

Margaret M. Swingler, Ph.D.

University Address:
 University of North Carolina at Chapel Hill
 Frank Porter Graham Child Development Institute
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EDUCATION

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| September, 2008 | Ph.D. Experimental Psychology
Focus in Developmental Cognitive Neuroscience
University of California, San Diego- La Jolla, California
Dissertation: “Brain-behavior correlations during proposed transitions in the mother-child relationship: An examination of behavior and face-processing in six-month-olds and toddlers”
Advised by Dr. Leslie J. Carver
Committee Members: Dr. Eric Courchesne, Dr. Mark Appelbaum, Dr. Gail Heyman, Dr. Jaime Piñeda |
| June, 2004 | M.S. Experimental Psychology
University of California, San Diego- La Jolla, California
Thesis: “Maternal and child contributions to the development of joint attention”
Advised by Dr. Leslie Carver
Committee Members: Dr. Gail Heyman, Dr. Kang Lee |
| December, 2001 | B.A. <i>cum laude</i> , Psychology
North Carolina State University, Raleigh, NC
Graduated with Honors in Psychology
Honors Advisor: Dr. Amy Halberstadt |

POST-DOCTORAL TRAINING & EXPERIENCE

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|------------------------|--|
| Oct, 2017 – current | Research Scientist
Frank Porter Graham Child Development Institute
University of North Carolina at Chapel Hill- Chapel Hill, NC |
| Oct, 2012 – Sept, 2017 | Research Scientist
Department of Human Development and Family Studies
University of North Carolina at Greensboro- Greensboro, NC |

Aug, 2008 - Oct, 2012 Post-doctoral Fellow
 Department of Human Development and Family Studies
 University of North Carolina at Greensboro- Greensboro, NC
 Mentored by: Dr. Susan Calkins

PUBLICATIONS

- Vernon-Feagans, L., & Swingler, M. M. (2020). Early Development and Family Life in Rural America. In J.E. Glick, S.M. McHale, & V. King (Eds.), *Rural Families and Communities in the United States* (pp. 201-235). Springer, Cham.
- Brandes-Aitken, A., Braren, S., **Swingler, M.M.**, Voegtline, K, & Blair, C. (2019). Sustained attention in infancy: A foundation for the development of multiple aspects of self-regulation for children in poverty. *Journal of Experimental Child Psychology, 184*, 192-209.
- Diaz, A., **Swingler, M.M.**, Tan, L., Smith, C.L., Calkins, S.D., & Bell, M.A. (2019). Infant frontal EEG asymmetry moderates the association between maternal behavior and toddler negative affectivity. *Infant Behavior and Development, 55*, 88-99.
- Isbell, E., Calkins, S. D., Cole, V. T., **Swingler, M. M.**, & Leerkes, E. M. (2019). Longitudinal associations between conflict monitoring and emergent academic skills: An event-related potentials study. *Developmental Psychobiology, 61*, 495-512.
- Swingler, M.M.**, Isbell, E., Zeytinoglu, S., Calkins, S.D., & Leerkes, E. (2018). Maternal behavior predicts neural and behavioral measures of inhibitory control in preschoolers. *Developmental Psychobiology, 60*, 692-706. doi: 10.1002/dev.21742
- Isbell, E., Calkins, S.D., **Swingler, M.M.**, & Leerkes, E.M. (2018). Attentional fluctuations in preschoolers: Direct and indirect relations with task accuracy, academic readiness, and school performance. *Journal of Experimental Child Psychology, 167*, 388-403. doi: 10.1016/j.jecp.2017.11.013
- Swingler, M.M.**, Perry, N.B, Calkins S. D. & Bell, M.A. (2017). Maternal behavior predicts infant neurophysiological and behavioral attention processes in the first year. *Developmental Psychology, 53*, 13-27. doi: 10.1037/dev0000187
- Zeytinoglu, S., Calkins, S.D., **Swingler, M.M.**, & Leerkes, E.M. (2017). Pathways from maternal effortful control to child self-regulation: The role of maternal emotional support. *Journal of Family Psychology, 31*, 170-180. doi: 10.1037/fam0000271
- Perry, N.B, **Swingler, M.M.**, Calkins, S. D. & Bell, M.A. (2016). Neurophysiological

