.L., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2014). Psychopathology in young children in two types of foster care following institutional rearing, 35(2), 123-131. *Infant Mental Health Journal*. doi:10.1002/imhj.21428

Walker, O. L., Henderson, H. A. Degnan, K. A., Penela, E., & Fox, N.A. (2014). Associations between behavioral inhibition and children's social problem-solving behavior during social exclusion. *Social Development*, 23, 487-501. doi: 10.1111/sode.12053

2015:

Almas, A.N., Degnan, K.A., Walker, O.L., Radulescu, A., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2015). The effects of early institutionalization and foster care intervention on children's social behaviors at age 8. *Social Development*, 24(2), 225-239.

Barker, T.V., Reeb-Sutherland, B., Degnan, K.A., Walker, O.L., Chronis-Tuscano, A., Henderson, H.A., Pine, D.S., & Fox, N.A. (2015). Contextual startle responses moderate the relation between behavioral inhibition and anxiety in middle childhood. *Psychophysiology*, 52(11), 1544-1599. doi:10.1111/psyp.12517

Bick, J., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2015). Early deprivation, atypical brain development, and internalizing symptoms in late childhood. *Neuroscience*, 342, 140-153. doi:10.1016/j.neuroscience.2015.09.026

Bick, J., Zhu, T., Stamoulis, C., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2015). Effect of early institutionalization and foster care on long-term white matter development: a randomized clinical trial. *JAMA Pediatrics*, 169(3), 211-219.

Brett, Z., Humphreys, K., Smyke, A.T., Gleason, M.M., Nelson, C.A., Zeanah, C.H., Fox, N.A., & Drury, S.S. (2015). Serotonin transporter linked polymorphic region (5-HTTLPR) genotype moderates the longitudinal impact of early caregiving on externalizing behavior. *Development and Psychopathology*, 27(1), 7-18. doi:10.1017/S0954579414001266

Brett, Z., Sheridan, M., Humphreys, K., Smyke, A.S., Gleason, M.G., McGoron, L., Miron, D., Zeanah, C.H., Fox, N.A., Nelson, C.A., & Drury, S.S. (2015). A neurogenetics approach to defining differential susceptibility to institutional care. *International Journal of Developmental Biology*, 39(2), 150-160. doi: 10.1177/0165025414538557

Cannon, E.N., Simpson, E.A., Fox, N.A., Vanderwert, R.E., Woodward, A.L., & Ferrari, P.F. (2015). Relations between infants' emerging reach-grasp competence and event-related desynchronization in EEG. *Developmental Science*, 19(1), 50-62. doi:10.1111/desc.12295

- Degnan, K.A., Hane, A.A., Henderson, H.A., Walker, O.L., Ghera, M., & Fox, N.A. (2015). Emergent patterns of risk for psychopathology: The influence of infant temperament and maternal caregiving on trajectories of social reticent. *Development and Psychopathology*, 27(4 pt 1), 1163-1178. doi:10.1017/S0954579415000747
- Erlich, K.B., Gerson, S.A., Vanderwert, R.E., Cannon, E., & Fox, N.A. (2015). Hypervigilance to rejecting stimuli in rejection sensitive individuals: Behavioral and neurocognitive evidence. *Personality and Individual Differences*, 85, 7-12. doi:10.1016/j.paid.2015.04.023
- Frenkel, T.I., Fox, N.A., Pine, D.S., Walker, O.L., Degnan K.A., & Chronis-Tuscano, A. (2015). Early childhood behavioral inhibition, adult psychopathology and the buffering effects of adolescent social networks: A twenty-year prospective study. *The Journal of Child Psychology and Psychiatry*, 56(10), 1065-1073. doi:10.1111/jcpp.12390
- Gleason, M.M., Fox, N.A., Drury, S.S., Smyke, A.T., Nelson, C.A., and Zeanah, C.H. (2015). Indiscriminate behaviors in previously institutionalized young children. *Pediatrics*, 133(3), e657-e655.
- Guyer, A.E., Jarcho, J.M., Pérez-Edgar, K., Degnan, K.A., Pine, D.S., Fox, N.A., & Nelson, E.E. (2015). Temperament and parenting styles in early childhood differentially influence neural response to peer evaluation in adolescence. *Journal of Abnormal Child Psychology*, 43(5), 863-874. doi:10.1007/s10802-015-9973-2
- Humphreys, K.L., Gleason, M.M., Drury, S.S., Miron, D.M., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2015). Effects of early deprivation on psychopathology at age 12 years: Follow-up of a randomized controlled trial. *The Lancet Psychiatry*, 2, 625-634.
- Humphreys, K.L., McGoron, L., Sheridan, M.A., McLaughlin, K.A., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2015). High quality foster care mitigates callous-unemotional traits following early deprivation in boys: A randomized controlled trial. *Journal of the American Academy of Child and Adolescent Psychiatry*, 54(12), 977-983. doi:10.1016/j.jaac.2015.09.010
- Humphreys, K.L., Zeanah, C.H., Nelson, C.A., Fox, N.A., & Drury, S.S. (2015). Serotonin transporter (*5HTTLPR*) genotype moderates the longitudinal impact of atypical attachment on externalizing behavior. *Journal of Developmental and Behavioral Pediatrics*, 36(7), 489-496.
- Levin, A.R., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2015). Social communication difficulties and autism in previously institutionalized children. *Journal of the American Academy of Child and Adolescent Psychiatry*, 54(2), 108-115.
- McLaughlin, K.A., Sheridan, M.A., Tibu, F., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2015). Causal effects of the early caregiving environment on development of stress response systems in children. *Proceedings of the National Academy of Sciences*, 112(18), 298-313.

Moulson, M.C., Shutts, K., Fox, N.A., Zeanah, C.H., Spelke, E., & Nelson, C.A. (2015). Effects of early institutionalization on the development of emotion processing: A case for *relative sparing*? *Developmental Science*, *18*(2), 298-313.

Penela, E.C., Walker, O.L., Degnan, K.A., Fox, N.A., & Henderson, H.A. (2015). Early behavioral inhibition and emotion regulation: Pathways toward social competence in middle childhood. *Child Development*, *86*(4), 1227-1240. doi:10.1111/cdev.12384

Pine, D.S., & Fox, N.A. (2015). Childhood antecedents and risk for adult mental disorders. *Annual Review of Psychology* *66*(1), 459-485. doi:10.1146/annurev-psych-010814-015038

Stamoulis, C., Vanderwert, R., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2015). Early psychosocial neglect adversely impacts developmental trajectories of brain oscillations and their interactions. *Journal of Cognitive Neuroscience*, *27*(12), 2512-2528. doi:10.1162/jocn_0087

Troller-Renfree, S.V., Barker, T.V., Pine, D.S., & Fox, N.A. (2015). Cognitive functioning in socially anxious adults: insights from the NIH Toolbox Cognition Battery. *Frontiers in Psychology*, *6*: 764. doi:10.3389/fpsyg.2015.00764

Troller-Renfree, S.V., McDermott, J.M., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2015). The effects of early foster care intervention on attention biases in previously institutionalized children in Romania. *Developmental Science*, *18*(5), 713-22.

Thorpe, S.G., Cannon, E.N., & Fox, N.A. (2015). Spectral and source structural development of mu and alpha rhythms from infancy through adulthood. *Journal of Clinical Neurophysiology*, *127*(1), 254-269. doi:10.1016/j.clinph.2015.03.004.

Vanderwert, R.E., Simpson, E.A., Paukner, A., Sclafani, V., Suomi, S.J., Fox, N.A., & Ferrari, P.F. (2015). Early experience affects neural activity to affiliative facial gesturing in a newborn nonhuman primate model. *Developmental Neuroscience*, *37*, 243-252. doi:10.1159/000381538

Walker, O.L., Degnan, K.A., Fox, N.A., & Henderson, H.A. (2015). Early social fear in relation to play with an unfamiliar peer: Actor and partner effects. *Developmental Psychology*, *51*(11), 1588-1596. doi:10.1037/a0039735

Yoo, K.H., Cannon, E.N., Thorpe, S.G., & Fox, N.A. (2015). Desynchronization in EEG during perception of means-end actions and relations with infants' grasping skill. *British Journal of Developmental Psychology*, *34*(1), 24-37. doi:10.1111/bjdp.12115.

2016:

Almas, A.N., Degnan, K.A., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2016). IQ at age 12 following a history of institutional care: Findings from the Bucharest Early Intervention Project. *Developmental Psychology*, *52*(11), 1858-1866.

- Filippi, C., Cannon, E.N., Fox, N.A., Thorpe, S., Ferrai, P.F., & Woodward, A. (2016). Motor system activation predicts goal imitation in 7-month-old infants. *Psychological Science*, 27(5), 675-684.
- Fox, N.A., Bakermans-Kranenburg, M., Yoo, K., Bowman, L.C., Cannon, E.N., Vanderwert, R., Ferrari, P., & van IJzendoorn, M. (2016). Assessing human mirror neuron activity with EEG Mu Rhythm: A Meta-Analysis. *Psychological Bulletin*, 142(3), 291-313. doi:10.1037/bul00000031.
- Haas, S.A., Amso, D., & Fox, N.A. (2016). The effects of emotion priming on visual search in socially anxious adults. *Cognition and Emotion*, 31(5), 1041-1054.
- Hane, A.A., & Fox, N.A. (2016). Early caregiving and human biobehavioral development: A comparative physiology approach. *Opinion in Behavioral Sciences*, 7, 82-90. doi:10.1016/j.cobeha.2015.12.002
- Humphreys, K.L., Esteves, K., Zeanah, C.H., Fox, N.A., Nelson, C.A., & Drury, S.S. (2016). Accelerated telomere shortening: Tracking the lasting impact of early institutional care at the cellular level. *Psychiatry Research*, 246, 95-100.
- Jarcho, J., Davis, M., Shechnet, T., Degnan, K., Henderson, H., Stoddard, J., Fox, N.A., Leibenluft, E., Pine, D., & Nelson, E. (2016). Early childhood social reticence predicts brain function in preadolescent youths during distinct forms of peer evaluation. *Psychological Science*, 27(6), 821-835.
- Lahat, A., Benson, B., Pine, D., Fox, N.A., & Ernst, M. (2016). Neural responses to reward in childhood: Relations to early behavioral inhibition and social anxiety. *Social Cognitive and Affective Neuroscience*, 1-9.
- Michalska, K.J., Shechner, T., Hong, M., Britton, J.C., Leibenluft, E., Pine, D.S., & Fox, N.A. (2016). A developmental analysis of threat/safety learning and extinction recall during middle childhood. *Journal of Experimental Child Psychology*, 146, 95-105. doi:10.1016/j.jecp.2016.01.008
- Non, A.L., Hollister, B.M., Humphreys, K.L., Childebayeva, A., Esteves, K., Zeanah, C.H., Fox, N.A., Nelson, C.A., & Drury, S.S. (2016). DNA methylation at stress-related genes is associated with exposure to early-life institutionalization. *American Journal of Physical Anthropology*, 161(1), 84-93.
- Nozadi, S., Troller-Renfree, S., White, L., Frenkel, T., Degnan, K.A., Bar-Haim, Y., Pine, D., & Fox, N.A. (2016). The moderating role of attention biases in understanding the link between behavioral inhibition and anxiety. *Journal of Experimental Psychopathology*, 7(3), 451-465. doi:10.5127/jep.052515

