

## CURRICULUM VITAE

Margaret Ruth Burchinal

### Personal Information

#### Address:

FPG Child Development Institute  
216 Sheryl Mar Building  
CB# 8185  
University of North Carolina at Chapel Hill  
Chapel Hill, NC 27599-8185  
phone: (919) 966-5059  
fax: (919) 962-5771

Home: 515 Oak Crest Drive  
Chapel Hill, NC 27516  
(919) 942-1066

#### Birth Information:

Date: June 16, 1951  
Place: Columbus, Ohio

### Educational Background

- Ph.D. 1986 University of North Carolina at Chapel Hill  
Quantitative Psychology, December, 1986  
Dissertation: *Methods for Estimating Individual Developmental Functions*
- M.A. 1978 University of North Carolina at Chapel Hill  
Special Education, December, 1978  
Thesis: *The Contingent Relationship of Mother and Infant Behaviors in Dyadic Interactions*
- B.S. 1976 Iowa State University  
Psychology, June, 1976  
Summa Cum Laude

### Professional Experience

- September 2007-present Professor  
Department of Education  
University of California at Irvine
- November 2002-present Senior Scientist  
Frank Porter Graham Child Development Institute  
University of North Carolina at Chapel Hill
- May 2002-present Research Professor  
Developmental Division  
Department of Psychology  
University of North Carolina at Chapel Hill
- September 1999-present Adjunct Professor  
Department of Biostatistics  
University of North Carolina at Chapel Hill

- May 1996-May 2002      Research Associate Professor  
Developmental Division  
Department of Psychology  
University of North Carolina at Chapel Hill
- February 1992-present      Director of the Design and Statistical Computing Unit  
Frank Porter Graham Child Development Institute  
University of North Carolina at Chapel Hill
- January 1990-May 1996      Research Assistant Professor  
L.L. Thurstone Psychometric Laboratory  
Department of Psychology  
University of North Carolina at Chapel Hill
- November 1989-present      Investigator  
Frank Porter Graham Child Development Institute  
University of North Carolina at Chapel Hill
- Sept. 1986-April 1987      Visiting Scholar  
Developmental Psychology Department  
Leiden University, Leiden, the Netherlands

### **Other Professional Activities**

Associate Editor for:

*Early Childhood Research Quarterly* (July 2006 - )  
*Child Development* (July 2007 – June 2013)

Past or Present Reviewer for:

*Child Development*  
*Early Childhood Research Quarterly*  
*Monographs of the Society for Research in Child Development*  
*Psychological Methods*

Guest Reviewer for:

*Demography*  
*Developmental Psychology*  
*Journal of Abnormal Child Psychology*  
*Journal of American Statistical Association*  
*Journal of Autism and Developmental Disorders*  
*Journal of Early Intervention*  
*Journal of Family Psychology*

Special Panel Reviewer for:

Maternal and Child Health Bureau (November 1993; June 1998)  
National Institute of Child Health and Human Development (September 1999;  
April 2001; August 2001; October 2001; March 2002; October 2002; April 2003;  
November 2003; March 2005; July 2005; March 2006)  
Department of Education (April 2002; September 2002; April 2004; January  
2005)

Panel Reviewer for:

Maternal and Child Health Bureau (June 1999-November 2004)

Institute of Educational Sciences, US Department of Education (August 2005-March 2010)

NIH Biobehavioral and Behavioral Sciences Subcommittee (July 2006-July 2010)

Member of Advisory Board:

Advisory Council for Educational Statistics-Advisory Board for the National Center for Educational Statistics (August 2001-October 2002)

Technical Work Group for Head Start National Reporting System (January 2003-June 2005)

Advisory Board for Research Bureau of the Maternal and Child Health Bureau (June 2003)

Research Advisory Council for Head Start (February 2002-2006)

Advisory Board for the Puerto Rico Comprehensive Center for the Study of HIV Disparities (July 2004-July 2010)

Technical Work Group for Early Reading First Evaluation (February 2004-March 2007)

Advisory Board for the Los Angeles Universal Pre-Kindergarten Program (June 2005-ongoing)

Technical Work Group for the Family and Child Experiences Survey (FACES) (January 2006-ongoing)

Governing Board for the Appalachian Regional Educational Laboratory (August 2006-June 2009)

National Research Council: Committee on Developmental Outcomes and Assessment for Young Children (April 2007-June 2009)

Advisory Board for the Head Start Migrant Study (January 2008-ongoing)

Advisory Board for the Baby FACES (January 2008-ongoing)

National Research Council: Science of Research on Families Workshop (March 2010 – Sept 2011)

National Research Council: Early Care and Education Workshop (March 2011)

Secretary's Advisory Council for Head Start Evaluation and Research (January 2011-ongoing)

National Research Council: Leading Educational Indicators Workshop (December 2011- April 2012)

W.T. Grant Foundation: Member of Board of Trustees (2012-ongoing )

**Professional Organizations**

National Association for the Education of Young Children

Society for Research in Child Development, past chairman of the Publication Committee

Society for Educational Evaluation

**Publications in Peer-Reviewed Journals**

*Publications In 2016*

- Burchinal, M., Zaslow, M., Tarullo, L., (2016). Quality thresholds, features, and dosage in early care and education: Secondary data analyses of child outcomes. *Monographs of SRCD, 81(2)*, DOI: 10.1111/mono.12236
- Buyse, V., Peisner-Feinberg, E., Soukakou, E., Fettig, A., Schaaf, J., & Burchinal, M. (2016). Using Recognition & Response (R&R) to improve children's language and literacy skills: Findings from two studies. *Early Childhood Research Quarterly, 36*, 11-20.
- Hatfield, B. E., Burchinal, M. R., Pianta, R. C., & Sideris, J. (2016). Thresholds in the association between quality of teacher-child interactions and preschool children's school readiness skills. *Early Childhood Research Quarterly, 36*, 561-571.
- Li, K., Pan, Y., Hu, B., Burchinal, M., De Marco, A., Fan, X., & Qin, J. (2016). Early childhood education quality and child outcomes in China: Evidence from Zhejiang Province. *Early Childhood Research Quarterly, 36*, 427-438.
- LoCasale-Crouch, J., DeCoster, J., Cabell, S. Q., Pianta, R. C., Hamre, B. K., Downer, J. T., Burchinal, M., ... & LaParo, K. (2016). Unpacking intervention effects: Teacher responsiveness as a mediator of perceived intervention quality and change in teaching practice. *Early Childhood Research Quarterly, 36*, 201-209.
- Jenkins, J. M., Farkas, G., Duncan, G. J., Burchinal, M., & Vandell, D. L. (2016). Head Start at ages 3 and 4 versus Head Start followed by state Pre-K. Which Is more effective? *Educational evaluation and policy analysis, 38(1)*, 88-112.
- Vandell, D. L., Burchinal, M., & Pierce, K. M. (2016). Early child care and adolescent functioning at the end of high school: Results from the NICHD Study of Early Child Care and Youth Development. *Developmental psychology, 52(10)*, 1634.

*Publications In 2015*

- Broekhuizen, M. L., Mokrova, I. L., Burchinal, M. R., & Garrett-Peters, P. (2015). Classroom quality at pre-kindergarten and kindergarten and children's social and behavioral skills. *Differential effects of early child care quality on children's socio-emotional development, 127*.
- Gallagher, M., Burwell, R., & Burchinal, M. (2015). Severity of spatial learning impairment in aging. *Behavioral Neuroscience, 129(4)*, 540-548.
- Yazejian, N., Bryant, D., Freel, K., & Burchinal, M. (2015). High-quality early education: Age of entry and time in care differences in student outcomes for English-only and dual language learners. *Early Childhood Research Quarterly, 32*, 23-39.

*Publications In 2014*

- Auger, A., Farkas, G., Burchinal, M. R., Duncan, G. J., & Vandell, D. L. (2014). Preschool center care quality effects on academic achievement: An instrumental variables analysis. *Developmental psychology, 50(12)*, 2559.