- correlates of attention behavior in early infancy: Implications for emotion regulation in preschool. *Journal of Experimental Child Psychology*, *142*, 245-261. doi:10.1016/j.jecp.2015.08.007
- Marcovitch, S., Clearwater, M.W., **Swingler, M.M.**, Calkins, S.D., & Bell, M.A. (2016). Attentional predictors of 5-month-olds' performance on a looking A-not-B task. *Infant and Child Development*, *25*, 233-246. doi: 10.1002/icd.1931
- Swingler, M.M.**, Perry, N.B, & Calkins S. D. (2015). Neural plasticity and early attention development: Intrinsic and extrinsic influences. *Development and Psychopathology*, *27*, 443-457. doi: 10.1017/S0954579415000085
- Swingler, M.M.**, Perry, N.B, Calkins, S.D., & Bell, M.A. (2014). Maternal sensitivity and infant response to frustration: The moderating role of EEG asymmetry. *Infant Behavior and Development*, *37*, 523-535. doi:10.1016/j.infbeh.2014.06.010
- Perry, N. B., Nelson, J. A., **Swingler, M. M.**, Leerkes, E. M., Calkins, S. D., Marcovitch, S., & O'Brien, M. (2013). The relation between maternal emotional support and child physiological regulation across the preschool years. *Developmental Psychobiology*, *55*, 382-394. doi:10.1002/dev.21042
- Calkins, S.D. & **Swingler, M.M.** (2012). Psychobiological measures of temperament. In M. Zetner & R. Shiner (Eds). *The Handbook of Temperament*. NY: Guilford Press, 229- 247.
- Cuevas, K., **Swingler, M.M.**, Bell, M.A., Marcovitch, S., & Calkins, S.D. (2012). Measures of frontal functioning and the emergence of inhibitory control processes at 10 months of age. *Developmental Cognitive Neuroscience*, *2*, 235-243. doi:10.1016/j.dcn.2012.01.002
- Swingler, M.M.**, Willoughby, M.T. & Calkins, S.D. (2011). EEG power and coherence during preschoolers' performance of an executive function battery. *Developmental Psychobiology*, *53*, 771-784. doi: 10.1002/dev.20588
- Swingler, M.M.**, Sweet, M.A. & Carver, L.J. (2010). Brain-behavior correlations: Relationships between mother-stranger face processing and infants' behavioral responses to a separation from mother. *Developmental Psychology*, *46*, 669-680. doi: 10.1037/a0018907
- Swingler, M.M.**, Sweet, M.A., & Carver, L.J. (2007). Relations between mother-child interactions and the neural correlates of face processing in 6-month-olds. *Infancy*, *11*, 63-86.

PUBLICATIONS SUBMITTED OR IN PREPARATION

Mills-Koonce, W.R., Towe-Goodman, N. R., **Swingler, M.M.** (Submitted). Profiles of family-based risk experiences predict early developmental outcomes for children in low-income, rural communities. Submitted to *Developmental Psychology*.

Towe-Goodman, N. R., Mills-Koonce, W.R., **Swingler, M.M.**, & O'Connor, T. (In Prep). Profiles of early family-based risk experiences in low-income, rural communities and inflammation in adolescence.

Swingler, M.M., Mills-Koonce, W.R., Calkins, S.D., Keane, S., O'Brien, M., & Shanahan, L. (In prep). The predictive power of vagal reactivity at two years on externalizing and internalizing behaviors in preschool.

TALKS AND PRESENTATIONS

Swingler, M.M., Cavanaugh, A., Murray, D.; Ridenour, T., (Accepted). Feasibility of Use of Biosensors and EMA to Examine Stress Experiences Among High-Poverty Adolescents Living in Rural Areas. Talk to be given at Society for Prevention Research Annual Meeting, Washington, D.C. Not presented due to COVID-19.

Leerkes, E.M., Bailes, L., **Swingler, M.M.**, Augustine, M.A., Norcross, P.L. (July, 2020). Novel Predictors of Women's Social Cognition about Infant Crying: Sleep, Working Memory, and Inhibitory Control. Poster presented virtually at International Conference on Infant Studies.