- Sylvester, C.M., Barch, D.M., Harms, M.P., Belden, A.C., Oakberg, T.J., Gold, A.L., White, L.K., Benson, B.E., Troller-Renfree, S.V., Degnan, K.A., Henderson, H.A., Luby, J.L., Fox, N.A., Pine, D.S. (2016). Early childhood behavioral inhibition predicts cortical thickness in adulthood. *Journal of American Academy of Child and Adolescent Psychiatry*, 55(2):122-9.e1. doi:10.1016/j.jaac.2015.11.007.
- Tibu, F., Sheridan, M., McLaughlin, K.A., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2016). Disruptions of working memory and inhibition mediate the association between exposure to institutionalization and symptoms of Attention Deficit/Hyperactivity Disorder. *Psychological Medicine*, 46(3), 529-541.
- Tibu, F., Sheridan, M.A., McLaughlin, K., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2016). Reduced working memory mediates the link between early institutional rearing and symptoms of ADHD at 12 years. *Frontiers in Psychology*, 7, 1850.
- Troller-Renfree, S.V., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2016). Deficits in error monitoring are associated with externalizing but not internalizing behaviors among children with a history of institutionalization. *Journal of Child Psychology and Psychiatry*, 57(10), 1145-1153.
- Vanderwert, R.E., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2016). Normalization of EEG activity among previously institutionalized children placed into foster care: A 12-year follow-up of the Bucharest Early Intervention Project. *Developmental Cognitive Neuroscience*, 17, 68-75.
- White, L.K., Suway, J., Pine, D.S., Field, A., Lester, K., Muris, P., Bar-Haim, Y., & Fox, N.A. (2016). The cognitive and emotional effects of cognitive bias modification in interpretations in behaviorally inhibited youth. *Journal of Experimental Psychopathology*, 7, 499-510.
- 2017:
- Bick, J., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2017). Early deprivation, atypical brain development, and internalizing symptoms in late childhood. *Neuroscience*, 342, 140-153.
- Bick, J., Luyster, R., Fox, N.A., & Zeanah, C.H. (2017). Effects of early institutionalization on emotion processing in 12-year-old youth. *Development and Psychopathology* 29, 1749-1761.
- Bick, J., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2017). Memory and executive functioning in 12-Year-Old children with histories of institutional rearing. *Child Development*, 89(2), 495-508.
- Buzzell, G.A., Richards, J.E., White, L.K., Barker, T.V. Pine, D.S., & Fox, N.A. (2017). Development of the error-monitoring system from ages 9-35: Unique insight provided by MRI-constrained source localization of EEG. *NeuroImage*, 157, 13-26.

- Buzzell, G.A., Troller-Renfree, S.V., Barker, T.V., Bowman, L.C., Chronis-Tuscano, A., Henderson, H.A., Kagan, J., Pine D.S., & Fox, N.A. (2017). A neurobehavioral mechanism linking behaviorally inhibited temperament and later adolescent social anxiety. *Journal of the American Academy of Child & Adolescent Psychiatry*, 56(12), 1097-1105.
- Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2017). The effects of psychosocial deprivation on attachment: Lessons from the Bucharest Early Intervention Project. *Psychodynamic Psychiatry*, 45(4), 441-450.
- Frenkel, T., Koss, K., Donzella, B., Frenn, K., Lamm, C., Fox., N.A., & Gunnar, M. (2017). ADHD Symptoms in Post-Institutionalized Children are Partially Mediated by Altered Frontal EEG Asymmetry. *Journal of Abnormal Child Psychology* 45(5), 857-869.
- Humphreys, K.L., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2017). Signs of reactive attachment disorder and disinhibited social engagement disorder at age 12 years: Effects of institutional care history and high-quality foster care. *Development and Psychopathology*, 29(2), 675-684.
- Nozadi, S.S., White, L.K., Degnan, K.A., & Fox, N.A. (2017). Longitudinal relations between behavioral inhibition and social information processing: Moderating role of maternal supportive reactions to children's emotions. *Social Development*, 27(3), 571-585.
- Stamoulis, C., Vanderwert, R., Zeanah, C.H., Fox, N.A., & Nelson C.A. (2017). Neuronal networks in the developing brain are adversely modulated by early psychosocial neglect. *Journal of Neurophysiology*, 118(4), 2275-2288. doi: 10.1152/jn.00014.2017
- Troller-Renfree, S.V., McLaughlin, K.A., Sheridan, M.A., Nelson, C.A., Zeanah, Z.H., & Fox, N.A. (2017). The beneficial effects of a positive attention bias amongst children with a history of psychosocial deprivation. *Biological Psychology*, 122, 110-120.
- Troller-Renfree, S., Zeanah, C.H., Nelson, C.A., & Fox, N.A. (2017). Neural and cognitive factors influencing the emergency of psychopathology: Insights from The Bucharest Early Intervention Project. *Child Development Perspectives*, 12(1), 28-33.
- White, L., Hendersen, H., Walker, O., Leibenluft, E., Pine, D.S., Degnan, K.A., Perez-Edgar, K., Shechner, T., Bar-Haim, Y., & Fox, N.A. (2017). Developmental relations among behavioral inhibition, anxiety, and attention biases to threat and positive information. *Child Development*, 88, 141-155.
- White, L., Sequeira, S., Britton, J., Brotman, M., Gold, A., Berman, E., Towbin, K., Abend, R., Fox, N.A., Bar-Haim, Y., Leibenluft, E., & Pine, D.S. (2017). Complementary features of attention bias modification therapy and cognitive behavioral therapy in pediatric anxiety disorders. *American Journal of Psychiatry*, 174, 775-784.

Young, A., Luyster, R.J., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2017). The effects of early institutionalization on emotional face processing: Evidence for sparing via an experience-dependent mechanism. *British Journal of Developmental Psychology*, 35(3), 493-453.

Zeanah, C.H., Humphreys, K.L., Fox, N.A., & Nelson, C.A. (2017). Alternatives for abandoned children: Insights from the Bucharest Early Intervention Project. *Current Opinion in Psychology*, 15, 182-188.

2018:

Almas, A.N., Papp, L.J., Woodbury, M.R., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2018). The impact of caregiving disruptions experienced by previously institutionalized children on multiple outcomes in late childhood. *Child Development*. doi:10.1111/cdev.13169

Barker, T.V., Buzzell, G.A., & Fox, N.A. (2018). Approach, avoidance and the detection of conflict in the development of behavioral inhibition. *New Ideas in Psychology*. doi:10.1016/j.newideapsych.2018.07.001

Barker, T.V., Troller-Renfree, S.V., Bowman, L.C., Pine, D.S., Fox, N.A. (2018). Social influences of error monitoring in adolescent girls. *Psychophysiology*, 55. doi:10.1111/psyp.13089

Bimbi M., Festante F., Coudé G., Vanderwert R.E., Fox N.A., & Ferrari P.F. (2018). Simultaneous scalp recorded EEG and local field potentials from monkey ventral premotor cortex during action observation and execution reveals the contribution of mirror and motor neurons to the mu-rhythm. *NeuroImage*.75, 22-31. doi:10.1016/j.neuroimage.2018.03.037.

Bowers, M.E., Buzzell, G.A., Bernat, E.M., Fox, N.A., & Barker, T.V. (2018). Time-frequency approaches to investigating changes in feedback processing during childhood and adolescence. *Psychophysiology*, 55(10), e13208.

Cross, D., Vance, L.A., Kim, Y.J., Ruchard, A.L., Fox, N.A., Jovanovic, T., & Bradley, B. (2018). Trauma exposure, PTSD, and parenting in a community sample of low-income, predominantly African American mothers and children. *Psychological Trauma: Theory, Research, Practice, and Policy*. doi:10.1037/tra0000264

Guyon-Harris, K. L., Humphreys, K.L., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2018). Course of disinhibited social engagement disorder from early childhood to early adolescence. *Journal of the American Academy of Child and Adolescent Psychiatry*, 59(7), 329-335.

Humphreys, K.L., Miron, D., McLaughlin, K.A., Sheridan, M.A., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2018). Foster care promotes adaptive functioning in early adolescence among children who experienced severe, early deprivation. *Journal of Child Psychology and Psychiatry*, 59(7), 811-821. doi:10.1111/jcpp.12895

- Johnson, D. E., Tang, A., Almas, A.N., Degnan, K.A., McLaughlin, K.A., Nelson, C.A., Fox, N.A., Zeanah, C.H., & Drury, S.S. (2018). Caregiving disruptions affect growth and pubertal development in early adolescence in institutionalized and fostered Romanian children: A randomized clinical trial. *The Journal of Pediatrics*, *203*, 345-353. doi:10.1016/j.jpeds.2018.07.027
- Kopetz, C., Woerner, J.I., MacPherson, L. Lejuez, C.W., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2018). Early psychosocial deprivation and adolescent risk-taking: The role of motivation and executive control. *Journal of Experimental Psychology: General*. doi:10.1037/xge0000486
- Lamm, C., Troller-Renfree, S., Zeanah, C.H., Nelson, C.A., & Fox, N.A. (2018). Impact of early institutionalization on attention mechanisms underlying the inhibition of a planned action. *Neuropsychologia*, *117*, 339-346. doi:10.1016/j.neuropsychologia.2018.06.008
- MacNeill, L.A., Ram, N., Bell, M.A., Fox, N.A., & Perez-Edgar, K. (2018). Trajectories of infants' biobehavioral development: Timing and rate of A-not-B performance gains and EEG maturation. *Child Development*, 1-14.
- Miller, N.V., Degnan, K.A., Hane, A.A., Fox, N.A., & Chronis-Tuscano, A. (2018). Infant temperament reactivity and early maternal caregiving: Independent and interactive links to later childhood ADHD symptoms. *Journal of Child Psychology and Psychiatry*, *60*, 43-53.
- Nozadi, S.S., White, L.K., Degnan, K.A., & Fox, N.A. (2018). Longitudinal relations between behavioral inhibition and social information processing: Moderating role of maternal supportive reactions to children's emotions. *Social Development*, *27*(3), 1-12.
- Salo, V.C., Ferrari, P.F., Fox, N.A. (2018). The role of the motor system in action understanding and communication: Evidence from human infants and non-human primates. *Developmental Psychobiology*, *0*(0), 1-12. doi:10.1002/dev.21779
- Sheridan, M.A., McLaughlin, K.A., Winter, W., Fox, N., Zeanah, C.H., & Nelson, C.A. (2018). Early deprivation disrupts development of associative learning leading to depression and social problems in adolescence. *Nature Communications*, *9*(1), 2216. doi:10.1038/s41467-018-04381-8
- Tang, A., Slopen, N., Nelson, C.A., Zeanah, C.H., Georgieff, M.K., & Fox, N.A. (2018). Catch up growth, metabolic and cardiovascular risk among post-institutionalized Romanian adolescents. *Pediatric Research*, *84*(6), 842-848
- Wade, M., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2018). Effect of foster care intervention on trajectories of general and specific psychopathology among children with histories of institutional rearing: A randomized clinical trial. *JAMA Psychiatry*, *75*(11), 1137-1145. doi:10.1001/jamapsychiatry.2018.2556

Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2018). Recovery from severe deprivation: The Bucharest Early Intervention Project. *Zero to Three Journal*, 38(4): 60-62.

2019:

Abend, R., Swetlitz, C., White, L.K., Shechner, T., Bar-Haim, Y., Filippi, C., Kircanski, K., Haller, S.P., Benson, B.E., Chen, G., Leibenluft, E., Fox, N.A., & Pine, D.S. (2019). Levels of early-childhood behavioral inhibition predict distinct neurodevelopmental pathways to pediatric anxiety. *Psychological Medicine*, 1-11.
doi:10.1017/S0033291718003999

Barker, T.V., Buzzell, G.A., & Fox, N.A. (2019). Approach, avoidance, and the detection of conflict in the development of behavioral inhibition. *New Ideas in Psychology*.
<https://doi.org/10.1016/j.newideapsych.2018.07.001>

Buzzell, G.A., Barker, T.V., Troller-Renfree, S.V., Bernat, E.M., Bowers, M.E., Morales, S., ... Fox, N.A. (2019). Adolescent cognitive control, theta oscillations, and social motivation. *NeuroImage*, 198, 13-30. doi:[10.1016/j.neuroimage.2019.04.077](https://doi.org/10.1016/j.neuroimage.2019.04.077)

Clarkson, T., Eaton, N.R., Nelson, E.E., Fox, N.A., Leibenluft, E., Pine, D.S., Heckelman, A., Sequeira, S.L., & Jarcho, J.M. (2019). Early childhood social reticence and neural response to peers in preadolescence predict social anxiety symptoms in mid-adolescence. *Depression and Anxiety*, 36(8) 676-689.