- Burchinal, M. R., Lowe Vandell, D., & Belsky, J. (2014). Is the prediction of adolescent outcomes from early child care moderated by later maternal sensitivity? Results from the NICHD Study of Early Child Care and Youth Development. *Developmental Psychology, 50*(2), 542.
- Burchinal, M., Vernon-Feagans, L., Vitiello, V., & Greenberg, M. (2014). Thresholds in the association between child care quality and child outcomes in rural preschool children. *Early Childhood Research Quarterly, 29*(1), 41-51.
- Grewen, K., Burchinal, M., Vachet, C., Gouttard, S., Gilmore, J. H., Lin, W., ... & Gerig, G. (2014). Prenatal cocaine effects on brain structure in early infancy. *NeuroImage, 101*, 114-123.
- Groh, A. M., Roisman, G. I., Booth-LaForce, C., Fraley, R. C., Owen, M. T., Cox, M. J., & Burchinal, M. R. (2014). IV. Stability of attachment security from infancy to late adolescence. *Monographs of the Society for Research in Child Development, 79*(3), 51-66.
- Harris, T., Sideris, J., Serpell, Z., Burchinal, M., & Pickett, C. (2014). Domain-Specific Cognitive Stimulation and Maternal Sensitivity as Predictors of Early Academic Outcomes among Low-Income African American Preschoolers. *The Journal of Negro Education, 83*(1), 15-28.
- Peisner-Feinberg, E., Buysse, V., Fuligni, A., Burchinal, M., Espinosa, L., Halle, T., & Castro, D. (2014). Using early care and education quality measures with dual language learners: A review of the research. *Early Childhood Research Quarterly, 29*(4), 499-508.
- Pianta, R. C., Burchinal, M., Jamil, F. M., Sabol, T., Grimm, K., Hamre, B. K., ... & Howes, C. (2014). A cross-lag analysis of longitudinal associations between preschool teachers' instructional support identification skills and observed behavior. *Early Childhood Research Quarterly, 29*(2), 144-154.
- Pianta, R. C., DeCoster, J., Cabell, S., Burchinal, M., Hamre, B. K., Downer, J., ... & Howes, C. (2014). Dose-response relations between preschool teachers' exposure to components of professional development and increases in quality of their interactions with children. *Early Childhood Research Quarterly, 29*(4), 499-508.
- Rutherford, T., Farkas, G., Duncan, G., Burchinal, M., Kibrick, M., Graham, J., ... & Martinez, M. E. (2014). A Randomized Trial of an Elementary School Mathematics Software Intervention: Spatial-Temporal (ST) Math. *Journal of Research on Educational Effectiveness*, (just-accepted).
- Ruzek, E., Burchinal, M., Farkas, G., & Duncan, G. J. (2014). The quality of toddler child care and cognitive skills at 24 months: Propensity score analysis results from the ECLS-B. *Early childhood research quarterly, 29*(1), 12-21.
- Winsler, A., Burchinal, M. R., Tien, H. C., Peisner-Feinberg, E., Espinosa, L., Castro, D. C., ... & De Feyter, J. (2014). Early development among dual language learners: The roles of language use at home, maternal immigration, country of origin, and socio-demographic variables. *Early Childhood Research Quarterly, 29*(4), 499-508.

*Publications In 2013*

- Burchinal, M., & Willoughby, M. (2013). IV. Poverty and associated social risks: toward a cumulative risk framework. *Monographs of the Society for Research in Child Development, 78*(5), 53-65.
- Dotterer, A. M., Burchinal, M., Bryant, D., Early, D., & Pianta, R. C. (2013). Universal and targeted pre-kindergarten programs: a comparison of classroom characteristics and child outcomes. *Early Child Development and Care, 183*(7), 931-950.
- Li, W., Farkas, G., Duncan, G. J., Burchinal, M. R., & Vandell, D. L. (2013). Timing of high-quality child care and cognitive, language, and preacademic development. *Developmental psychology, 49*(8), 1440.
- Key, T.D., Farkas, G., Burchinal, M.R., Duncan, G., Vandell, D.L., Li, W., Ruziel, E.A., & Howes, C. (2013). Preschool center quality and school readiness: Quality effects and variation by demographic and child characteristics. *Child Development, 84*(4), 1171-1190.
- Richland, L. E., & Burchinal, M. R. (2013). Early executive function predicts reasoning development. *Psychological Science, 24*(1) 87 –92.
- Sabol, T. J., Hong, S. S., Pianta, R. C., & Burchinal, M. R. (2013). Can Rating Pre-K Programs Predict Children's Learning? *Science, 341*(6148), 845-846.
- Willoughby, M., Burchinal, M., Garrett-Peters, P., Mills-Koonce, R., Vernon-Feagans, L., & Cox, M. (2013). II. Recruitment of the family life project sample.. *Monographs of the Society for Research in Child Development, 78*(5), 24-35.

*Publications In 2012*

- Burchinal, M., Field, S., López, M. L., Howes, C., & Pianta, R. (2012). Instruction in Spanish in pre-kindergarten classrooms and child outcomes for English language learners. *Early Childhood Research Quarterly, 27*(2), 188-197.
- Campbell, F. A., Pungello, E. P., Burchinal, M., Kainz, K., Pan, Y., Wasik, B. H., Sparling, J. & Ramey, C. T. (2012). Adult outcomes as a function of an early childhood educational program: an Abecedarian Project follow-up. *Developmental psychology, 48*(4), 1033.
- Hamre, B. K., Pianta, R. C., Burchinal, M., Field, S., LoCasale-Crouch, J., Downer, J. T., ... & Scott-Little, C. (2012). A Course on Effective Teacher-Child Interactions Effects on Teacher Beliefs, Knowledge, and Observed Practice. *American Educational Research Journal, 49*(1), 88-123.
- Kainz, K., Willoughby, M. T., Vernon-Feagans, L., & Burchinal, M. R. (2012). Modeling Family Economic Conditions and Young Children's Development in Rural United States: Implications for Poverty Research. *Journal of Family and Economic Issues, 33*(4), 410-420.

Tran, N. A., Schneider, S., Duran, L., Conley, A., Richland, L., Burchinal, M., ... & Martinez, M. E. (2012). The effects of mathematics instruction using spatial temporal cognition on teacher efficacy and instructional practices. *Computers in Human Behavior*, 28(2), 340-349.

#### *Publications In 2011*

Burchinal, M., McCartney, K., Steinberg, L., Crosnoe, R., Friedman, S. L., McLoyd, V., & Pianta, R., & NICHD ECCRN (2011). Examining the Black-White achievement gap among low-income children using the NICHD Study of Early Child Care and Youth Development. *Child Development*, 82, 1404-1420.

Haden, C. A., Ornstein, P. A., O'Brien, B. S., Elischberger, H. B., Tyler, C. S., & Burchinal, M. J. (2011). The development of children's early memory skills. *Journal of experimental child psychology*, 108(1), 44-60.

Holditch-Davis, D., Miles, M., S., Burchinal, M. R. & Goldman, B., G (2011). Maternal role attainment with medically fragile infants: Part 2: relationship to the quality of parenting. *Research in Nursing and Health* 34, 35-48.

Scott-Little, C., La Paro, K., Thomason, A.C., Pianta, R., Hamre, B., Downer, J., Burchinal, M., & Howes, C. (2011). Implementation of a course focused on language and literacy within teacher-child interactions: Instructor and student perspectives across three institutions of higher education. *Journal of Early Childhood Teacher Education*, 32, 200-224.

#### *Publications In 2010*

Burchinal, M., Skinner, D., & Reznick, S., (2010). European American and African American mothers' beliefs about parenting and disciplining infants: A mixed-method analysis. *Parenting: Science and Practice*, 10, 79-96.

Cadima, J., Leal, T., & Burchinal.,M., (2010). The quality of teacher-student interactions: Associations with first graders' academic and social outcomes. *Journal of School Psychology*, 48, 457-482.

Campbell, S. B., Spieker, S., Vandergrift, N., Belsky, J., Burchinal, M., & NICHD ECCRN. (2010). Predictors and sequelae of trajectories of physical aggression in school-age boys and girls. *Development and Psychopathology*, 22, 133-150.

Chien, N.C., Howes, C., Burchinal, M., Pianta, R., Ritchie, S., Bryant, D., Clifford, R., Early, & D., Barbarin, O. (2010). Children's Classroom Engagement and Gains in Academic and Social-Emotional Outcomes across Pre-Kindergarten. *Child Development*, 81, 1534-1544.

Crosnoe, R., Morrison, F., Burchinal, M., Pianta, R., Keating, D., Friedman, S., Clarke-Stewart, K., & the NICHD ECCRN (2010). Instruction, teacher-student relations, and math achievement trajectories in elementary school. *Journal of Educational Psychology*, 102, 407-417.