Swingler, M.M.[‡], Mills-Koonce, W.R., Towe-Goodman, N. (March, 2019). Profiles of family-based risk experiences predict early developmental outcomes for children in low-income, rural communities. Talk given at Society for Research in Child Development Conference, Baltimore, MD. [‡]*Session Co-Chair: Multi-Faceted Risk Exposure and Outcomes through Early Adolescence.*

Swingler, M.M., Perry, N.B., Calkins, S. D., Bell, M.A. (April, 2017). Transactional associations between maternal intrusiveness and infant neural functioning. Talk given at Society for Research in Child Development Conference, Austin, TX. *Session Title: Early Caregiving Relationships and Children's Brain Development.*

Swingler, M.M.[‡], Perry, N.B., Calkins, S.D., Bell, M.A. (May, 2016). Probing the link between attention and emotion regulation: Effects of early maternal behavior and infant neural processes. Talk given at International Congress of Infant Studies Biennial Meeting, New Orleans, LA. [‡]*Session Chair: Predictors of Emotional Regulation and Dysregulation in Infancy.*

- Swingler, M.M.** & Calkins, S.D. (February, 2016). Integrating cognition and emotion in early development: Brain, behavior, & environment. Talk given at Carolina Consortium on Human Development, Center for Developmental Science, University of North Carolina at Chapel Hill, Chapel Hill, NC. *Semester Topic: Cognitive Development from a Neuroscience Perspective.*
- Swingler, M.M.** (June, 2012). Emotion regulation during infancy: The contribution of maternal positive affect and infant neurophysiology to behavioral regulation during frustration. Talk given at International Congress of Infant Studies Biennial Meeting, Minneapolis, MN.
- Swingler, M.M.** (December, 2011). EEG power and coherence during preschoolers' performance of an executive function battery. Talk given in Developmental Lecture Series, Department of Psychology, University of North Carolina at Greensboro, Greensboro, NC.
- Swingler, M.M.** (December, 2011). EEG and ERP measures of brain function, organization, and development in infants and toddlers. Talk given at Biophysiological Measurement Conference, sponsored by The Child and Family Research Network, UNC-Greensboro, Greensboro, NC.
- Swingler, M.M.** & Carver, L.J. (March, 2007). Brain-behavior correlations in the development of face processing. Talk given at Society for Research in Child Development pre-conference on face processing, Boston, MA.
- Cox*, M.**, & Carver, L.J. (June, 2003). The role of attachment behaviors in six-month-olds ERPs to pictures of their mother and a stranger. Graduate student presentation series, Department of Psychology, University of California at San Diego, La Jolla, CA.

Presenting author poster presentations

- Swingler, M.M.**, Tilley, D., Leerkes, E.M. (March, 2019). Baseline EEG asymmetry in women is associated with responses to infant distress cues. Poster presented at Society for Research in Child Development Conference, Baltimore, MD.
- Swingler, M.M.**, Isbell, E., Halliday, S., Calkins, S.D., & Leerkes, E.M. (November, 2016). Neural correlates of executive function in preschool children: Associations with academic school readiness. Poster presented at 49th annual International Society for Developmental Psychobiology Meeting, San Diego, CA.
- Swingler, M.M.**, & Carver, L.J. (March, 2009). Relations between age, behavior, and the neural

correlates of face recognition in toddlers. Poster presented at Society for Research in Child Development Meeting, Denver, CO.

Swingler, M.M., & Carver, L.J. (June, 2007). The neural correlates of the development of self-recognition in the second year of life. Poster presented at the Jean Piaget Society Meeting, Amsterdam, NL.

Cox*, M. & Carver, L. J. (October, 2005). Electrophysiological correlates of the emergence of self-recognition. Poster presented at Cognitive Development Society Meeting, San Diego, CA.

Cox*, M., & Carver, L.J. (May, 2004). The role of attachment behaviors in 6-month-olds' face processing: Neural correlates. Poster presented at International Congress of Infant Studies Biennial Meeting, Chicago, IL.

* = maiden name

Non-presenting author poster presentations

Whedon, M.[‡], **Swingler, M.M.**, Calkins, S.D., & Bell, M.A. (July, 2018). Functional segregation of prefrontal and motor cortices across infancy is related to language competence in children. Poster presented at International Congress of Infant Studies Biennial Meeting, Philadelphia, PA.

Tilley, D.N.[‡], Norcross, P.L.[‡], **Swingler, M.M.**, & Leerkes, E.M. (July, 2018). Women's sleep deprivation predicts poor inhibitory control when exposed to infant crying. Poster presented at International Congress of Infant Studies Biennial Meeting, Philadelphia, PA.