Debnath, R., Salo, V.C., Buzzell, G.A., Yoo, K.H., & Fox, N.A. (2019). Mu rhythm desynchronization is specific to action execution and observation: Evidence from time-frequency and connectivity analysis. *NeuroImage*, 184, 496-507.
doi:10.1016/j.neuroimage.2018.09.053

Debnath, R., Tang, A., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2019, Epub ahead of print). Long-term effects of institutional rearing, foster care intervention and disruptions in care on brain electrical activity in adolescence. *Developmental Science*, e12872. Doi: 10.1111/desc.12872

Festante, F., Ferrari, P.E., Thorpe, S.G., Buchanan, R.W., & Fox, N.A. (2019). Intranasal oxytocin enhances EEG mu rhythm desynchronization during execution and observation of social action: An exploratory study. *Psychoneuroendocrinology*, 111, 496-507.

Filippi, C.A., Subar, A.R., Sachs, J.F., Kircanski, K., Buzzell, G., Pagliaccio, D., Abend, R., Fox, N.A., Leibenluft, E. & Pine, D.S. (2019). Developmental pathways to social anxiety and irritability: The role of the ERN. *Development and psychopathology*, 1-11.

Guyon-Harris, K.L., Humphreys, K.L., Degnan, K., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2019). A prospective study of reactive attachment disorder following early institutional care: Considering variable- and person-centered approaches. *Attachment and Human Development*. 21(2), 95-110. doi: 10.1080/14616734.2018.1499208.

- Guyon-Harris, K.L., Humphreys, K.L., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2019). Signs of attachment disorders and social functioning among early adolescents with a history of institutional care. *Child Abuse and Neglect*, 88, 96-106.
- Guyon-Harris, K. L., Humphreys, K. L., Miron, D. M., Gleason, M. M., Nelson, C. A., Fox, N. A., & Zeanah, C. H. (2019). Disinhibited social engagement disorder in early childhood and competence in early adolescence. *Journal of Abnormal Child Psychology*, 47(10), 1735-1745. doi:10.1007/s10802-019-00547-0.
- Harrewijn, A., Buzzell, G.A., Debnath, R., Leibenluft, E., Pine, D.S., & Fox, N.A. (2019). Frontal alpha asymmetry moderates the relations between behavioral inhibition and social-effect ERN. *Biological Psychology*, 141, 10-16. doi:10.1016/j.biopsycho.2018.12.014
- Jarcho, J.M., Grossman, H.Y., Guyer, A.E., Quarmley, M., Smith, A.R., Fox, N.A., Leibenluft, E., Pine, D.S., & Nelson, E.E. (2019). Connecting childhood wariness to adolescent social anxiety through the brain and peer experiences. *Journal of Abnormal Child Psychology*, 1-12. doi: 10.1007/s/10802-019-00543-4
- Kopetz, C., Woerner, J.I., MacPherson, L., Lejuez, C.W., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2019). Early psychosocial deprivation and adolescent risk-taking: The role of motivation and executive control. *Journal of Experimental Psychology: General*, 148(2), 388-399. doi:10.1037/xge0000486
- Miller, N.V., Hane, A.A., Degnan, K.A., Fox, N.A., Chronis-Tuscano, A. (2019). Investigation of a developmental pathway from infant anger reactivity to childhood inhibitory control and ADHD symptoms: interactive effects of early maternal caregiving. *Journal of Child Psychology and Psychiatry*. doi:10.1111/jcpp.13047
- Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2019). How early experience shapes human development: The case of psychosocial deprivation. *Neural Plasticity*, 2019, 1-12. doi:10.1155/2019/1676285
- Nozadi, S.S., Henderson, H.A., Degnan, K.A., & Fox, N.A. (2019). Longitudinal patterns of anger reactivity and risk-taking: The role of peer-context. *Social Development*, 2019, 1-15.
- Slopen, N., Tang, A., Nelson, C.A., Zeanah, C.H., McLaughlin, K.A., McDade, T., & Fox, N.A. (2019). The consequences of foster care versus institutional care in early childhood on adolescent cardiometabolic and immune markers: Results from a randomized control trial. *Psychosomatic Medicine*, 81, 449-457.
- Smith, A.R., White, L.K., Leibenluft, E., McGlade, A.L., Heckelman, A.C., Haller, S.P., Buzzell, G.A., Fox, N.A., Pine, D.S. (2019). The heterogeneity of anxious phenotypes: Neural responses to errors in treatment-seeking anxious and behaviorally-inhibited youth.

Journal of the American Academy of Child and Adolescent Psychiatry, S0890-8567(19), 30347-30348. doi:10.1016/j.jaac.2019.05.014

- Tang, A., Fox, N.A., Nelson, C.A., Zeanah, C.H., & Slopen, N. (2019). Externalizing trajectories predict elevated inflammation among adolescents exposed to early institutional rearing: A randomized clinical trial. *Psychoneuroendocrinology*, *109*, 104408. doi: 10.1016/j.psyneuen.2019.104408
- Troller-Renfree, S.V., Buzzell, G., Salo, V., Bowers, M., Forman-Alberti, A., Smith, E., Papp, L., McDermott, J.M., Pine, D.S., & Fox, N.A. (2019). Development of inhibitory control during childhood and its relations to early temperament and later social anxiety: Unique insights provided by latent growth modeling and signal detection theory. *The Journal of Child Psychology and Psychiatry*. doi:10.31234/osf.io/tj4hn
- Troller-Renfree, S.V., Buzzell, G.A. Pine, D.S., Henderson, H., & Fox, N.A. (2019). Consequences of not planning ahead: reduced proactive control moderates longitudinal relations between behavioral inhibition and anxiety. *Journal of the American Academy of Child & Adolescent Psychiatry*. doi:10.1016/j.jaac.2018.06.040
- Vidal-Ribas, P., Benson, B., Vitale, A.D., Keren, H., Harrewijn, A., Fox, N.A., Pine, D.S., & Stringaris, A. (2019). Bidirectional Associations Between Stress and Reward Processing in Children and Adolescents: A Longitudinal Neuroimaging Study. *Biological Psychiatry*, *4*, 893-901.
- Wade, M., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2019). Long-term effects of institutional rearing, foster care, and brain activity on memory and executive functioning. *Proceedings of the National Academy of Sciences*, *116*(5), 1808-1813. doi:10.1073/pnas.1809145116
- Wade, M., Fox, N.A., Zeanah, C.H., Nelson, C.A., and Drury, S.S. (2019). Telomere length and psychopathology: Specificity and direction of effects within the Bucharest Early Intervention Project. *JAACAP*, *pii: S0890-8567(19)*, 30136-4.
- Wade, M., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2019). Stress sensitization among severely neglected children and protection by social enrichment. *Nature Communications*, *10*(1), 5771. doi:10.1038/s41467-019-13622-3.
- 2020:
- Abend, R., Swetlitz, C., White, L. K., Shechner, T., Bar-Haim, Y., Filippi, C., Kircanski, K., Haller, S. P., Benson, B. E., Chen, G., Leibenluft, E., Fox, N. A., & Pine, D. S. (2020). Levels of early-childhood behavioral inhibition predict distinct neurodevelopmental pathways to pediatric anxiety. *Psychological medicine*, *50*(1), 96–106. <https://doi.org/10.1017/S0033291718003999>
- Almas, A.N., Papp, L.J., Woodbury, M.R., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2020). The impact of caregiving disruptions experienced by previously institutionalized children on multiple outcomes in late childhood. *Child Development*, *91*(1), 96-109. Doi: 10.1111/cdev.13169.

- Bowers, M. E., Buzzell, G. A., Salo, V., Troller-Renfree, S. V., Hodgkinson, C. A., Goldman, D., Gorodetsky, E., Martin McDermott, J., Henderson, H. A., & Fox, N. A. (2020). Relations between catechol-O-methyltransferase Val158Met genotype and inhibitory control development in childhood. *Developmental psychobiology*, 62(2), 181–190. <https://doi.org/10.1002/dev.21901>
- Bowers, M.E., Reider, L.B., Morales, S., Buzzell, G.A., Miller, N., Troller-Renfree, S.V., Pine, D.S., Henderson, H.A., & Fox, N.A. (2020). Differences in Parent and Child Report on the Screen for Child Anxiety-Related Emotional Disorders (SCARED): Implications for Investigations of Social Anxiety in Adolescents. *Journal of abnormal child psychology*, 48(4), 561–571. <https://doi.org/10.1007/s10802-019-00609-3>
- Bruce, J., Pears, K.C., McDermott, J.M., Fox, N.A., & Fisher, P.A. (2020). Effects of a school readiness intervention on electrophysiological indices of external response monitoring in children in foster care. *Development and psychopathology*, 1–11. Advance online publication. <https://doi.org/10.1017/S0954579420000164>
- Buzzell, G.A., Morales, S., Bowers, M.E., Troller-Renfree, S.V., Chronis-Tuscano, A., Pine, D.S., Henderson, H.A., & Fox, N.A. (2020). Inhibitory control and set shifting describe different pathways from behavioral inhibition to socially anxious behavior. *Developmental Science*, e13040.
- Buzzell, G. A., Troller-Renfree, S.V., Wade, M., Debnath, R., Morales, S., Bowers, M.E., Zeanah, C.H., Nelson, C.A., & Fox, N.A. (2020). Adolescent cognitive control and mediofrontal theta oscillations are disrupted by neglect: Associations with transdiagnostic risk for psychopathology in a randomized controlled trial. *Developmental cognitive neuroscience*, 43, 100777.
- Colich, N.L., Sheridan, M.A., Humphreys, K.L., Wade, M., Tibu, F., Nelson, C.A., Zeanah, C.H., Fox, N.A., & McLaughlin, K.A. (2020). Heightened sensitivity to the caregiving environment during adolescence: implications for recovery following early-life adversity. *Journal of child psychology and psychiatry, and allied disciplines*, 10.1111/jcpp.13347.
- Debnath, R., Buzzell, G.A., Morales, S., Bowers, M.E., Leach, S.C., & Fox, N.A. (2020). The Maryland analysis of developmental EEG (MADE) pipeline. *Psychophysiology*, 57(6), e13580. <https://doi.org/10.1111/psyp.13580>
- Debnath, R., Tang, A. Nelson, C.A., Zeanah, C.H., & Fox, N.A. (2020). Long-term effects of institutional rearing, foster care intervention and disruptions in care on brain electrical activity in adolescence. *Developmental Science*, 23(1), e12872. doi: 10.1111/desc.12872
- Debnath, R., Viola Miller, N., Morales, S., Seddio, K.R., & Fox, N.A. (2020). Investigating brain electrical activity and functional connectivity in adolescents with clinically elevated

levels of ADHD symptoms in alpha frequency band. *Brain research*, 147142. Advance online publication. <https://doi.org/10.1016/j.brainres.2020.147142>