Early, D.M., Iruka, I.U., Barbarin, O.A., Winn, D.M., Crawford, G., Frome, P, Clifford, R., Burchinal, M, Howes, C., Bryant, D., & Pianta, R. (2010). How do pre-kindergarteners spend their time? Gender, ethnicity, and income as predictors of experiences in pre-kindergarten classrooms. *Early Childhood Research Quarterly*, 25, 177-193

- Grimm, K. J., Steele, J. S., Mashburn, A. J., Burchinal, M., & Pianta, R. C. (2010). Early behavioral associations of achievement trajectories. *Developmental Psychology, 46*, 976-977.
- Hooper, S., Longitudinal predictors of reading and math trajectories through middle school for African American versus Caucasian students across two samples. *Developmental Psychology, 46*, 1018-1028.
- Iruka, I. U., Burchinal, M., & Cai, K. (2010). Long-term effect of early relationships for African American children's academic and social development: An examination from kindergarten to fifth grade. *Journal of Black Psychology, 36*, 144-171.
- McCartney, K., Burchinal, M., Clarke-Stewart, A., Bub, K. L., Owen, M. T., Belsky, J., & NICHD ECCRN. (2010). Testing a series of causal propositions relating time in child care to children's externalizing behavior. *Developmental Psychology, 46*, 1-17.
- Pianta, R. C., Burchinal, M., Barnett, E. S., & Thornburg, K. (2010). Preschool in the United States: What we know, what we need to know, and implications for policy and research. *Psychological Science in the Public Interest, 10*, 49-88.
- Powell, D.R., Diamond, K.E., Burchinal, M.R., & Koehler, M.J. (2010). Effects of an early literacy Professional development intervention on Head Start teachers and children. *Journal of Educational Psychology, 102*, 299-312.
- Pungello, E. P., Kainz, K., Burchinal, M., Wasik, B. H., Sparling, J., Ramey, C. T., & Campbell, F. (2010). Early educational intervention, early cumulative risk, and the early home environment as predictors of young adult outcomes within a high-risk sample. *Child Development, 81*, 410-426.
- Vandell, D.L., Belsky, U., Burchinal, M., Steinberg, L., Vandergrift, N., & NICHD ECCRN (2010). Do effects of early child care extend to age 15 years? Results from the NICHD Study of Early Child Care and Youth Development. *Child Development, 81*, 737-756.

#### *Publications in 2009*

- Burchinal, P., Kainz, K., Cai, K., Tout, K., Zaslow, M., Martinez-Beck, I. & Rathgeb, C. (May 2009). *Early care and education quality and child outcomes*. Washington, DC: Office of Planning, Research and Evaluation, Administration for Children and Families, US DHHS, and Child Trends.
- Burchinal, M., Vandergrift, N., Pianta, R., & Mashburn, A., (2009). Threshold analysis of association between child care quality and child outcomes for low-income children in pre-kindergarten programs. *Early Childhood Research Quarterly, 25*, 166-176.
- Curby, T. W., Locasale-Crouch, J., Konold, T. R., Pianta, R. C., Howes, C., Burchinal, M., Bryant, D., Clifford, R., Early, D., & Barbarin, O. (2009). The relations of observed pre-k classroom quality profiles to children's achievement and social competence. *Early Education & Development, 20*, 346-372.
- Early, D. M., Iruka, I. U., Ritchie, S., Barbarin, O. A., Winn, D. C., Crawford, G. M., Frome, P. M., Clifford, R. M., Burchinal, M., Howes, C., Bryant, D. M., & Pianta, R. C. (2009). How do pre-kindergarteners spend their time? Gender, ethnicity and income as predictors of experiences in pre-kindergarten classrooms. *Early Childhood Research Quarterly, 25*, 177-193.

- La Paro, K. M., Hamre, B. K., Locasale-Crouch, J., Pianta, R. C., Bryant, D., Early, D., Clifford, R., Barbarin, O., Howes, C., & Burchinal, M. (2009). Quality in kindergarten classrooms: Observational evidence for the need to increase children's learning opportunities in early education classrooms. *Early Education & Development, 20*, 657-692.
- Penn, D. L., Meyer, P. S., Evans, E., Wirth, R. J., Cai, K., & Burchinal, M. (2009). A randomized controlled trial of group Cognitive-Behavioral Therapy versus Enhanced Supportive Therapy for auditory hallucinations. *Schizophrenia Research, 109*, 52 – 59.
- Pianta, R. C., Barnett, E. S., Burchinal, M & Thornburg, K. (2009). Preschool in the United States: What we know, what we need to know, and implications for policy and research. *Psychological Science in the Public Interest, 10*, 49-61.

#### *Publications in 2008*

- Barbarin, O. A., Early, D., Clifford, R., Bryant, D., Frome, P., Burchinal, M., Howes, C., & Pianta, R. (2008). Parental conceptions of school readiness: Relation to ethnicity, socioeconomic status, and children's skills. *Early Education & Development, 19*, 671-701.
- Burchinal, M. (2008). How measurement error affects the interpretation and understanding of effect sizes. *Child Development Perspectives, 2*, 178-188.
- Burchinal, M. R., Howes, C. Pianta, R., Bryant, D., Early, D., Clifford, R., & Barbarin, O. (2008). Predicting child outcomes at the end of kindergarten from the quality of pre-kindergarten teacher-child interactions and instruction. *Applied Developmental Science, 12*, 140-153.
- Burchinal, M. R., Hyson, M., & Zaslow, M. (2008). Competencies and credentials for early childhood educators: What do we know and what do we need to know? *NHSA Dialog, 11*(1), 1-7.
- Burchinal, M. R., Nelson, L., Carlson, M., & Brooks-Gunn, J. (2008). Neighborhood characteristics and child care type and quality. *Early Education and Development, 19*, 1-24.
- Burchinal, M. R., Roberts, J. E., Zeisel, S. A., & Rowley, S. J. (2008). Social risk and protective factors for African American children's academic achievement and adjustment during the transition to middle school. *Developmental Psychology, 44*, 286-292.
- Burchinal, M. R., Vernon-Feagans, L., & Cox, M. (2008). Cumulative social risk, parenting, and infant development in rural low-income communities. *Parenting: Science and Practice, 8*, 41-82.
- Campbell, F. A., Wasik, B. H., Pungello, E., Burchinal, M., Barbarin, O., Kainz, K., Sparling, J. J., & Ramey, C., (2008). Young adult outcomes from the Abecedarian and CARE early childhood educational interventions. *Early Childhood Research Quarterly, 23*, 452-466.
- Howes, C., Burchinal, M., Pianta, R., Bryant, D., Early D. M., & Clifford, R. (2008). Ready to learn? Children's pre-academic achievement in pre-kindergarten programs. *Early Childhood Research Quarterly, 23*, 27-50.
- Mashburn, A. J., Pianta, R. C., Hamre, B., Downer, J., Barbarin, O., Bryant, D., Burchinal, M., Early, D., & Howes, C. (2008). Measures of classroom quality in

prekindergarten and children's development of academic, language, and social skills. *Child Development*, 79, 732-749.

Powell, D. R., Burchinal, M., File, N., & Kontos, N. (2008). An eco-behavioral analysis of children's engagement in urban public school preschool. *Early Childhood Research Quarterly*, 23, 108-123.

Rowley, S. J., Burchinal, M. R., Roberts, J. E., & Zeisel, S. A., (2008). Racial identity, social context, and race-related social cognition in African Americans during middle childhood. *Developmental Psychology*, 44, 1537-1546.

Willoughby, M., Cardigan, J., Burchinal, M., & Skinner, D. (2008). An evaluation of the psychometric properties of and criterion validity of the Religious Social Support Scale. *Journal for the Scientific Study of Religion*, 47, 147-159.

Zolotar, A. J, Burchinal, M., Skinner, D., Rosenthal, M. and the Key Family Life Project Investigators (2008). Maternal psychological adjustment and knowledge of infant development as predictors of home safety practices in rural low-income communities. *Pediatrics*, 121 (online), 1668-1675.

#### *Publications in 2007*

Belsky, J., Vandell, D. L., Burchinal, M., Clarke-Stewart, K. A., McCartney, K., Owen, M. T., & the NICHD Early Child Care Research Network. (2007). Are there long-term effects of early child care? *Child Development*, 78(2), 681-701.

Burchinal, M.R., & Clarke-Stewart, K.A. (2007). Maternal employment and child cognitive outcomes: The importance of analytic approach. *Developmental Psychology*, 43(5), 1140-1155.