Bailes, L.G.[‡], Augustine, M.E., **Swingler, M.M.**, & Leerkes, E.M. (July, 2018). Emotional responses and executive functioning predict women's causal attributions about infant crying. Poster presented at International Congress of Infant Studies Biennial Meeting, Philadelphia, PA.

Isbell, E., Calkins, S. D., Cole, V. T., **Swingler, M. M.**, & Leerkes, E. M. (March, 2018). Longitudinal associations between neural indices of conflict monitoring and emergent academic skills. Poster presented at Cognitive Neuroscience Society Annual Meeting, Boston, MA.

Diaz, A., **Swingler, M.M.**, Calkins, S.D., & Bell, M.A. (May, 2016). Infant frontal EEG asymmetry moderates the association between maternal behavior and toddler negative affectivity. Poster presented at International Conference on Infant Studies, New Orleans, LA.

- Halliday, S.[‡], O'Brien, M., **Swingler, M.M.**, Calkins, S.D., & Leerkes, E. (October, 2015). Learning engagement and executive functioning in preschool as predictors of kindergarten achievement. Poster presented at Cognitive Development Society meeting, Columbus, OH.
- Zeytinoglu, S.[‡], **Swingler, M.M.**, Calkins, S.D., O'Brien, M., & Leerkes, E. (October, 2015). The joint contribution of maternal cognitive control and emotional supportiveness on child cognitive control. Poster presented at Cognitive Development Society meeting, Columbus, OH.
- Bell, M.A., Cuevas, K., Diaz, A., Calkins, S.D., Marcovitch, S., & **Swingler, M.M.** (March, 2013). Behavioral and electrophysiological indices of negative affect in different contexts during infancy. Poster presented at Society for Research in Child Development meeting, Seattle, WA.
- Perry, N.B.[‡], Nelson, J.A., **Swingler, M. M.**, & Leerkes, E. M. (March, 2011). Vagal tone suppression across the preschool years: The predictive role of early maternal responsiveness. Poster presented at the Society for Research in Child Development Conference, Montreal, Canada.
- Chatley, N.D.[‡], **Swingler, M.M.**, Marcovitch, S., Calkins, S.D. & Bell, M.A. (March, 2011). Controlling your emotion leads to improved inhibitory control. Poster presented at Society for Research in Child Development meeting, Montreal, Canada.
- Kelleher, R.T., **Swingler, M.M.**, & Calkins, S.D. (March, 2011). Effects of child vagal regulation and maternal sensitivity on child trajectories of inattention. Poster presented at Society for Research in Child Development meeting, Montreal, Canada.

‡ = graduate student first author

RESEARCH INTERESTS

- Psychophysiological and neural underpinnings of early social, emotional, and cognitive behavior and development
- Caregiver influences on behavioral and psychophysiological indices of early social, emotional, and cognitive development
- Potential interactions between child psychophysiological and neural processes and environmental factors like caregiving on early social, emotional, and cognitive development

RESEARCH FUNDING

External Funding**R01 HD081252** (Funding Period 04/01/2015 - 03/31/2021)*Family Life Project: Stress, Self-Regulation and Psychopathology in Middle Childhood,**PI: Clancy Blair (NYU)*

Role: Subcontract PI

Funding Agency: NICHD

1UH3OD023332 (Funding Period 09/1/2018 - 08/31/2023)*Early Life Stress and the Environmental Origins of Disease: A Population-based Prospective Longitudinal Study of Children in Rural Poverty,**PI: Clancy Blair (NYU)*

Role: Subcontract PI

Funding Agency: NIH

Completed External Funding**R01HD074807** (Funding Period 08/01/2015 - 06/30/2020)*FLP Obesity Grant in conjunction with the University of Pennsylvania State University,**PI: Lori Francis (PSU)*

Role: Subcontract Co-I

Funding Agency: NICHD

R01 HD049878 (Funding period 3/1/2013 - 2/28/2018)*Psychobiology of Cognitive Development, PI: Martha Ann Bell (VT)*

Role: Co-I

Funding Agency: NIH, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)

Internal Funding*Building an intelligent EMA system to study the feasibility of conducting EMA studies on at risk children and adolescents*

Funded 4/1/20 – 3/31/21

Amount: \$50,000

Role: Investigator

Funded by: NCTraCS Translational Research Matched Pilot Grants, UNC-CH

Neural Processes of Attention, Cognition, and Emotion in Middle Childhood

Complete 2017

Amount: \$8,525

Role: Co-Investigator with Dr. Susan Calkins

Funded by: Human and Environmental Sciences Foundation, School of Health and Human Sciences, UNC-Greensboro