- Evans, T.C., Bar-Haim, Y., Fox, N.A., Pine, D.S., & Britton, J.C. (2020). Neural mechanisms underlying heterogeneous expression of threat-related attention in social anxiety. *Behaviour research and therapy*, 132, 103657.
- Filippi, C., Choi, Y.B., Fox, N.A., & Woodward, A.L. (2020). Neural correlates of infant action processing relate to theory of mind in early childhood. *Developmental science*, 23(2), e12876. <https://doi.org/10.1111/desc.12876>
- Filippi, C.A., Sachs, J.F., Phillips, D., Winkler, A., Gold, A.L., Leibenluft, E., Pine, D.S., & Fox, N.A. (2020). Infant behavioral reactivity predicts change in amygdala volume 12 years later. *Developmental cognitive neuroscience*, 42, 100776. <https://doi.org/10.1016/j.dcn.2020.100776>
- Filippi, C., Ravi, S., Bracy, M., Winkler, A.M., Sylvester, C.M., Pine, D.S., Fox, N.A. (2020). Amygdala functional connectivity and negative reactive temperament at age 4 months. *Journal of the American Academy of Child & Adolescent Psychiatry*. <https://doi.org/10.1016/j.jaac.2020.11.021>
- Fox, N.A., Buzzell, G.A., Morales, S., Valadez, E.A., Wilson, M., & Henderson, H.A. (2020). Understanding the Emergence of Social Anxiety in Children With Behavioral Inhibition. *Biological psychiatry*, S0006-3223(20)31989-2. Advance online publication.
- Frenkel, T.I., Donzella, B., Frenn, K.A., Rousseau, S., Fox, N.A., & Gunnar, M.R. (2020). Moderating the Risk for Attention Deficits in Children with Pre-Adoptive Adversity: The Protective Role of Shorter Duration of out of Home Placement and Children's Enhanced Error Monitoring. *Journal of abnormal child psychology*, 48(9), 1115–1128. <https://doi.org/10.1007/s10802-020-00671-2>
- Glenn, D.E., Fox, N.A., Pine, D.S., Peters, M.A.K., & Michalska, K.J. (2020). Divergence in cortical representations of threat generalization in affective versus perceptual circuitry in childhood: Relations with anxiety. *Neuropsychologia*, 142(1), e107416. doi: 10.1016/j.neuropsychologia.2020.107416
- Goldman, P.S., Bakermans-Kranenburg, M.J., Bradford, B., Christopoulos, A., Ken, P., Cuthbert, C., Duchinsky, R., Fox, N.A., Grigoras, S., Gunnar, M.R., Ibrahim, R.W., Johnson, D., Kusumaningrum, S., Agastya, N., Mwangangi, F.M., Nelson, C.A., Ott, E. M., Reijman, S., van IJzendoorn, M.H., Zeanah, C.H., ... Sonuga-Barke, E. (2020). Institutionalisation and deinstitutionalisation of children 2: policy and practice recommendations for global, national, and local actors. *The Lancet. Child & adolescent health*, S2352-4642(20)30060-2. Advance online publication. [https://doi.org/10.1016/S2352-4642\(20\)30060-2](https://doi.org/10.1016/S2352-4642(20)30060-2)

- Guyon-Harris, K.L., Humphreys, K.L., Miron, D.M., Tibu, F., Fox, N.A., Nelson, C.A., & Zeanah, C.H. (2020, epub ahead of print). Early caregiving quality predicts consistency of competent functioning from middle childhood to adolescence following early psychosocial deprivation. *Development and Psychopathology*, 1-11. doi:10.1017/S0954579419001500
- Humphreys, K.L., Guyon-Harris, K.L., Tibu, F., Wade, M., Nelson, C.A., Fox, N.A., & Zeanah, C.H. (2020). Psychiatric outcomes following severe deprivation in early childhood: Follow-up of a randomized controlled trial at age 16. *Journal of Clinical and Consulting Psychology*.
- Hwang, H. G., Debnath, R., Meyer, M., Salo, V. C., Fox, N. A., & Woodward, A. (2020). Neighborhood racial demographics predict infants' neural responses to people of different races. *Developmental science*, e13070. Advance online publication. <https://doi.org/10.1111/desc.13070>
- Kim, S.H., Buzzell, G., Faja, S., Choi, Y.B., Thomas, H.R., Brito, N.H., Shuffrey, L.C., Fifer, W.P., Morrison, F.D., Lord, C., & Fox, N.A. (2020). Neural dynamics of executive function in cognitively able kindergarteners with autism spectrum disorders as predictors of concurrent academic achievement. *Autism : the international journal of research and practice*, 24(3), 780–794. <https://doi.org/10.1177/1362361319874920>
- Leach, S.C., Morales, S., Bowers, M.E., Buzzell, G.A., Debnath, R., Beall, D., & Fox, N.A. (2020). Adjusting ADJUST: Optimizing the ADJUST algorithm for pediatric data using geodesic nets. *Psychophysiology*, 57(8), e13566. <https://doi.org/10.1111/psyp.13566>
- Morales, S., Miller, N.V., Troller-Renfree, S.V., White, L.K., Degnan, K.A., Henderson H.A., & Fox, N.A. (2020). Attention bias to reward predicts behavioral problems and moderates early risk to externalizing and attention problems. *Development and Psychopathology*, 1-13. doi:10.1017/S0954579419000166
- Morris, A.S., Wakschlag, L., Krogh-Jespersen, S., Fox, N.A., Planalp, B., Perlman, S.B., Shuffrey, L.C., Smith, B., Lorenzo, N.E., Amso, D., Coles, C.D., & Johnson, S.P. (2020). Principles for Guiding the Selection of Early Childhood Neurodevelopmental Risk and Resilience Measures: HEALTHy Brain and Child Development Study as an Exemplar. *Adversity and Resilience Science*
- Smith, A.R., Haller, S.P., Haas, S.A., Pagliaccio, D., Behrens, B., Swetlitz, C., Bezek, J.L., Brotman, M.A., Leibenluft, E., Fox, N. A., & Pine, D. S. (2020). Emotional distractors and attentional control in anxious youth: eye tracking and fMRI data. *Cognition & emotion*, 1–19. Advance online publication.
- Tang, A., Crawford, H., Morales, S., Degnan, K.A., Pine, D.S., & Fox, N.A. (2020). Infant behavioral inhibition predicts personality and social outcomes three decades later. *Proceedings of the National Academy of Sciences of the United States of America*, 117(18), 9800–9807. <https://doi.org/10.1073/pnas.1917376117>

- Troller-Renfree, S.V., Buzzell, G.A., & Fox, N.A. (2020). Changes in working memory influence the transition from reactive to proactive cognitive control during childhood. *Developmental science*, e12959. Advance online publication. <https://doi.org/10.1111/desc.12959>
- Wade, M., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2020). Global deficits in executive functioning are transdiagnostic mediators between severe childhood neglect and psychopathology in adolescence. *Psychological Medicine*, 1-8. doi:10.1017/S0033291719001764
- Wade, M., Zeanah, C.H., Fox, N.A., & Nelson, C.A. (2020). Social communication deficits following early life deprivation and relation to psychopathology: A randomized clinical trial of foster care. *Journal of Child Psychology and Psychiatry*.
- Wade, M., Sheridan, M.A., Zeanah, C.H., Fox, N.A., Nelson, C.A., & McLaughlin, K.A. (2020). Environmental determinants of physiological reactivity to stress: The interacting effects of early life deprivation, caregiving quality, and stressful life events. *Development and Psychopathology*.

2021

- Condy, E.E., Miguel, H.O., Millerhagen, J., Harrison, D., Khaksari, K., Fox, N.A., & Gandjbakhche, A. (2021). Characterizing the Action-Observation Network Through Functional Near-Infrared Spectroscopy: A Review. *Frontiers in Human Neuroscience*.
- Bowers, M. E., Morales, S., Buzzell, G. A., & Fox, N. A. (2021). The influence of monetary reward on proactive and reactive control in adolescent males. *Developmental Cognitive Neuroscience*, 48, 100934. Advance online publication.
- Bruce, J., Pears, K. C., McDermott, J. M., Fox, N. A., & Fisher, P. A. (2021). Effects of a school readiness intervention on electrophysiological indices of external response monitoring in children in foster care. *Development and psychopathology*, 33(3), 832–842. <https://doi.org/10.1017/S0954579420000164>
- Festante, F., Rayson, H., Paukner, A., Kaburu, S.S.K., Toschi, G., Fox, N.A., & Ferrari, P.F. (2021). Oxytocin promotes prosocial behavior and related neural responses in infant macaques at-risk for compromised social development. *Developmental Cognitive Neuroscience*, 48, 100950. Advance online publication.
- Hwang, H. G., Debnath, R., Meyer, M., Salo, V. C., Fox, N. A., & Woodward, A. (2021). Neighborhood racial demographics predict infants' neural responses to people of different races. *Developmental science*, 24(4), e13070. <https://doi.org/10.1111/desc.13070>
- Juvrud, J., Haas, S. A., Fox, N. A. & Gredeback, G. (2021) Infants' selective visual attention is dependent on maternal affect and emotional context. *Frontiers in Psychology*, 12, 700272. <https://doi.org/10.3389/fpsyg.2021.700272>

- Miguel, H. O., Condy, E. E., Nguyen, T., Zeytinoglu, S., Blick, E., Bress, K., Khaksari, K., Dashtestani, H., Millerhagen, J., Shahmohammadi, S., Fox, N. A., & Gandjbakhche, A. (2021). Cerebral hemodynamic response during a live action-observation and action-execution task: A fNIRS study. *PloS one*, *16*(8), e0253788. <https://doi.org/10.1371/journal.pone.0253788>
- Morales, S., Tang, A., Bowers, M.E., Miller, N.V., Buzzell, G.A., Smith, E., Seddio, K., Henderson, H.A., & Fox, N.A. (2021). Infant temperament prospectively predicts general psychopathology in childhood. *Development and Psychopathology*. doi:10.1017/S0954579420001996
- Morales, S., Zeytinoglu, S., Buzzell, G. A., Valadez, E. A., Troller-Renfree, S. V., Bowers, M. E., Chronis-Tuscano, A., Degnan, K. A., Almas, A. N., Pine, D. S., & Fox, N. A. (2021). Neurocognitive Profiles in Adolescence Predict Subsequent Anxiety Trajectories During the COVID-19 Pandemic. *Biological psychiatry. Cognitive neuroscience and neuroimaging*, S2451-9022(21)00166-X. Advance online publication. <https://doi.org/10.1016/j.bpsc.2021.06.004>
- Noble, K. G., Magnuson, K., Gennetian, L. A., Duncan, G. J., Yoshikawa, H., Fox, N. A., & Halpern-Meekin, S. (2021) Baby's first years: Design of a randomized controlled trial of poverty in the United States. *Pediatrics*, *148*(3), e2020049702. <https://doi.org/10.1542/peds.2020-049702>
- Troller-Renfree, S.V., Morales, S., Leach, S.C., Bowers, M.E., Debnath, R., Fifer, W.P., Fox, N.A., & Noble, K.G. (2021). Feasibility of assessing brain activity using mobile, in-home collection of electroencephalography: methods and analysis. *Developmental psychobiology*, 10.1002/dev.22128. Advance online publication. <https://doi.org/10.1002/dev.22128>
- Zeytinoglu, S., Neuman, K. J., Degnan, K. A., Almas, A. N., Henderson, H., Chronis-Tuscano, A., Pine, D. S., & Fox, N. A. (2021). Pathways from maternal shyness to adolescent social anxiety. *Journal of child psychology and psychiatry, and allied disciplines*, 10.1111/jcpp.13477. Advance online publication. <https://doi.org/10.1111/jcpp.13477>
- In Press:
- Meyer, M., Chung, H., Debnath, R., Fox, N.A., & Woodward, A.L. (in press). Social context shapes neural processing of others' actions in 9-month-old infants. *Journal of Experimental Child Psychology*.
- Mukerji, C.E., Wade, M., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (in press). Growth in self-regulation over the course of adolescence mediates the effects of foster care on psychopathology in post-institutionalized children: a randomized clinical trial. *Clinical Psychological Science*.