Chang, F., Crawford, G., Early D., Bryant D., Howes, C., Burchinal, M., Barbarin, O., Clifford, R., & Pianta, R. (2007). Spanish-speaking children's social and language development in pre-kindergarten classrooms. *Early Education and Development*, 18(2), 243-269.

Early, D. M., Maxwell, K. L., Burchinal, M., Alva, S., Bender, R. H., Bryant, D., Cai, K., Clifford, R. M., Ebanks, C., Griffin, J. A., Henry, G. T., Howes, C., Iriondo-Perez, J., Jeon, H. J., Mashburn, A. J., Peisner-Feinberg, E., Pianta, R. C., Vandergrift, N., & Zill, N. (2007). Teachers' education, classroom quality, and young children's academic skills: Results from seven studies of preschool programs. *Child Development*, 78(2), 558-580.

LoCasale-Crouch, J., Konold T., Pianta, R., Howes, C., Burchinal, M., Bryant, D., Clifford, R., Early, D., & Barbarin, O. (2007). Observed classroom quality profiles in state-funded pre-kindergarten programs and associations with teacher, program, and classroom characteristics. *Early Childhood Research Quarterly*, 22(3), 3-17.

Roberts, J., Price, J., Nelson, L., Burchinal, M., Hennon, E., Barnes, E., Moskowitz, L., Edwards, A., Malkin, C., Anderson, K., Misenheimer, J., & Hooper, S. R. (2007). Receptive vocabulary, expressive vocabulary, and speech production of boys with fragile X syndrome in comparison to boys with Down syndrome. *American Journal on Mental Retardation*, 112, 177-193.

#### *Publications in 2006*

Barbarin, O., Bryant, D., McCandies, T., Burchinal, M., Early, D., Clifford, R., Pianta, R. & Howes, C. (2006). Children enrolled in public pre-K: The relation of family life,

neighborhood quality, and socioeconomic resources to early competence. *American Journal of Orthopsychiatry*, 76(2), 265-276.

- Barbarin, O. A., McCandies, T., Early, D., Clifford, R. M., Bryant, D., Burchinal, M., Howes, C., & Pianta, R. (2006). Quality of pre-K: What families are looking for in public sponsored programs. *Early Education and Development*, 17, 619-642.
- Burchinal, M., Nelson, L., & Poe, M. (2006). Growth curve analysis: An introduction to various methods for analyzing longitudinal data. In K. McCartney, M. Burchinal, & K. Bub. (Eds.) Best practices in quantitative methods for developmentalists. *Monographs of the Society for Research in Child Development*, 71(3), 65-87.
- Burchinal, M., & Neebe, E. (2006). Data management: Recommended practices. In K. McCartney, M. Burchinal, & K. Bub (Eds.) Best practices in quantitative methods for developmentalists. *Monographs of the Society for Research in Child Development*, 71(3), 9-23.
- Burchinal, M., Roberts, J.E., Zeisel, S.A., Hennon, E.A., & Hooper, S. (2006). Social risk and protective child, parenting, and child care factors in early elementary school years. *Parenting: Science and Practice*, 6, 79-113.
- Campbell, S., Spieker, S., Burchinal, M., Poe, M. and NICHD Early Child Care Research Network. (2006). Trajectories of aggression from toddlerhood to age 9 predict academic and social functioning through age 12. *Journal of Child Psychology and Psychiatry*, 47 (8), 791-800.
- Early, D. M., Bryant, D., Pianta, R., Clifford, R., Burchinal, M., Ritchie, S., Howes, C., & Barbarin, O. (2006). Are teachers' education, major, and credentials related to classroom quality and children's academic gains in pre-kindergarten? *Early Childhood Research Quarterly*, 21, 174-195.
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### **Publications - Peer-Reviewed Chapters and Technical Reports**

- Burchinal, M & Forestieri, N (in press). What does it mean to be evidenced-based? In E. Votruba-Drzal & E. Dearing, E. (Eds.) *Handbook of Early Childhood Programs, Practices, and Policies*. Oxford, UK: Wiley-Blackwell.
- Burchinal, M., (2016). Large-scale evaluations of child care as a context for development: Implications for research and practice. In K Sanders & A. Wishard Guerra (Eds) *The Culture of Child Care: Attachment, Peers, and Quality in Diverse Communities*. Springer International Publishing.

- Burchinal, M., Magnuson, K., Powell, D., & Hong, S. S. (2015). Early child care and education and child development. In M. Bornstein, R. Lerner, & T. Leventhal (Eds.) *Handbook of Child Psychology and Developmental Science*.
- Vernon-Feagans, L., Burchinal, M., & Mokrova, I. (2015). Diverging Destinies in Rural America. In *Families in an Era of Increasing Inequality* (pp. 35-49). Springer International Publishing.
- Frye, D., Baroody, A. J., Burchinal, M., Carver, S. M., Jordan, N. C., & McDowell, J. (2013). Teaching Math to Young Children. Educator's Practice Guide. What Works Clearinghouse. NCEE 2014-4005. *National Center for Education Evaluation and Regional Assistance*.
- O'Brien, M., Weaver, J. M., Burchinal, M., Clarke-Stewart, K. A., & Vandell, D. L. (2013). Women's Work and Child Care. *Societal Contexts of Child Development: Pathways of Influence and Implications for Practice and Policy*, 37.
- Yoshikawa, H., Weiland, C., Brooks-Gunn, J., Burchinal, M. R., Espinosa, L. M., Gormley, W. T., Ludwig, J., Magnuson, K. A., Phillips, M. D. & Zaslow, M. J. & (2013). Investing in our future: The evidence base on preschool education. *Ann Arbor, Michigan: Society for Research in Child Development*.
- Halle, T. G., Hair, E. C., Burchinal, M., Anderson, R., & Zaslow, M. (2012). *In the running for successful outcomes: Exploring the evidence for thresholds of school readiness*. Technical Report.
- Appelbaum, M. I., Burchinal, M. R., & Terry, R. A. (2013). and the Search for Continuity. *Stability and Continuity in Mental Development: Behavioral and Biological Perspectives*, 251.
- Burchinal, M. R. (2013). " Developmental Plasticity and Predictability: Consequences of Ecological Change. *Stability and Continuity in Mental Development: Behavioral and Biological Perspectives*, 217.
- Burchinal, M., & Forestieri, N. (2011) Development of early literacy: Evidence from major U.S. longitudinal studies. In S. B. Neuman & D. K. Dickinson (Eds.), *Handbook of Early Literacy Research* (Vol. 3, pp. 85-96). New York, NY: Guilford Press.
- Burchinal, M., Kainz, K., & Cai, Y. (2011). How well do our measures of quality predict child outcomes? A meta-analysis and coordinated analysis of data from large-scale studies of early childhood settings. In M. Zaslow (Ed.) *Reasons to take stock and strengthen our measures of quality* (pp. 11-31). Baltimore, MD: Brooks Publishing.
- Bryant, D.M., Zaslow, M., & Burchinal, M. (2010). Issue in measuring quality programs. In P. Wesley & V Buysee (Eds) *The quest for quality: Promising innovations for each childhood programs*. (pp 47-68). Baltimore, MD: Brooks Publishing.
- Skinner, D., & Burchinal, M. (2008). Interdisciplinary research. In L. Givens (Ed.), *The SAGE encyclopedia of qualitative research methods*. Sage.
- Burchinal, M. (2005). Child care subsidies, quality, and preferences among low-income families. In N. Cabrera, S. Hutches, & E. Peters (Eds.), *From welfare to child*