Functional and Anatomical Correlates of Attention and Emotion Regulation in Middle Childhood

Complete 2017

Amount: \$5,000

Role: Co-Investigator with Dr. Susan Calkins

Faculty First Summer Scholarship Award

Funded by: Office of Research and Economic Development, UNC-Greensboro

TEACHING EXPERIENCE

- February 2016** **Guest Lecture:** *“Infant Attention and EEG, & ERP Methodology for Studying Infant Development”*
 Department of Human Development, UNCG
 Graduate Seminar: Biopsychosocial Processes in Human Development
 Instructor: Dr. Susan Calkins
- September, 2015** **Guest Lecture:** *“Cognitive Development in the First 3 Years”*
 Department of Human Development, UNCG
 Undergraduate Course: Human Development across the Lifespan
 Instructor: Dr. Nicole Perry
- April 2014** **Guest Lecture:** *“Infant Cognitive Development”*
 Department of Human Development, UNCG
 Graduate Seminar: Biopsychosocial Processes in Human Development
 Instructor: Dr. Susan Calkins
- 2006 – 2007** **Graduate Student Section Instructor**
 Departments of Psychology and Human Development
 University of California at San Diego
- 2003 – 2008** **Graduate Student Teaching Assistant**
 Departments of Psychology and Human Development
 University of California at San Diego

Teaching Assistant and Section Instructor:

- Introduction to Statistics (Spring 2006)
 - Course Instructor: Dr. Monica Sweet
- The Developing Mind (Fall 2007)
 - Course Instructor: Dr. Monica Sweet

Teaching Assistant:

- Physiological Psychology (Winter 2002, Winter 2005, Spring 2007)
 - Winter 2002 Instructor: Dr. Karen Dobkins
 - Winter 2005 Instructor: Dr. Michael Gorman
 - Spring 2007 Instructor: Dr. Jennifer Sage
- Cognitive Development in Infancy (Fall 2003)
 - Instructor: Dr. Leslie Carver
- Introduction to Psychology: Biological Foundations (Spring 2004, Fall 2005, Winter 2008)

- Spring 2004 and Fall 2005 Instructor: Dr. Jennifer Sage
- Winter 2008 Instructor: Dr. Aimee Wilson
- Human Development Seminar Series: The Social Mind (Fall 2004)
 - Organizers: Dr. Leslie Carver, Dr. Gail Heyman, Dr. Kang Lee
- Developmental Psychology (Spring 2005, Spring 2008)
 - Spring 2005 Instructor: Dr. Monica Sweet
 - Spring 2008 Instructor: Dr. David Lui
- Human Sexuality (Summer Session II 2005, 2006, 2007)
 - Instructor: Dr. Amanda Roberts
- The Development of Social Cognition (Summer Session II 2005)
 - Instructor: Dr. Monica Sweet
- Introduction to Psychology: General Psychology (Fall 2006)
 - Instructor: Dr. Paul Romanowich
- Clinical Neuropsychology and Assessment (Winter 2006)
 - Instructor: Dr. Fred Rose
- Social Development (Winter 2008)
 - Instructor: Dr. Monica Sweet

SERVICE

2018	Strategic Planning Task Force Member	Frank Porter Graham Child Development Institute, UNC-CH
2008	Teaching Assistant Mentor	Department of Psychology, UC San Diego
2004	Graduate Student Representative (Peer elected)	Department of Psychology, UC San Diego
2003	Colloquium Committee (Peer elected)	Department of Psychology, UC San Diego

PROFESSIONAL AFFILIATIONS

Cognitive Development Society (CDS)
 International Society for Infant Studies (ISIS)
 Society for Research in Child Development (SRCD)
 International Society for Developmental Psychobiology (ISDP)

Journal Reviewer:

Child Development
 Developmental Psychology
 Developmental Psychobiology
 Infant and Child Development
 Social Development
 Journal of Experimental Child Psychology
 Frontiers in Psychology

Cognitive Development
Human Brain Mapping
Frontiers in Personality Science and Individual Differences

Conference Submissions Reviewer:

Society for Research in Child Development (SRCD) Biennial Meeting
Cognitive Development Society (CDS) Meeting
International Conference on Infant Studies (ICIS)