Valadez, E. A., Troller-Renfree, S. V., Buzzell, G. A., Henderson, H. A., Chronis-Tuscano, A., Pine, D. S., & Fox, N. A. (in press). Behavioral inhibition and dual mechanisms of anxiety risk: Disentangling neural correlates of proactive and reactive control. *JCPP Advances*.

Tang, A., McLaughlin, K.A., Sheridan, M., Nelson, C.A., Zeanah, C.H., & Fox, N.A. (In press). Autonomic reactivity to social rejection and the buffering effects of adolescent friendships on social problems following early psychosocial deprivation. *Emotion*.

Conferences, Workshops, and Talks

Keynotes (Since 2013)

Fox, N.A. (2013, October). *The effects of early adversity on brain and behavioral development: Lessons from the Bucharest Early Intervention Project*. Presented at the Cognitive Development Society Conference, Memphis, Tennessee.

Fox, N.A. (2013, November). *Temperament and Child Development*. Keynote presented at the Bowen Center, Washington D.C.

Fox, N.A. (2013, December). *Brain Plasticity and Experience in Development*. Keynote presented at the National Zero to Three Conference.

Fox, N.A. (2014, September). *Timing matters: How to think about the effects of early experience on brain and behavioral development*. International Society for the Prevention of Child Abuse and Neglect Conference, Nagoya, Japan.

Fox, N.A. Enhancing Positive Change for the Developing Brain. (2015, February). *The Importance of Early Childhood: Socio-Emotional Development and Early Intervention*. Norlien Foundation, Edmonton, CA.

Fox, N.A. (2015, March). *A Matter of Timing: Enhancing Positive Change for the Developing Brain*. The 28th Annual Gravens Conference on the Physical and Developmental Environment of the High Risk Infant, Tampa, FL.

Fox, N.A. (2015, April). *A Matter of Timing: Enhancing Positive Change for the Developing Brain. Expanding Horizons for the Early Years: Looking Back to Transform the Future*. Infant Mental Health Promotion. Hospital for Sick Children, Toronto, Canada.

Fox, N.A. (2015, May). *Temperamental Links to Social Competence: The Roles of Automatic and Controlled Processes in Emotion Regulation*. 4th Annual International Roots of Empathy Research Symposium, Toronto, Canada.

- Fox, N.A. (2015, October). *Behavioral Inhibition and the Emergence of Social Anxiety: The Roles of Reactive and Proactive Cognitive Control*. Keynote address at the Developmental Affective Neuroscience Symposium, Pittsburgh, PA.
- Fox, N.A. (2015, November). *The Importance of Temperament in Children's Development*. Talk Presented at the 2015 Simms-Mann Foundation Think Tank.
- Fox, N.A. (2015, November). *How Can Neuroscience Inform Policy and Practice in Early Childhood*. Maryland Early Child Care and Research Forum, Towson, Maryland.
- Fox, N.A. (2016, October). *Temperament across the Lifespan: From biology to intervention*. Keynote address given at the Occasional Temperament Conference, Center for Child and Family Well-Being in Seattle, WA.
- Fox, N.A. (2016, April). *A matter of timing: Enhancing positive change for the developing brain*. Keynote speaker at the First 5 Shasta Early Childhood Conference in Shasta, California.
- Fox, N.A. (2016, September). *Timing is Everything: The important of sensitive periods early in life on brain and behavioral development*. Keynote speaker at the Neurons to Neighborhoods event at Carnegie Mellon University, Pittsburgh, PA.
- Fox, N.A. (2018, July). *The role of temperament in the development of anxiety*. International Congress of Child Psychiatry, Prague.
- Fox, N.A. (2018, October). *The effects of early experience on brain and behavior*. Infant Mental Health Conference, Hospital for Sick Children, Toronto, Canada.
- Invited Talks (since 2013)*
- Fox, N.A. (2013, March). Invited talk at the Spiker Lecture, Department of Psychology, University of Iowa.
- Fox, N.A. (2013, June). *Early Education and Development*. Invited talk in Shanghai, China.
- Fox, N.A. (2013, June). Invited talk at the Hebrew University Workshop of Biology and Social Development.
- Fox, N.A. (2013, August). *Early Experiences and the Development of Emotions*. Invited talk at the International Society for Research in Emotion, San Francisco, California.
- Fox, N.A. (2013, October). *Brain Plasticity and Early Childhood Development*. Invited talk at the Early Education Consortium, Guilford County, North Carolina.
- Fox, N.A. (2014, January). *Are there sensitive periods for the effects of early experience on cognitive and social competence? Lessons from the Bucharest Early Intervention Project*. Penn State Child Study Center: Annual Lois Bloom Lecture.

- Fox, N.A. (2014, January). *Cognitive Control and Anxiety*. Talk at Mortimer D. Sackler, M.D. Winter Conference on Developmental Psychobiology, Cozumel, Mexico.
- Fox, N.A. (2014, February). *What do we know about the effects of poor neighborhoods on children's neurological development and lifelong health?* Talk at Conference "After Thompson: Getting kids out of harm's way: Implications for the wellbeing of children." Annie E. Casey Foundation, Baltimore, MD.
- Fox, N.A. (2014, March). *Are there sensitive periods for the effects of early experience on cognitive and social development?* Norfleet Symposium, University of Memphis.
- Fox, N.A. (2014, May). *Are there sensitive periods for the effects of early experience on cognitive and social competence? Lessons from the Bucharest Early Intervention Project.* International Symposium on Cutting Edge Research of Early Child Development, Nanjing, China.
- Fox, N.A. (2014, May). *Early experience, brain development, and early childhood education.* International Symposium on Cutting Edge Research of Early Child Development, Nanjing, China.
- Fox, N.A. (2014, June). *The role of attention bias to threat in predicting anxious behavior amongst temperamentally fearful children.* Meeting on Cognitive Bias Modification in Child and Adult Anxiety: Jacobs Foundation Marbach Castle.
- Fox, N.A. (2014, October). *The emergence of executive functions.* Talk to the Early Childhood Policy Leadership Institute, Tulane University.
- Fox, N.A. (2014, November). *The Bucharest Early Intervention Project.* Talk at Both Ends Burning Meeting Boston, MA.
- Fox, N.A. (2014, November). *Early deprivation and the roots of cognitive and emotional dysfunction.* Talk at Institute for Neuroscience, Parma, Italy.
- Fox, N.A. (2015, May). *Fear conditioning and safety learning across development.* Paper presented at Workshop sponsored by the National Science Foundation, The Neurodevelopment of Social Buffering and Fear Learning.
- Fox, N.A. (2015, May). *Principles of Brain Development and Their Role Supporting Cognitive and Affective Behaviors.* White House, Panel on Neuroscience, Resilience, and Foster Care, Washington, D.C.
- Fox, N.A. (2015, September). *Development and Functions of the Mirror Neuron System.* Talk presented to the Biobehavioral Branch, National Institute of Child Health and Human Development.

- Fox, N.A. (2015, October). *Beyond Main Effects: Individual Variation in Vulnerability and Resilience*. Talk presented to the Frontiers of Innovation Meeting, Center for the Developing Child, Boston, MA.
- Fox, N.A. (2015, November). *The Effects of Deprivation Early In Life: Evidence from the Bucharest Early Intervention Project*. Talk to the US Department of Education's Immigration Working Group: Supporting Educations Parents Affinity Group.
- Fox, N.A. (2015, December). *Nurture Shapes Nature-the Science of Early Experience. The Effects of Adversity on Brain and Behavior*. Teaching it Forward, Williams College Event, Boston, MA.
- Fox, N.A. (2016, April). *The Effects of Early Deprivation on the Development of Brain and Behavior*. Robert B. Cairns Carolina Consortium on Human Development Capstone Lecture, Department of Psychology, University of North Carolina, Chapel Hill.
- Fox, N.A. (2016, September). *The Effects of Psychosocial Deprivation on Brain and Behavior: Lessons from the Bucharest Early Intervention Project*. Distinguished Lecture in Educational Neuroscience at Gallaudet University.
- Fox, N.A. (2016, October). *The Lasting Effects of Adversity Talk*. Presented at the Jaffee Symposium on Security and Scarcity, University of Michigan.
- Fox, N.A. (2017, January). *The Effects of Early Adversity on Brain and Behavior: Lessons from the Bucharest Early Intervention Project*. Lecture given at the Sackler Brain Course, American Museum of Natural History, NYC, NY.
- Fox, N.A. (2018, February). *Temperamental Antecedents of Anxiety*, Cornell Weill, Department of Child Psychiatry, New York.
- Fox, N.A. (2018, October). *Reflections on the role of experience on behavior*. International Society for Developmental Psychobiology, San Diego.
- Fox, N.A. (2019, March). *The effects of early adversity on brain and behavior*. Wisconsin Family Initiative meeting.

Refereed Presentations (since 2018)

- Miller, N.V., Chronis-Tuscano, A., Degnan, K., & Fox, N.A. (2018, January). *Longitudinal relation between infant motor activity and childhood ADHD symptoms: Moderation by maternal sensitivity*. Poster presented at the Annual Meeting for the American Professional Society of ADHD and Related Disorders, Washington, DC.
- Bowers, M.E., Buzzell, G.A., Salo, V., Troller-Renfree, S.V., Hodgkinson, C.A., Goldman, D., Gorodetsky, E., McDermott, J.M., Henderson, H.A., & Fox, N.A. (2018, March). *Relations between catechol-O-methyltransferase (COMT) genotype and inhibitory control*

development in childhood. Poster to be presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Debnath, R., Tang, A., Buzzell, G.A., Fox, N.A., Zeanah, C.H., & Nelson, C.A. (2018, May). *Institutional care is associated with changes in brain electrical activity: Results from a longitudinal, randomized control trial of children in Romania.* Poster presentation at the Annual Meeting of the Society for Biological Psychiatry, New York, United States.

Harrewijn, A., Buzzell, G.A., Debnath, R., Leibenluft, E., Pine, D.S., & Fox, N.A. (2018, May). *Behavioral inhibition moderates the relation between frontal alpha asymmetry and social-effect ERN.* Poster presentation at the Annual Meeting of the Society for Biological Psychiatry, New York, United States.

Morales, S., Bowman, L.C., Velnoskey, K.R., Fox, N.A., & Redcay, E. (2018, May). *An fMRI study of action observation and action execution in childhood.* Poster presented at FLUX Society Satellite Conference, Chapel Hill, NC.

Vidal-Ribas, P., Vitale, A., Benson, B., Fox, N.A., Pine, D.S., & Stringaris, A. (2018, May). *Neural responses to reward in childhood predict stress reactivity in early adolescence.* Poster presented at the 73rd Meeting of the Society of Biological Psychiatry, New York, NY, USA.

Margolis E., Fopenawoh A., Schneider L., Leibenluft E., Pine, D.S., Fox, N.A., Filippi C., (2018, June). *Approach/avoidance responses to novelty in infancy as an early predictor for behavioral inhibition.* Poster presented at the International Congress of Infant Studies. Philadelphia

Salo, V.C., Debnath, R., Rowe, M.L., Fox, N.A. (2018, July). *Examining the role of the mirroring system in early communicative development.* Poster presented at the Biennial International Conference on Infant Studies, Philadelphia, PA.

Bowers, M.E., Buzzell, G.A., Barker, T.V., Troller-Renfree, S.V., Bernat, E.M., Morales, S., Pine, D.S., Henderson, H.A., & Fox, N.A. (2018, October). *Associations between rule-breaking behaviors and electrophysiological measures of cognitive control in adolescence.* Poster presented at the annual meeting of the Society for Psychophysiological Research, Quebec City, Quebec, Canada.