- care: What happens to young children when mothers exchange welfare for work?* Mahwah, N.J.: Erlbaum.
- NICHD Early Child Care Research Network. (2005). *Child care and child development: Results from the NICHD Study of Early Child Care and Youth Development*. New York: The Guilford Press.
- Cox, M. J., Burchinal, M., Taylor, L. C., Frosch, C., Goldman, B., & Kanoy, K. (2004). The transition to parenting: Continuity and change in early parenting behavior and attitudes. In Conger, R.D. (Ed.) *Continuity and change: Family structure and process*. (pp. 201-240), Mahwah, N.J.: Erlbaum.
- NICHD Early Child Care Research Network. (2003). The NICHD Study of Early Child Care: Contexts of development and developmental outcomes over the first seven years of life. In J. Brooks-Gunn, A. S. Fuligni, & L. J. Berlin (Eds.), *Early child development in the 21st century* (pp. 181-201), New York: Teachers College Press.
- Roberts, J. E., Zeisel, S., Burchinal, M., & Neebe, E. (2002). Otitis media and parent and teacher ratings of children distractibility and hyperactivity. In D. J. Lim, C. D. Bluestone, M. Casselbrant, J. O. Klein, & P. L. Ogra (Eds.), *Recent Advances in Otitis Media, Proceedings of the Seventh International Symposium*.
- Roberts, J. E., Zeisel, S., Burchinal, M., & Neebe, E. (2002). Otitis media and parent and teacher ratings of children distractibility and hyperactivity. In D. J. Lim, C. D. Bluestone, M. Casselbrant, J. O. Klein, & P. L. Ogra (Eds.), *Recent Advances in Otitis Media, Proceedings of the Seventh International Symposium*, BC Decker, Hamilton, Ontario, Canada, (CD format) 646-648.
- Roberts, J. E., Zeisel, S. A., Jackson, S. C., & Burchinal, M. (2002). Otitis media and later preschool language and academic outcomes. In D. J. Lim, C. D. Bluestone, M. Casselbrant, J. O. Klein, & P. L. Ogra (Eds.), *Recent Advances in Otitis Media: Proceedings of the Seventh International Symposium*. (pp. 570-573). Hamilton, Ontario, Canada: BC Decker.
- Zeisel, S. A., Roberts, J. E., Burchinal, M., & Neebe, E. (2002). Risk factors for otitis media during the first 5 years of life. In D. J. Lim, C. D. Bluestone, M. Casselbrant, J. O. Klein, & P. L. Ogra (Eds.), *Recent Advances in Otitis Media, Proceedings of the Seventh International Symposium*.
- Burchinal, M. R., & Caskie, G. I. L. (2001). Maternal employment, child care, and cognitive outcomes. In E. L. Grigorenko & R. J. Sternberg (Eds.), *Family Environment and Intellectual Functioning: A Life-Span Perspective* (pp. 119-140). Mahwah, NJ: Erlbaum.
- NICHD Early Child Care Research Network. (2001). Parenting and family influences when children are in child care: Results from the NICHD Study of Early Child Care. In J. G. Borkowski, S. L. Ramey, & M. Bristol-Power (Eds.), *Parenting and the child's world: Influences on academic, intellectual, and social-emotional development* (pp. 99-124), Mahwah, NJ: Erlbaum.
- Roberts, J. E., & Burchinal, M. (2001). The complex interplay between biology and environment: Otitis media and mediating effects on early literacy development. In S. B. Newman & D. K. Dickinson (Eds.), *Handbook of Early Literacy Development* (pp.232-241), New York: Gilford Press.
- Cox, M. J., Paley, B., Payne, C. C., & Burchinal, M. (1999). The transition to parenthood: Marital conflict and withdrawal and parent-infant interactions. In M.

- Cox & J. Brooks-Gunn (Eds.), *Conflict and cohesion in families: Consequences for children and youth* (pp. 87-104), Mahwah, NJ: Erlbaum.
- Roberts, J. E., Zeisel, S. A., Jackson, S. C., & Burchinal, M. (1999). Otitis media and later preschool language and academic outcomes. In D. J. Lim, C. D. Bluestone, M. Casselbrant, J. O. Klein, & P. L. Ogra (Eds.) *Recent Advances in Otitis Media*, Proceedings of the Seventh International Symposium, p. 190.
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- Henderson, F. W., Zeisel, S. A., Burchinal, M. R., Evans, G. A., Riggins, R., Gunn, E., & Roberts, J. E. (1996). The natural history of middle ear effusion among African American infants and toddlers followed prospectively in group care. In D. J. Lim, C. D. Bluestone, M. Casselbrant, J. O., Klein, & P. L. Orga (Eds.), *Recent Advances in Otitis Media*. Proceedings of the sixth international conference, (pp. 44-47).
- Roberts, J. E., Burchinal, M. R., & Henderson, F. W. (1993). Otitis media and school age outcomes. In D. L. Lim, C. D. Bluestone, J. O. Klein, J. D. Nelson, & P. L. Ogra (Eds.), *Recent advances in otitis media: Proceedings of the fifth International Symposium*. (p. 561-565). B.C. Decker Publishing Co. Philadelphia, PA.
- Appelbaum, M. I., Burchinal, M. R., & Terry, R. A. (1989). Quantification methods and the search for continuity. In M. H. Bornstein & N. A. Krasnegor (Eds.), *Stability and continuity in mental development: Behavioral and biological perspectives*. (pp. 251-272) Erlbaum Associates: Hillsdale, NJ.
- Ramey, C. T., Lee, M. W., & Burchinal, M. R. (1989). Developmental plasticity and predictability: Consequences of altered ecologies. In M. H. Bornstein & N. A. Krasnegor (Eds.), *Stability and continuity in mental development: Behavioral and biological perspectives*. (pp. 217-234), Erlbaum Associates: Hillsdale, NJ.
- Roberts, J. E., Burchinal, M. R., Koch, M. A., Collier, A. M., & Henderson, F. W. (1988). Otitis media in early childhood and its relationship to later speech and language. In D. J. Lim, C. D. Bluestone, J. O. Klein, & J. D. Nelson (Eds.), *Recent advances in otitis media: Proceedings of the Fourth International Symposium*. (pp. 385-388). B.C. Decker Publishing Co., Philadelphia, PA.
- Farran, D. C., Burchinal, M. R., Hutaff, S. E., & Ramey, C. T. (1986). Allegiances or attachments: Relationships among infants and their daycare teachers. In R.

Ainslie (Ed.), *The Child in the Daycare Setting*. (pp. 133-158). New York: Praeger Publishing.

### **Publications - Other**

Burchinal, M. R., Kotch, J. B., Herman-Giddens, M., Follmer, A., & Voegler, M. E. (June, 1994). *Normative growth and development: The impact of growing population diversity on research*. Commission paper for the Research Priorities: Fourth National Title V Maternal and Child Health Research Priorities Conference, Columbia, MD.

Burchinal, M. R. (1992). Review of M. J. Rovine & A. von Eye (authors), Applied computational statistics in longitudinal research. *Journal of American Statistical Association*, 87, 588.

Burchinal, M. R. (1986). A macro for conditional ordinary least squares and weighted least squares analysis of repeated measures data. *SAS Users Group International Conference Proceedings*. (pp. 640-645). Cary, NC: SAS Institute Inc.

Early, D., Barbarin, O., Bryant, D., Burchinal, M., Chang, F., Clifford, R., Crawford, G., Weaver, W., Howes, C., Ritchie, S., Kraft-Sayre, M., Pianta, R., & Barnett, W. S. (2005). *Pre-Kindergarten in Eleven States: NCEDL's Multi-State Study of Pre-Kindergarten & Study of State-Wide Early Education Programs (SWEEP)*. NCEDL Working Paper. Chapel Hill: The University of North Carolina, FPG Child Development Institute, NCEDL.

### **Papers Presented**

Alper, R.M., Burchinal, R., Golinkoff, R., Hirsh-Pasek, K., & Pace, A. (2016, July ). Children's Preschool Skills in Universal Preschool: How Do They Predict Elementary School Achievement? In Sally Atkins-Burnett (chair) Preparing for Success in School: What Matters the Most. Symposium Presented at ACF Research Conference: Washington DC

Burchinal, M. (2016, July). Discussant. In James Elicke (chair) Alternatives to Random Assignment for Large Scale Child Outcome Studies. Invited Symposium Presented at ACF Research Conference: Washington DC

Burchinal, M. (2016, July). Challenges in Using Observational Quality Rating Tools. In Nina Phillipsen Hetzner & Amy Madigan (Chairs) The Challenges of Using Observational Quality Rating Tools in Accountability Systems and Strategies to Address Them. Invited Symposium Presented at ACF Research Conference: Washington DC

Burchinal, M. & Derrick-Mill, T (2016, November). Evaluating the Head Start Designation Renewal System. In *2016 Fall Conference: The Role of Research in Making Government More Effective*. Appam.

Aber, L., Burchinal, M., & Jones, S. (2015, March). Hitting the Learning Curve Ball: Methodological Challenges and Opportunities. Invited Conversation Hour. *Society for Research on Educational Effectiveness*

Burchinal, M. (2015, June). Secondary data analysis on QRIS models and child outcomes. *INQUIRE in-person meeting*. Annapolis, MD

- Burchinal, M., (2015, April) Longitudinal Methods. In M Burchinal (Chair) Best Practices in Statistical Methodology for Developmental Science Research. Invited Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA
- Burchinal, M, Raver, M., Vernon-Feagon, L., Cox, M., & Blair, C (2015, April) Poverty and Early Child Development in Rural Low-Income Regions: Results from the Family Life Project. In E. Votruba-Drzal Place, Poverty, and Child Development. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA
- Burchinal, M., (2104, June). Developing Ratings in Quality Rating and Improvement Systems: Conceptualization, Psychometrics, and Practicalities. Invited symposium. Head Start Research Conference.
- Burchinal, M., Xue, Y., Sideris, J., Tien, S (2013, April). Child Care Quality Thresholds: Evidence from Several Studies in L Tarullo (Chair) Testing for Thresholds in Associations Between Child Care Quality and Child Outcomes: Innovative Methodological Approaches. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Espinosa, L., & Burchinal, M (2103, April) Child Care Experiences among Dual Language Learners in the US: Analyses of the Early Childhood Longitudinal Survey-Birth Cohort. Society for Research in Child Development. In A. Fuligni (Chair) The Complex Picture of Child Care Use and Dual-language Learners: Diversity of Families and Children's Experiences over Time. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Tarullo, L., Xue, Y., & Burchinal, M. (2013, April). Are two years better than one? Examining dosage of Head Start attendees using propensity score matching methodology. In A. Madigan (Chair), Does program dosage predict outcomes in Head Start and Early Head Start. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Hatfield, B., Hamre, B., LoCasale-Crouch, J., Pianta, R., Downer, J., Burchinal, M., & Howes, C. (2012, March). Teacher Characteristics Influence Responsiveness to a Course and a Consultancy Focused on Effective Teacher-Child Interactions. Society for Research on Educational Effectiveness.
- Auger, A., Farkas, G., Duncan, G. J., Burchinal, M., & Vandell, D. L. (2012, October). Child care quality and academic achievement: Results from PCER. In annual meeting of the Association for Public Policy Analysis and Management, Baltimore, MD.
- Burchinal, M. (2012, Feb.) Past lessons and future directions of developmental methodology. Invited Keynote Address at the SRCD Methodology Conference. Feb, 2012: Tampa, Fl

- Burchinal, M. (2011, Nov) Workshop on National Education Indicators. National Research Council and Board on Testing and Assessments: Washington DC
- Burchinal, M. (2011, Nov) Discussant for New Evidence on Child Care and Child Outcomes Presentations. Chair :J. Wolfogel. Symposium presented at the Annual Meeting of the Association for Public Policy Analysis and Management. Nov, 2011: Washington DC
- Albarran, A. S., & Burchinal, M. (March, 2011). Quality child care effect on kindergarten abilities and special education placement. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Burchinal, M., Xue, Y., Tien, H., Auger, A., & Mashburn, A. J. (March, 2011). *Secondary data analysis looking for thresholds in child care quality*. In I. M. Martinez-Beck (chair). Child care quality dosage, thresholds, and features and child outcomes: New analyses of data from national studies. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Dang, T. T., Farkas, G., Duncan, G. J., Burchinal, M., Vandell, D. L., Li, W., Ruzek, E. A., & Howes, C. (March, 2011). *Child care quality and school readiness: Quality main effects and variation by demographic and child characteristics*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Auger, A., & Burchinal, M. (April, 2011). *The long term effects of parenting characteristics and child care quality on academic achievement*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Bub, K. L., Ferretti, L. K., & Burchinal, M. (April, 2011). *Sustaining the social and cognitive benefits of Head Start: Does a continuous learning model work?* In K. L. Bub (chair). Classroom supports for children at risk: Short- and long-term effects of early intervention programs. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Burchinal, M. (April, 2011). Incorporating mediators and moderators in testing theories of change. In A. A. Morgan-Lopez (chair). Methodological issues in developmental science. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Burchinal, M., Belsky, J., & Vandell, D. L. (April, 2011). *Does parenting in middle childhood moderate early child care effects: Results from NICHD SECCYD*. In E. Dearing (chair). Contextualizing the link between non-maternal child care and behavior problems: Looking home and abroad. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Li, W., & Burchinal, M. (April, 2011). *How does infant care quality moderate the impacts of preschool quality on school readiness?* In S. Cote (chair). Child care and child development in western countries: Results from 3 European and North American population samples. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Li, W., Goldberg, W. A., & Burchinal, M. (April, 2011). *The ecological context of maternal work intensity over the child's first five years of development*. In W. A. Goldberg (chair). Contexts of early child development: Connections between maternal employment and childcare. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.

- Powell, D. R., Diamond, K. E., & Burchinal, M. (April, 2011). *Effects of a coaching-based professional development intervention on Head Start teachers' vocabulary instruction*. In R. C. Pianta & C. C. Raver (chairs). Effective approaches for improving quality and school readiness. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Thibaut, J., French, R. M., Vezneva, M., Richland, L. E., Morrison, R. G., Dumas, L. A. A., & Burchinal, M. (April, 2011). *The role of executive function in children's analogical reasoning*. In L. E. Richland (chair). Children's development of analogical reasoning. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Vandell, D., Belsky, J., Burchinal, M., & Steinberg, L. (March, 2009). *Do effects of early child care extend to age 15 years? Results from the NICHD Study of Early Child Care*. In J. Belsky (chair). Effects of early childcare and parenting in adolescence: New results of the NICHD Study of Early Child Care and Youth Development. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Steinberg, L., & Burchinal, M. (March, 2009). *What matters most? Differential impact of early child care versus early parenting on adolescent functioning*. In J. Belsky (chair). Effects of early childcare and parenting in adolescence: New results of the NICHD Study of Early Child Care and Youth Development. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Kainz, K. L., Willoughby, M. T., Vernon-Feagans, L., & Burchinal, M. (March, 2009). *How do families' economic conditions affect children in rural families?* In A. Gassman-Pines (chair). The effects of family income on child development: A new look at an established relationship. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Grimm, K. J., Vandergrift, N., Burchinal, M., Mashburn, A. J., & Pianta, R. C. (March, 2009). *Long-term effects of preschool quality on changes in children's achievement*. In N. Palacios (chair). Classroom quality and the early development of at-risk children. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Burchinal, M., McCartney, K. A., & Steinberg, L. (March, 2009). *Examining the black-white achievement gap among low-income children in the NICHD Study of Early Child Care*. In E. Votruba-Drzal (chair). Early achievement disparities by race/ethnicity and social class: strengthening our understanding of process. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Powell, D. R., Diamond, K. E., & Burchinal, M. (March, 2009). *Effects of a professional development intervention on teaching practices and children's language and literacy outcomes*. Poster presentation at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Vandergrift, N., Burchinal, M., & Pianta, R. C. (March, 2009). *Threshold analysis of association between child care quality and child outcomes: Low-income children in pre-kindergarten*. In E. Votruba-Drzal (chair). Everyday child care experiences of economically disadvantaged preschoolers: descriptions and implications. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.

- Burchinal, M. (March, 2009). *Early childhood assessment: Why, what, and how*. In W. R. Beardslee & R. Chalk (chairs). Recent studies on mental health, depression, and assessment of young children from the National Academy of Sciences. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.
- Zaslow, M., Burchinal, M., & Tout, K. (July, 2008). *Assessing Measures of quality: What do we know so far?* Symposium presented at the Child Care Bureau State and Territory Child Care Administrators Meeting, Washington, DC.
- Burchinal, M. (June, 2008). *Competencies and credentials for early childhood educators: What do we know and what do we need to know?* Keynote speaker at Head Start's Ninth National Research Conference, Washington, DC.
- Burchinal, M. (March, 2008). *The examination of preschool effects from multiple lenses and perspectives*. Symposium presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- Vernon-Feagans, L., Cox, M. J., & Burchinal, M. R. (March, 2007). *The family life project: Risk and parenting at 6 months as predictors of child outcomes at 15 months in rural poor families*. In L. Vernon-Feagans & M. J. Cox (chairs). The Family Life Project: An epidemiological and developmental study of rural poor communities, families and young children. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Iruka, I. U., & Burchinal, M. R. (March, 2007). *Advantage of multiple nurturing relationships for preschoolers*. Poster presentation at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Early, D., Maxwell, K., & Burchinal, M. R. (March, 2007). *Teachers' education, classroom quality, and young children's academic skills: Results from seven studies of preschool programs*. In D. Early (chair). Promoting positive child development: Teacher education and in-service training in early care and education. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Owen, M. T., & Burchinal, M. R. (March, 2007). *Early child care and parent-child interactions of both mothers and fathers through third grade*. Poster presentation at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Burchinal, M. (March, 2007). *Head start and early childhood education studies: Discussing the results*. In J. Brooks (chair). Giving children a true head start: What research tells us about the effectiveness of early childhood education programs. Roundtable discussion presented at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Burchinal, M. R., & Skinner, D. (March, 2007). *Infant child care in rural low-income communities: An integrated quantitative and qualitative analysis of family life project data*. Poster presentation at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Burchinal, M. R., Roberts, J. E., & Zeisel, S. A. (March, 2007). *Social risk and protective factors for African American children's academic achievement during the transition to middle school*. In R. Mistry (chair). Poverty, child development, and early school transitions. Invited symposium presented at the Biennial Meeting of the Society of Research in Child Development, Boston, MA.