Morales, S., Buzzell, G.A., Harrewijn, A., Marshall, P.J., Reeb-Sutherland, B.C., Pine, D.S., Henderson, H.A., & Fox, N.A. (2018, October). *Infant electrophysiological responses to auditory novelty longitudinally predict externalizing and attention problems across childhood.* Poster to be presented at the Society for Psychophysiological Research Annual Meeting, Quebec, Canada.

Seddio, K., Suarez, G., Huber, S., & Fox., N. A. (2018, October). *With a little help from my friend: The polyvagal effect of friendship buffering following the Trier Social Stress Test.* Poster presented at the Society for Psychophysiological Research annual meeting, Quebec

City, Quebec, Canada.

Seddio, K., Huber, S., Suarez, G., & Fox, N. A. (2018, October). *Getting to know you: Self-reported social anxiety at age 12 predicts respiratory sinus arrhythmia during an unfamiliar social interaction at age 15*. Poster presented at the International Society for Developmental Psychobiology, San Diego, California.

Bowers, M.E., Buzzell, G.A., Morales, S., Troller-Renfree, S.V., Bernat, E.M., Pine, D., Fox, N.A. (2019, March). *Time-frequency approach to studying cognitive control in children: The role of theta and delta oscillations*. Poster presented at the meeting of Society for Research on Child Development, Baltimore, MD.

Bowers, M.E., Reider, L., Morales, S., Buzzell, G.A., Miller, N., Troller-Renfree, S.V., Pine, D., Henderson, H.A., Fox, N.A. (2019, March). *Differences in parent and child report of the SCARED: Implications for investigations of social anxiety*. Poster presented at the meeting of Society for Research on Child Development, Baltimore, MD.

Flint, G.R. & Degnan, K.A. (2019, March). *Maternal emotion socialization: Goals versus behaviors*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Huz, I. & Degnan, K. A. (2019, March). The intersection of temperament and early childhood care and education as a predictor of social functioning in middle childhood. In K.A. Degnan (Chair), *The multiple factors influencing developmental pathways of behavioral inhibition*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Miller, N.V., Hane, A.A., Degnan, K.A., Fox, N.A., Chronis-Tuscano, A. (2019, March). Investigation of a developmental pathway from infant anger reactivity to childhood ADHD symptoms: inhibitory control as mediator. In N. V. Miller (Chair), *What variation in executive functioning tells us about ADHD: insights from twin and longitudinal studies*. Symposium to be presented at the meeting of Society for Research on Child Development, Baltimore, MD.

Suarez, G.L., Morales, S., Miller, N.V., Penela, E., Henderson, H., & Fox, N.A. (2019, March). *Emotion regulation mediates the longitudinal relations between early temperament and social anxiety in late childhood*. Poster presented at Society for Research in Child Development, Baltimore, Maryland.

Miller, K., Huber, S., Zeytinoglu, S., Labahn, C., Henderson, H.A., Fox, N.A. (2019, May). *The relations between social functioning and subtypes of anxiety in early adolescence*. Poster to be presented at the annual convention of the Association for Psychological Science, Washington, DC.

Ravi, S., Schneider, L., Fox, N.A., Pine, D.S., Leibenluft, E., Filippi, C. (2019, May). *Negative parenting, not positive parenting, influences the development of irritability in children*.

Poster presented at the 31st Annual Association for Psychological Science Convention, Washington, D.C.

Hwang, H.G., Meyer, M., Debnath, R., Salo, V., Fox, N.A., & Woodward, A. (2019, August). *Neighborhood racial demographics predict infants' motor system activation toward racial outgroup individuals*. Poster presented at the FLUX Conference, New York, NY.

Glenn, D.E., Peters, M.A.K., Fox, N.A., Pine, D.S., Michalska, K.J. (2019, August). *Neural differentiation of learned threat associations is influenced by childhood trait anxiety*. Poster presented at the FLUX Conference, New York, NY.

Morales, S., Suarez, G.L., Buzzell, G.A., Debnath, R., Redcay, E., & Fox, N.A. (2019, September). Involvement of the mirror neuron system in automatic imitation in childhood. Poster presented at the 59th annual meeting of the Society for Psychophysiological Research, Washington, D.C.

Leach, S.C., Morales, S., Bowers, M.E., Buzzell, G.A., Debnath, R., Elliott, A., Fifer, W., & Fox, N.A. (2019, September). *Adjusting ADJUST: Optimizing the ADJUST Algorithm for Child Data using Geodesic Nets*. Poster presented at the 59th annual meeting of the Society for Psychophysiological Research, Washington, D.C.

Miller, K., Zeytinoglu, S., Henderson, H.A., & Fox, N.A. (2019, November). *From Maternal Shyness in Early Childhood to Social Anxiety in Adolescence: The Mediating Role of Social Wariness in Middle Childhood*. Poster presented at the 53rd annual convention of the Association for Behavioral and Cognitive Therapies (ABCT), Meeting of the Child & Adolescent Anxiety Special Interest Group, Atlanta, GA.

Havewala, M., Lorezo, N.E., Seddio, K., Oddo, L.E., Novick, D., Fox, N.A., Chronis-Tuscano, A. (2021, August). *ADHD and Anxiety Symptoms: The Moderating Effects of Peer Support and Temperament*. Poster presented at the American Psychological Association 2021 Annual Virtual Convention.

Lurie, L., McLaughlin, K., Gruhn, M., Humphreys, K., Patel, K., Zeanah, C., Fox, N., Nelson, C., & Sheridan, M. (2021, September) *Early caregiving quality may mitigate the impact of severe psychosocial deprivation on neural development in previously institutionalized children*. Poster presented at the Flux Society 2021 Virtual Congress.

Symposia

Degnan, K.A., Lahat, A., Pine, D.S., & Fox, N.A. (2013, April). *Temperamental exuberance: longitudinal outcomes in young adulthood*. In K.A. Degnan & J.M. Dollar (Co-Chairs), *Is Positive Affect Always a Good Thing?: Links to Risk and Resilience from Both Developmental and Clinical Perspectives*. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.

- Pérez-Edgar, K., Hardee, J.E., Bar-Haim, Y., Pine, D.S., & Fox, N.A. (2013, August). *Patterns of Neural Connectivity reflect Developmental Mechanisms linking Childhood Behavioral Inhibition to Socioemotional Functioning in Young Adulthood*. Paper presented at the 121st Annual Convention of the American Psychological Association, Honolulu Hawaii. Chair of symposium titled *The Biology of Anxiety: Electrophysiology, Neuroimaging, and Genetics of Attention and Fear Learning*.
- Fox, N.A. (2014, May). *Psychosocial deprivation affects brain growth and activity*. Talk in Symposium at World Association of Infant Mental Health Meeting, Edinburgh, Scotland.
- Henderson, H., McDermott, J., & White, L. (2015, June). *Early reactive and proactive control in relation to later regulatory abilities*. Paper to be presented in A. Lahat (Chair) Cognitive, physiological, and neural mechanisms associated with shyness and behavioral inhibition. Symposium to be conducted at the 45th Annual Meeting of the Jean Piaget Society, Toronto, ON, Canada.
- Degnan, K.A., Henderson, H.A., Almas, A.N., & Fox, N.A. (2016, March). *The influence of life events on daily social experiences for behaviorally inhibited adolescents*. In K. Rubin (Chair), Behavioral Inhibition and Social Withdrawal: Peer Interactions and Relationships during Early Adolescence. Paper presented at the biennial meeting of the Society for Research in Adolescence, Baltimore, MD.
- Fox, N.A. (2016, May). *Neural Correlates of action from infancy to early childhood*. Symposium Chair at the International Conference on Infant Studies in New Orleans, LA.
- Fox, N.A. (2016, November). *Biopsychosocial Processes in the Emerging Relations Between Attention and Negative Affect in Infancy and Childhood*. Symposium discussant at the International Society for Developmental Psychobiology Conference in San Diego, CA.
- Troller-Renfree, S., Stevens, B.K., Buzzell, G.A., Degnan, K.A., Henderson, H.A., & Fox, N.A. (2017, April). *The moderating role of cognitive control on the link between behavioral inhibition and the development of anxiety*. Symposium conducted at the Society for Research on Child Development, Austin, TX.
- Buzzell, G.A., Barker, T.V., Troller-Renfree, S.V., Henderson, H.A., Pine, D.S., Fox, N.A. (2017, April). *A Neurobehavioral Mechanism Linking Temperament and Social Anxiety*. Symposium conducted at the Society for Research on Child Development, Austin, Texas.
- Fox, N.A. (2017, May). *Child Temperament: Integrating Behavioral and Neuroscience Findings to Understand the Origins of Personality and Risk for Psychopathology*. Presented at the State of the Art Symposium at the Society for Biological Psychiatry, Atlanta, GA.
- Fox, N.A. (2017, October). *Time-frequency, source, and connectivity approaches to study dynamic relations between monitoring, control and anxiety across development*. Symposium chair at the Society for Psychophysiological Research, Vienna, Austria.

- Buzzell, G.A., Troller-Renfree, S., Henderson, H.A., Pine, D.S., Fox, N.A. (2017, October). *Hypersensitive Error Monitoring Within a Social Context Mediates Longitudinal Relations Between Behavioral Inhibition and Adolescent Social Anxiety*. Symposium conducted at the Society for Psychophysiological Research, Vienna, Austria.
- Fox, N.A. (2017, November). *Neurodevelopmental processes in the emergence of psychiatric disorders: Current views on anxiety, irritability, and depression*. Presidential Symposium chair at the International Society for Developmental Psychobiology Conference in Washington, D.C.
- Miller, N.V., Degnan, K.A., Hane, A.A., Fox, N.A., Chronis-Tuscano, A. (2018, November). *Early identification of risk for Attention-Deficit/Hyperactivity Disorder in infancy, toddlerhood, and preschool: a series of longitudinal investigations*. Symposium presented at the Association for Behavioral and Cognitive Therapies 52th Annual Convention, Washington, D.C.
- Miller, N.V., Hane, A.A., Degnan, K.A., Fox, N.A., Chronis-Tuscano, A. (2019, March). *What variation in executive functioning tells us about ADHD: insights from twin and longitudinal studies*. Symposium conducted at the meeting of Society for Research on Child Development, Baltimore, MD.
- Fox, N.A. (January 2020). *Infant brain connectivity and temperament*. Paper presented at the Winter Meeting of the International Society for Developmental Psychobiology, Cartagena, Columbia.
- Zeytinoglu, S., Morales, S., Henderson, H., Fox, N.A. (2020, March). *Cascading Effects from Cognitive Control in Early Childhood to Behavioral Problems and Social Connectedness in Adolescence*. Symposium to be conducted at the biennial meeting of the Society for Research on Adolescence, San Diego, CA.
- Morales, S., Zeytinoglu, S., Buzzell, G. A., Valadez, E., Troller-Renfree, S. V., Bowers, M. E., Lorenzo, N. E., Chronis-Tuscano, A., Degnan, K. A., Almas, A. N., Pine, D. S., & Fox, N.A. (2021). *Neurocognitive Profiles in Adolescence Predict Anxiety Trajectories during the COVID-19 Pandemic in Young Adulthood*. In Morales, S. & Sequeira, S. (Chairs), *Neurobiological Predictors of Adolescent Mental Health during the COVID-19 Pandemic*. Symposium virtually presented at the biennial meeting of the Society for Research in Child Development.

Colloquia (since 2013)

- Fox, N.A. (2014, January). *The impact of psychosocial deprivation on the developing brain and behavior: Lessons from the Bucharest Early Intervention Project*. Colloquium to the College of Education at UC Irvine.
- Fox, N.A. (2014, February). *Are there sensitive periods for the effects of early experience on cognitive and social competence? Lessons from the Bucharest Early Intervention Project*. Colloquium to the Department of Psychology, University of Miami.