- Burchinal, M. (December, 2006). *Plenary: Research perspectives on the measurement of quality*. Invited paper for the Child Care Bureau, Measuring Quality in Early Childhood and School-Age Settings: At the Junction of Research, Policy and Practice, Washington, DC.
- Burchinal, M. (July, 2006). *Introduction to longitudinal data analysis*. In S. Friedman and S. Havighurst (chairs) Development in context: Making best use of existing longitudinal data. Invited Pre-Conference for the 19th Biennial Meeting of the International Society for the Study of Behavioural Development, Melbourne, Australia.
- Burchinal, M. (July, 2006). *Child care effect sizes for the NICHD Study of Early Child Care and Youth Development*. In S. Friedman & J. Ungerer (chairs). The magnitude of the effects of child care and preschool: Comparing findings from Australia, the UK, and the USA. Symposium presented at 19th Biennial Meeting of the International Society for the Study of Behavioural Development, Melbourne, Australia.
- Friedman, S., & Burchinal, M. (July, 2006). *NICHD Study of Child Care and Youth Development*. In S. Friedman & S. Havighurst (chairs) Development in context: Making best use of existing longitudinal data. Invited Pre-Conference for the 19th Biennial Meeting of the International Society for the Study of Behavioural Development, Melbourne, Australia.
- Burchinal, M. (April, 2005). *Data management and maintaining data integrity*. In M. Burchinal (chair). Back to School: The good, the bad, and the ugly – Rules and practices in data management and analysis. Invited symposium presented at the Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.
- Vandell, D., Burchinal, M., Belsky J., Own, M. T., Friedman, S., Clarke-Stewart, K. A., McCartney, K., & Weinraub, M. (April, 2005). *Early child care and children's development in the primary grades: Follow-up results from the NICHD Study of Early Child Care*. In M. Burchinal (chair). Early child care and children's development in the primary grades: Results from four large longitudinal projects. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.
- Burchinal, M., Howes, C., Pianta, R., Bryant, D., Clifford, R., Early, D., & Barbarin, O. (April, 2005). *Pre-kindergarten and children's development in kindergarten: NCEDL Evaluation of Pre-kindergarten Program*. In M. Burchinal (chair). Early child care and children's development in the primary grades: Results from four large longitudinal projects. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.
- Burchinal, M. (April, 2003). *Diversity, child care quality, and developmental outcomes*. In K. McCartney (chair). Child care and maternal employment effects in the NICHD Study of Early Child Care and Youth Development. Poster symposium presented at the Biennial Meeting of the Society for Research in Child Development, Orlando, FL.
- Burchinal, M., & Duncan, G. (April, 2003). *Does child care quality matter more for children with low cognitive skills*. In R. Coley & E. Votruba-Drzal (chairs) Nonmaternal care use and quality: For whom is child care most important? Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Orlando, FL.
- Vandell, D., Burchinal, M., Friedman, S., & Brownell, C. (April, 2001). *Overview of early child care effects at 4.5 years*. In J. Belsky (chair). Early childcare and children's

- development prior to school entry. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Minneapolis, MN.
- Burchinal, M., Peisner-Feinberg, E., Howes, C., & Clifford, R. (April, 2001). *Examining the impact of selection bias on relationships between child care quality and child outcomes: Cost, Quality, and Outcomes Study*. In A. Huston (chair). Selection problems and solutions in longitudinal developmental studies. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Minneapolis, MN.
- Burchinal, M., & Caskie, G. (June, 2000). *Relations of AFDC use with family characteristics and child outcomes*. Technical paper presented at the Head Start's Fifth National Research Conference, Washington, DC, 668.
- Roberts, J. E., Jackson, S., Burchinal, M., & Zeisel, S. (June, 2000). *Child, family, and childcare factors: Predictors of African American children's school transition*. Technical paper presented at the Head Start's Fifth National Research Conference, Washington, DC, 257.
- NICHD Early Childhood Research Network. (August, 1999). *Effect sizes from the NICHD Study of Early Child Care*. In A. Huston (chair). Overview of the NICHD Study of Early Child Care. Symposium presented at the Annual Meeting of the American Psychological Association, Boston, MA.
- Burchinal, M. (April, 1999). *Family selection and child care experiences*. In F. Glanz (chair) Selection issues in child care: Estimating the effects of child care on child outcomes. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Albuquerque, NM.
- NICHD Early Child Care Network. (April, 1999). *Effect sizes from the NICHD Study of Early Child Care*. In K. McCartney & A. Clarke-Stewart (chairs). Does child care matter? Symposium presented at the Biennial Meeting of the Society for Research in Child Development, Albuquerque, NM.
- Campbell, F.A., Burchinal, M., Caskie, G., & Bryant, D. (April, 1999). *AFDC use over time and childcare, family characteristics, and child outcomes*. In R. Clifford (chair). Perspectives on quality in early childhood settings: Findings from the National Center for Early Development and Learning. Symposium presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada.
- Burchinal, M., & Caskie, G. I. L. (July, 1998). *Relations of AFDC use with family characteristics and child outcomes*. Poster presented at the Head Start's Fourth National Research Conference, Washington, DC.
- NICHD Early Child Care Network. (April, 1997). *Mother-child interactions and cognitive outcomes associated with early child care: Results from the NICHD study*. Poster symposium presented at the biennial meeting of the Society for Research in Child Development, Washington, DC.
- Burchinal, M. (April, 1997). *Growth curve analysis: Early intervention effects and mediating factors in cognitive performance from birth to 8 years of age*. In A. Sayers & M Shanahan (chairs). Dynamic models of children in poverty: Bridging methods and concepts. Paper symposium presented at the biennial meeting of the Society for Research in Child Development, Washington, DC.
- Burchinal, M., & Skinner, D. (June, 1996). *Integrating qualitative and quantitative analyses of classroom quality*. Poster to be presented at Head Start's Third National Research Conference, Washington, DC.

- Burchinal, M., & Howes, C. (June, 1996). *Quality of infant and toddler center child care for low and middle income children*. Poster to be presented at Head Start's Third National Research Conference, Washington, DC.
- Burchinal, M., Phillipsen, L., Cryer, D., & Howes, C. (April, 1996). *Quality of infant and toddler center care: Inter-relations among process and structural measures*. Poster presented at the biennial meeting of the International Conference for Infant Studies, Providence, RI.
- Burchinal, M., Roberts, J., Nabors, L., & Bryant, M. (April, 1996). *Quality of infant center care and infant cognitive and language development*. Poster presented at the biennial meeting of the International Conference for Infant Studies, Providence, RI.
- Burchinal, M. (March, 1996). *Purposefully incomplete longitudinal designs: Overview of methods for data analysis*. Poster presented at the annual meeting of the Society for Research in Adolescence, Boston, MA.
- Burchinal, M., & Sideeq, A. (March, 1996). *Math achievement from 8 to 15 years among low-income African-American children: Effects of early intervention and family factors*. Poster presented at the annual meeting of the Society for Research in Adolescence, Boston, MA.
- Burchinal, M., & Kinney, T. (March, 1995). *A profile of school-age pediatric patients*. Poster presented at the 20th Meeting of the National Sickle Cell Program, Boston, MA.
- Burchinal, M. (March, 1995). *Purposefully incomplete longitudinal designs: An overview of methods for data analysis*. In M. Burchinal (chair). An overview of methods for analyzing longitudinal data. Paper symposium presented at Biennial Meeting of the Society for Research in Child Development, Indianapolis, IN.
- Burchinal, M. (March, 1995). *Child care quality: Intercorrelations among process and structural measures*. In M. Burchinal (chair). The child care costs, quality, and outcomes project. Paper symposium presented at Biennial Meeting of the Society for Research in Child Development, Indianapolis, IN.
- Burchinal, M., Helms, R., Phillips, G., & Kinney, T. (March, 1994). *The Duke/UNC Comprehensive Sickle Cell Center Clinical Core Data Base: A prospective study of medical and psycho-social characteristics of patients*. Poster presented at the 19-th Meeting of the National Sickle Cell Program, New York, NY.
- Burchinal, M. (March, 1993). Predictors of patterns of cognitive development among poverty children: Early intervention and characteristics of the child and family. In C.T. Ramey (chair). *Efficacy of early intervention for poverty children: Results from three longitudinal studies*. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, New Orleans, LA.
- Burchinal, M., Voegler, M. E., & Stewart, P. (March, 1993). Using tracking analysis to identify extreme groups. In N.A. Fox & J.B. Asendorf (chairs). *The developmental analysis of temperament: Discrete types or continuous traits*. Symposium presented at the Biennial Meeting of the Society for Research in Child Development, New Orleans, LA.
- Pungello, E. P., Kupersmidt, J. B., Burchinal, M. R., & Patterson, C. (April, 1993). *Individual growth curve analyses of poverty, acute stress, ethnicity, and gender as predictors of children's academic achievement*. Paper presented at the Annual meeting of the American Educational Research Association, Washington, DC.

- Burchinal, M. (May, 1992). Relationship between age of peers and early child development: A longitudinal study. In D. Bailey (chair). *Behavioral, developmental, and health effects of same-age and mixed-age child care groupings*. Symposium presented at the Eighth International Conference on Infant Studies, Miami Beach, FL.
- Burchinal, M., Bailey, D., & Snyder, P. (September, 1992). *Using growth curve analysis to evaluate the effects of longitudinal interventions: Rationale and an example*. Paper presented at the Sixth International Conference on Children at Risk, Santa Fe, NM.
- Burchinal, M., Bryant, D., & Campbell, F. (May, 1992). *Infant and center daycare and teacher ratings of behavior at 8-9 years*. Poster presented at the Eighth International Conference on Infant Studies, Miami Beach, FL.
- Kupersmidt, J., Burchinal, M., Leff, S., & Patterson, C. (March, 1992). *A longitudinal study of perceived support and conflict with parents from middle childhood through adolescence*. Paper presented at the Biennial meeting of the Society for Research on Adolescence, Washington, DC.
- Burchinal, M., Stewart, P. W., Pekow, P. S., & Helms, R. W. (August, 1991). *Tracking in irregularly-timed, longitudinal, pulmonary function data: Empirical results*. Paper presented at the Annual Meeting of the American Statistical Association, Atlanta, GA.
- Burchinal, M. (April, 1991). *Infant-mother attachment, infant daycare, and school-aged classroom behaviors*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Ramey, S. L., Burchinal, M., & Jaccard, J. (April, 1991). The Washington Family Behavior Study. In M. Burchinal (chair). *Early experience and children's competencies: New findings from four longitudinal studies*. Symposium conducted at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Burchinal, M., Campbell, F. A., Wasik, B. W., & Ramey, C. T. (June, 1991). *Differential effects of poverty on intellectual development: a developmental cluster analysis*. Paper presented at the National Working Conference on New Directions in Child and Family Research: Shaping Head Start in the Nineties, Arlington, VA.
- Ramey, C. T., Campbell, F. A., Burchinal, M., Sparling, J. J., & Wasik, B. W. (June, 1991). *Early intervention and long term predictors of school success*. Paper to be presented at the National Working Conference on New Directions in Child and Family Research: Shaping Head Start in the Nineties, Arlington, VA.
- Whitt, J. K., Hooper, S. R., Tennison, M. B., Robertson, W. T., Golds, S. H., Burchinal, M. R., Combest J., Whaley, R. A., McMillan, C., & Hall, C. D. (June, 1991). *Longitudinal patterns of neuropsychologic functioning in HIV-infested children with hemophilia*. Paper presented at the Neuroscience of HIV Infection Conference, Padova, Italy.
- Burchinal, M. (April, 1989). *Comparison of models for estimating individual growth curves*. Paper presented at the Biennial meeting of the Society for Research in Child Development, Kansas City, MO.
- Bryant, D., & Burchinal, M. (April, 1989). *Predictors of early school failure among high-risk children*. Paper presented at the Biennial meeting of the Society for Research in Child Development, Kansas City, MO.

- Burchinal, M. (1988) *Multidimensional scaling as a sociometric technique*. Paper presented at the annual meeting of the American Psychological Association, Atlanta, GA.
- Roberts, J. E., Burchinal, M. R., Perry-Davis, B. & Footo, M. M. (1989). *Otitis media birth to three and three to five: Impact on academic outcomes*. Paper presented at Annual American Speech and Hearing Association Convention, St. Louis, MO.
- Bryant, D., & Burchinal, M. (1988). *Age as a risk factor for school failure*. Paper presented at the Annual Meeting of the American Psychological Association, Atlanta, GA.
- Roberts, J. E., Footo, M. M., & Burchinal, M. R. (1988). *Phonological development from 2 1/2 to 8: Group and individual differences*. Paper presented at the Annual American Speech and Hearing Association Convention, Boston, MA.
- Roberts, J. E., Webster, T. A., & Burchinal, M. R. (1988). *Otitis media and later speech and language*. Technical session presented at the Annual American Speech and Hearing Association Convention, Boston, MA.
- Horacek, H., Hoffman, K., Lee, M., Burchinal, M., & Ramey, C. (1987). *School competence: Impact of mother-child relationship, early intervention, & gender*. Paper presented at the annual meeting of the Robert Wood Johnson Clinical Scholars, Scottsdale, AZ.
- Horacek, H., Hoffman, K., Lee, M., Burchinal, M., & Ramey, C. (1987). *Predicting classroom behavior problems from mother- child interaction & early intervention with high risk infants: Paradoxical results*. Paper presented at the biennial meeting of the National Center for Clinical Infant Programs, Washington, DC.
- Lee, M., & Burchinal, M. (1987). *Children of poverty: A multi-level analysis of the determinants of intellectual development*. Paper presented at the Society for Research in Child Development, Baltimore, MD.
- Roberts, J. E., Burchinal, M. R., Koch, M. A., Collier, A. M., & Henderson, F. W. (1987). *Otitis media in early childhood and its relationship to later speech and language*. Paper presented at the fourth International Symposium on Recent Advances in Otitis Media. Bal Harbour, FL.
- Bryant, D., & Burchinal, M. (1986). *Predicting patterns of intellectual development in poverty children*. Paper presented at the biennial meeting of the International Conference for Infant Studies, Los Angeles, CA.
- Burchinal, M., & Bryant, D. (1986). *Does daycare affect infant-mother attachment level*. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.
- Burchinal, M., Lee, M., & Ramey, C. (1986). *Daycare effects on preschool intellectual development in poverty children*. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.
- Burchinal, M. (1986). *A macro for conditional ordinary least squares and weighted least squares analysis of repeated measures data*. Paper presented at the SAS User's Group International Conference, Atlanta, GA.
- Roberts, J., Henderson, F., Burchinal, M., Schaeffer, E., & Webster, T. (1986). *Otitis Media and school-age verbal, academic and social performance*. Paper presented at the American Speech and Hearing Conference, Detroit, MI.

- Burchinal, M., Bryant, D., & Sparling, J. (1984). *Predicting poverty children's IQ from mother's social support network*. Paper presented at the International Conference for Infant Studies, New York, NY.
- Bryant, D., Ramey, C., & Burchinal, M. (1982). *Intervention effects on mother-child interactions*. Paper presented at the International Conference for Infant Studies, Austin, TX.
- Burchinal, M., & Farran, D. (1980). *How important is early mother-child interaction for development during infancy?* Paper presented at the International Conference for Infant Studies, New Haven, CT.
- East, S., Farran, D., Burchinal, M., & Ramey, C. (1979). *The social responsiveness of infants in daycare*. Paper presented at the annual meeting of the American Psychological Association, New York, NY.
- Farran, D., Burchinal, M., East, S., & Ramey, C. (1978). *Attachment between daycare infants and their teachers*. Paper present at the Southeastern Conference on Human Development. Atlanta, GA.