- Fox, N.A. (2014, February). *Predicting who does or does not develop anxiety amongst temperamentally fearful infants*. Colloquium to the Department of Psychology, Florida International University.
- Fox, N.A. (2014, March). *Are there sensitive periods for the effects of early experience on cognitive and social competence? Lessons from the Bucharest Early Intervention Project*. Colloquium to the Department of Psychology, UC Berkeley.
- Fox, N.A. (2014, April). *Temperamental antecedents and neural correlates of risk for anxiety disorders*. NIH Clinical Center Ground Rounds.
- Fox, N.A. (2014, April). *Are there sensitive periods for the effects of early experience on cognitive and social competence? Lessons from the Bucharest Early Intervention Project*. Colloquium to the Department of Psychology McMaster University.
- Fox, N.A. (2014, October). *The role of attention bias to threat in predicting anxious behavior amongst temperamentally fearful children*. Grand Rounds, Child and Adolescent Psychiatry, Johns Hopkins University.
- Fox, N.A. (2014, October). *The effects of Deprivation Early in Life: Evidence from the Bucharest Early Intervention Project*. Medstar Georgetown University Hospital Psychiatry Grand Rounds.
- Fox, N.A. (2015, February). *Individual Differences in Infant Temperament Place Some Children at Risk for Anxiety Disorders*. Colloquium presented to the Center for Neurobehavioral Development, University of Minnesota, Minneapolis, MN.
- Fox, N.A. (2015, April). *Studying the effects of early experience on development: The roles of context, biology, and individual differences*. Colloquium presented to the Institute for Human Development and Social Change, New York University.
- Fox, N.A. (2015, April). *Young Children At-Risk for Anxiety Disorders: The Role of Behavioral Inhibition*. Grand Rounds, Department of Psychiatry, University of Michigan, Ann Arbor, MI.
- Fox, N.A. (2015, December). *The Effects of Deprivation Early in Life*. Grand Rounds, Department of Neuroscience, Children's National Medical Center.
- Fox, N.A. (2015, December). *The Effects of Psychosocial Deprivation on Brain and Behavioral Development: Lessons from the Bucharest Early Intervention Project*. Colloquium presented to the Department of Psychology, Bar Ilan University, Israel.
- Fox, N.A. (2015, December). *Behavioral Inhibition and the Emergence of Social Anxiety: The Roles of Reactive and Proactive Cognitive Control*. Colloquium presented to the Department of Psychology, Haifa University, Haifa Israel.

Fox, N.A. (2016, February). *The effects of deprivation on the developing brain and behavior: Lessons from the Bucharest Early Intervention Project*. Colloquium presented to the Department of Psychology, Washington University in St. Louis, MO.

Fox, N.A. (2016, March). *Lessons from the Bucharest Early Intervention Project*. Colloquium presented to the Department of Psychology, University of Chicago.

Fox, N.A. (2018, October). *The effects of psychosocial adversity on brain and behavior*. CNRS, Lyon, France.

Fox, N.A. (2019, January). *The effects of adversity on brain and behavior: Lessons from the Bucharest Early Intervention Project*, Department of Psychology, University of Oregon, Eugene, Oregon.

Fox, N.A. (2020, October). *The effects of adversity on brain and behavioral development*. Pediatric Grand Rounds, University of North Carolina Department of Pediatrics. Chapel Hill, North Carolina

Fox, N.A. (2020, October). *Temperament and Social Development*, Pediatric Society, Charlotte North Carolina.

Sponsored Research

Current Grants

Bill and Melinda Gates Foundation: Early Predictors of Neurodevelopmental Outcomes, PI – Nelson, 06/2020-06/2022

National Institute of Drug Abuse: The Cumulative Risk of Substance Exposure and Early Life Adversity on Child Health Development and Outcome. 1R34DA050285, PI – Fox, 09/2019-03/2021. No Cost Extension until 03/2022

National Institute of Drug Abuse: 16/24 Healthy Brain and Child Development National Consortium. 1U01DA055316-01, PI – Fox, 09/2021-06/2026

National Institute of Drug Abuse: Healthy Brain and Child Development National Consortium Data Coordinating Center. 1U24DA055330, PI – Smyser, 09/2021-06/2026

National Heart, Lung, and Blood Institute. Effects of Early Psychosocial Deprivation on Cardiometabolic Risk in Early Adulthood. 1R01HL151848, PI – Slopen, Co-I Fox, 07/2020-05/2025

National Institute of Mental Health: Neural Origins of Temperamental Risk for Anxiety. R21MH122976, PI – Fox, 09/2020-09/2022

National Institute of Mental Health: Trajectories of Behavioral Inhibition and Risk for Anxiety. U01MH093349, PI – Fox, 09/2016-07/2021. No Cost Extension until 07/2022

National Institute of Mental Health: Effects of Early Psychosocial Deprivation on Mental Health in Adolescence. R01MH091363, PIs – Nelson, Fox, Zeanah, 08/2019-04/2024

National Institute of Child and Human Development: Functions and Development of the Mirror Neuron System. P01HD064653-06A1, PI-Fox, 09/2010-08/2021. No Cost Extension until 08/2022

National Institutes of Health: Environmental Influences on Child Health Outcomes in the Northern Plains Safe Passage Study Cohort. 1UG3OD023279, PI – Elliott, Co-I Fox, 09/2016-08/2023.

National Institutes of Health: Household Income and Child Development in the First Three Years of Life. 1R01HD087384, PI – Duncan, Co-I Fox. 09/2017-07/2022.

National Institutes of Child Health and Human Development: Bench to Bedside: fNIRS Mirror Neuron Network Dysfunction as an Early Biomarker of Neurodevelopment. PI – Gandjbakhche, Co-I Fox, 09/2016-09/2023.

Completed Grants

University of Maryland: Coronavirus Research Seed Grant Program. PI – Fox 04/13/2020-08/12/2020

National Science Foundation: Collaborative Research: Action, Learning, and Social Cognition. 1625495, PI – Woodward, Co-I, Fox, 07/2016-06/2019.

Bi-National Science Foundation: Attention Training in Children with Social Anxiety: A Randomized Controlled Trial of Intervention and Prevention. 2009340, PI – T. Schechner, Co-I Fox, 10/2010-09/2018.

National Institutes of Mental Health: Prospective Determination of Neurobehavioral Risk for the Development of Emotion Disorders. 1R01MH107444, PI – Shackman, Co-I, Fox, 04/2016-01/2018.

Harvard University: Assessing the Efficacy of Attention Bias Modification Training. 256458-5095845, PI – Fox, 07/2015-06/2017.

National Institute of Mental Health: Early Experience, Stress and Neurobehavioral Development Center. P50MH078105, PI – Gunnar, Co-I Fox, 03/09-02/14.

National Institute of Mental Health: Neurodevelopmental Mechanisms of Social Behavior. R01MH080759, PI – Levitt, 09/07-08/12.

National Institute of Child and Human Development MERIT award: Affect and Cerebral Asymmetry: A Developmental Approach. R37HD017899, PI – Fox, 09/06-08/12.

National Institute of Child and Human Development ARRA award: Affect & Cerebral Asymmetry: A Developmental Approach. R37HD017899, PI – Fox, 08/10-07/12.

National Institute of Mental Health ARRA award: The Effects of Early Temperament on Social Behavior in Adolescence. U01MH074454, PI – Fox, 09/09-08/12.

National Science Foundation: MRI: Acquisition of a 3-Tesla Magnetic Resonance Imaging (MRI). BCS0922985, PI – Fox, 09/09-08/10.

National Alliance for Research on Schizophrenia and Depression award: Neural and Cognitive Mechanisms of Threat Processing in Behaviorally Inhibited and Clinically Anxious Children: Pathways to Intervention. 01432359, PI – Fox, 5/07-4/10.

National Institute of Mental Health: Neural substrates of preschool psychopathology. 1R21MH0704780-01A1, PI – B. Leventhal, 7/06-6/09.

National Institute of Mental Health: Early temperament and social behavior in adolescence. 1R01 MH074454-01A2, PI – N. Fox, 2/05-1/09.

National Institute of Mental Health: Psychophysiology of risk for depression and anxiety. 1P01 MH56193-01, PI – M. Kovacs, 9/97-8/07.

McDonnell Foundation: Evaluation of face processing with psychophysiological and EEG indices of negative affect. PR 25003, PI – Nelson, 6/05-5/07.

National Institute of Mental Health: Early Experience, stress neurobiology and prevention. 1R21MH65046-01, PI – M. Gunnar, 7/01-6/06.

American Hearing Research Foundation: Social and emotional functioning of children with cochlear implants. PI – Fox, 1/03-12/04.

McDonnell Foundation: Exploring the neurosubstrates of EEG asymmetry. PI – Fox, 6/02-5/03.

National Institutes of Health: Affect and cerebral asymmetry: A developmental approach. R01 HD17899, PI – Fox, 9/01-8/06.

John D. and Catherine T. MacArthur Foundation. EEG asymmetry and amygdala activation: A primate study. PR 20012, PI – Amaral, 9/00-8/03.

National Institute of Mental Health: At-risk irritable infants. PI – J. Cassidy, 9/99-8/04.

National Institutes of Health. Affect and cerebral asymmetry: A developmental approach. R01HD017899, PI – Fox, 9/96-8/01.

National Science Foundation: Temperamental contributions to the development of social behavior, PI – Fox, 9/96-8/00.

Department of Education: Linkages to Learning: A school based program for the delivery of human services to elementary school students and their families, PI – Fox, 9/95-8/99.

Metropolitan Life Foundation. Washington, D.C. Preschool Project on Reduction of Violence. PI – Fox, 1/95-12/97.

March of Dimes Birth Defects Foundation. Neuropsych assessment of "Bayley Normal" high risk infants. Co-PI, 4/95-3/97.

National Institutes of Health. EEG asymmetry and social behavior in 4-year-old children, PI – Fox, 9/94-8/98.

National Institutes of Health. Infant cognitive and EEG development: Basic processes, PI – Fox, 7/94-6/97.

John D. and Catherine T. MacArthur Foundation. Psychophysiological assessment of four-month-old infants selected for motor arousal and affective responsivity, PI – Fox, 06/92-05/93.

John D. and Catherine T. MacArthur Foundation. Proposal to develop and test the Startle Probe Methodology with infants and children. PI- Fox, 1/92-12/93

National Institutes of Health. Affect and Cerebral Asymmetry: A developmental approach, R01HD017899, PI – Fox, 7/91-6/95

National Institutes of Health. Infant cognitive and EEG development: Basic processes, PI – Fox, 7/91-6/94.

John D. and Catherine T. MacArthur Foundation. Conference on the Effects of War and Violence on Children, PI – Fox, 5/1/91.

National Institute of Mental Health. Conference on the Effects of War and Violence on Children, PI – Fox, 5/1/91.

John T. and Catherine D. MacArthur Foundation. Frontal brain asymmetry, behavioral inhibition, and peer competence in four-and-a-half-year-old children, PI – Fox, 9/90-8/91.

John T. and Catherine D. MacArthur Foundation. Emotion Regulation Conference. Washington, D.C., 3/91.

John T. and Catherine D. MacArthur Foundation. Psychophysiological correlates of motor arousal and irritability in infants, PI – Fox, 5/89-4/91.

March of Dimes Birth Defects Foundation. Behavioral and physiological dimensions of reactivity in preterm infants, PI – Fox, 3/89-2/91.

National Institutes of Health. Affect and Cerebral Asymmetry: A developmental approach, R01HD17899, PI – Fox, 6/87-5/91.

National Institutes of Health. Manifestations of stress in preterm infants, PI – Fox, 9/87-8/90.

March of Dimes Birth Defects Foundation. Vagal tone and developmental outcome in high risk infants, PI – Fox, 3/87-2/89.

National Institutes of Health. Affect and cerebral asymmetry: A developmental approach, R01HD17899, PI – Fox, 4/85-3/87.

National Foundation March of Dimes. Vagal tone and developmental outcome in high risk infants. 3/85-2/87.

National Science Foundation. Hemispheric asymmetry and the development of discrete emotions, PI – Fox, 2/84-6/86.

National Institute of Mental Health. Facial expressions of happiness and sadness in infants, PI – Fox, 9/83-8/84.

The Foundation for Child Development. Affective responsivity and hemispheric asymmetry in 10 month old infants, PI – Fox, 9/82-8/83.

Teaching, Mentoring and Advising

Courses Taught

EDHD 498- Special Problems in Education (Undergraduate)

- Spring 2013: 2 students
- Fall 2013: 4 students
- Spring 2014: 5 students
- Fall 2014: 5 students
- Spring 2015: 7 students
- Fall 2015: 5 students
- Spring 2016: 6 students
- Fall 2016: 3 students
- Spring 2017: 1 student
- Fall 2017: 2 students
- Spring 2018: 1 student
- Fall 2018: 1 student
- Spring 2019: 1 student
- Fall 2019: 2 students
- Spring 2020: 3 students

EDHD 775- Human Developmental Neuroscience (Graduate)

- Spring 2015: 17 students

PSYC 469H- Honor's Thesis Proposal Preparation (Undergraduate)

- Spring 2013: 1 student
- Fall 2015: 1 student

PSYC 479- Special Research Experience in Psychology (Undergraduate)

- Spring 2013: 8 students
- Fall 2013: 8 students
- Spring 2014: 7 students
- Fall 2014: 9 students
- Spring 2015: 10 students
- Fall 2015: 6 students
- Spring 2016: 5 students
- Fall 2016: 4 students
- Spring 2017: 3 students
- Fall 2017: 4 students
- Spring 2018: 5 students
- Fall 2018: 4 students
- Spring 2019: 6 students
- Fall 2019: 5 students
- Spring 2020: 4 students
- Fall 2020: 2 students
- Spring 2021: 1 student
- Fall 2021: 1 student

PSYC 499H- Honor's Thesis Credit (Undergraduate)

- Spring 2014: 1 student
- Spring 2016: 1 student

BSCI 399- Biology Department Research (Undergraduate)

- Spring 2013: 7 students
- Fall 2013: 12 students
- Spring 2014: 14 students
- Fall 2014: 11 students
- Spring 2015: 10 students
- Fall 2015: 9 students
- Spring 2016: 7 students
- Fall 2016: 5 students
- Spring 2017: 12 students
- Fall 2017: 11 students
- Spring 2018: 14 students
- Fall 2018: 7 students

- Spring 2019: 12 students
- Fall 2019: 13 students
- Spring 2020: 14 students
- Fall 2020: 6 students
- Spring 2021: 6 students
- Fall 2021:

PHSC 389: Independent Study

- Spring 2019: 1 student
- Fall 2019: 2 students
- Spring 2020: 2 students

Advising: Research or Clinical

Completed Undergraduate Honor's Theses

Marina Nikhinson, Juliette Anderson, Christyn Jackson, Elizabeth Malesa, Alison Schlenger, Laura Driscoll, Danielle Delvecchio, Jordan Osher, Nadia Samad (2013), Stephanie Sequeria (2014), Caroline Cusick (2015), Laurel Gordon (2016), Adam Wright (2019), Emma Margolis (2019)

Completed Undergraduate Summer Internships

2014

Kate Browne, Kelley Gunther, Sean Hurley, Adnan Rashid, Natalie Scheeler, Omasiri Wonodi, Jessica Marvel, Kendra Lane, Melissa McElroy, Amrita Motgi, Adina Heckelman, Dominique Phillips, Leena Owens

2015

Katherine Beard, Molly McPheeters, Krista DeLone, Gabrielle Haeuber, Caroline Cusick, Dana Schindler, Lara White

Maryland Summer Scholars: Michelle Yang, Sara Smith, Laurel Gordon

2016

Alana Ebert-Zavos, Sarah DiGregorio, Kendall Powell, Dominique Phillips, Jill DeJames, Katherine Manders, Haley Regan, Jillian Abulencia, Michelle Yang, Jessica Sidhu, Alesia Richardson

Maryland Summer Scholars: Laurel Gordon

2018

Maryland Summer Scholars: Adam Wright, Emma Margolis

2019

Maryland Summer Scholars: Saad Pirzada

Doctoral

Cynthia Stifter	Professor, Penn State University
Brian Healy	Professor, Plymouth State College
Martha Ann Bell	Professor, Virginia Tech
Jennifer Martin McDermott	Associate Professor, U of Massachusetts, Amherst
Louis Schmidt	Professor, McMaster University
Ariana Shahinfar	Assistant Professor, University of North Carolina, Charlotte
Patricia Garrett-Peters	Research Fellow, University of North Carolina Chapel Hill
Heather Henderson	Professor, University of Waterloo
Michael Crowley	Assistant Professor, Yale Child Study Center
Efrat Schorr	Post-Doctoral Fellow, Bar Ilan University
Melissa Ghera	Associate Professor, St. Johns-Fisher University
Sarah Helfinstein	Post-Doctoral Fellow, University of Texas, Austin
Ross Vanderwert	Assistant Professor, Cardiff University, Cardiff, UK
Lauren White	Post-Doctoral Fellow, Children's Hospital of Philadelphia
Jenna Suway- Goldstein	Post-Doctoral Fellow, San Diego State University/UCSD
Tyson Barker	Post-Doctoral Fellow, University of Oregon
Kathryn Yoo	Post-Doctoral Fellow, University of California Davis
Sonya Troller-Renfree	Post-Doctoral Fellow, Columbia University
Sara Haas	Post-Doctoral Fellow, Uppsala University
Virginia Salo	Post-Doctoral Fellow, Vanderbilt University
Maureen Bowers	Post-Doctoral Fellow, University of Maryland
 <i>Post-Doctoral</i>	
Susan Calki	Professor, University of North Carolina, Greensboro
Timothy Marshall	Associate Professor, Christopher Newport University
Yair Bar-Haim	Professor, Tel-Aviv University
Peter Marshall	Professor, Temple University
Koraly Pérez-Edgar	Professor, Penn State University
Amie Ashley Hane	Professor, Williams College
Jae Bodas	Research Assistant Professor, Virginia Commonwealth Univ.
Bethany Reeb-Sutherland	Associate Professor, Florida International University
Connie Lamm	Assistant Professor, University of New Orleans
Ayelet Lahat	Postdoctoral Research Fellow, McMaster University
Alisa Almas	Research Scientist, University of British Columbia
Tahl Frenkel	Assistant Professor, Interdisciplinary Center, Herzliyah
Erin Cannon	Research Assistant Professor, University of Maryland
Samuel Thorpe	Data Scientists, Neural Analytics
Lindsay Bowman	Assistant Professor, University of California, Davis
Sara Nozadi	Instructor, Department of Child & Family Studies, University of New Mexico
Kathryn A. Degnan	Assistant Professor, Catholic University
Elizabeth Smith	Clinical Research Associate, Cincinnati Children's Hospital Medical Center
Natalie Miller	
George Buzzell	Assistant Professor, Florida International University
Kaylee Seddio	Assistant Professor, Utica College

Ranjan Debnath Research Scientist, Leibniz Institute for Neurobiology
Magdeburg, Germany

Santiago Morales Pamplona
Maureen Bowers

Current Post-Doctoral Fellows

Courtney Filippi
Alva Tang
Selin Zeytinoglu
Emilio Valadez
Nicole Lorenzo
Marco McSweeney

Other Research Directions (K-12 Interactions)

Roosevelt High School Senior Project Students
Elizabeth Reed
Kathy Farida Bhuiya

Editorships, Editorial Boards, and Reviewing Activities

Editorships

2011- Advisory Editor, Developmental Cognitive Neuroscience
2012- Consulting Editor, Psychological Bulletin
2007-2011 Associate Editor, International Journal of Behavioral Development

Editorial Boards

2012 - Editorial Advisory Board, Journal of Child Psychology and Psychiatry
2018 - Editorial Advisory Board, Psychological Science in the Public Interest
2018 - Editorial Board, Annual Reviews of Developmental Psychology
2019 - Editorial Board, Affective Science
2019 - Editorial Board, Mind, Brain and Behavior
2019 - Editorial Board, Affective Neuroscience

Historical Editorships, etc. (10+ years ago)

1997-99 Editor, Infant Behavior and Development
1992-98 Associate Editor, Developmental Psychology
1990-93 Editorial Board, Journal of Applied Developmental Psychology,
1990-93 Editorial Board, Child Development
1987-90 Associate Editor, Psychophysiology

Committees, Professional & Campus Service

Campus Service – Department

2004-05 Chair - Graduate School Research Council
2001-04 Member - Graduate School Research Council
2000 NACS Committee

Campus Service – College

1999-00 Faculty Advisory Committee – Biosciences Initiative
2020- Member College of Education APT Committee

Campus Service - Special Administrative Assignment

2002-03 UMCP IRB Clinical Trial Review Committee
2010- Executive Board, Brain and Behavior Institute

Offices and Committee Memberships

2020- Member, RAPID National Advisory Board
2019- Advisory Board, NIH Baby Toolbox
2016- Member, International Congress of Infant Studies
2016-2018 President, International Society for Developmental Psychobiology
2016- Advisory Board, Simms/Mann Institute
2015- Co-Scientific Director, National Scientific Council on the Developing Child
(member since 2003)
2015- Member, The Russell Sage Foundation, Biology and Social Science Working
Group
2015- External Reviewer, Department of Human Development, UC Davis
2005- Member, Executive Committee, NIH Toolbox
2003-09 Member, Biobehavioral and Behavior Sciences Subcommittee, NICHD
2002-16 Advisory Board, Merrill Palmer Institute
2001- Advisory Board, Carolina Consortium for Developmental Science.
1999-16 Member, NIMH Network: Early Experience, Stress Neurobiology and Prevention
1984- Member, International Society for Research on Emotion.
1978- Member, Society for Psychophysiological Research.
1975- Member, Society for Research in Child Development.

Leadership Roles in Meetings and Conferences

1987-88 Program Chair, International Conference on Infant Studies, Washington, D.C., 1988.

Other Non-University Committees, Memberships, Panels, etc

Historical Committees, etc. (10+ years ago)

2002-04 President Division 7, American Psychological Association
1992-93 Member, National Institute of Mental Health, Emotion and Personality Review
Committee
1991-92 Member, National Task Force on Applied Developmental Science.
1983-89 Childbirth Education Association, Board of Advisors.
1988-90 President, International Society for Infant Studies.
1988 Invited Reviewer: National Institute of Child Health and Development: Human
Development Study Section 3.
1988 Special Review Panel, National Institute of Mental Health: Special Study Section on
Training Programs in Emotion.
1986 Invited Reviewer: National Institute of Child Health and Development:
Mental Retardation and Prevention: Site visitor to Waisman Center, University of
Wisconsin, Madison and to Kennedy Center, Albert Einstein College of Medicine.

- 1986-88 Member, International Advisory Committee, First International Conference on Individual Differences in Behavior and Brain Functioning, Israel.
- 1985-89 Member: National Institute of Mental Health Review Panel, Small Grants Program, Biological and Neuroscience Subcommittee.
- 1985 Invited Reviewer, National Institute of Child Health and Development, Special Panel on Adolescent Pregnancy.
- 1984-86 Program Chair, Division 7, American Psychological Association, Washington, D.C.
- 1984-85 Ad Hoc Reviewer: National Institute of Mental Health Review Panel, Small Grants Program.
- 1982-86 U.S. Consumer Product Safety Commission. Work on safety of infant and child toys and furniture.