

# CURRICULUM VITAE

## Heather J. Bachman

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### Post-Secondary Education

2002-2005     Postdoctoral Training in Multidisciplinary Policy Research  
                  Institute for Policy Research, Northwestern University

2002            Ph.D., Developmental Psychology  
                  Loyola University Chicago

1999            M.A., Developmental Psychology  
                  Loyola University Chicago

1996            B.A., Psychology  
                  Wheaton College, IL  
                  Summa Cum Laude

### Professional Employment and Experience

2023            *Professor*, Department of Health and Human Development (formerly  
                  Psychology in Education)  
                  School of Education, University of Pittsburgh

2023            *Research Scientist*, Learning Research and Development Center  
                  University of Pittsburgh

2023            *Associate Dean of Research*  
                  School of Education, University of Pittsburgh

2012 – 2021     *Secondary Faculty Appointment* in the Learning Sciences and Policy program,  
                  School of Education, University of Pittsburgh

2020            *Center Associate*, Learning Research and Development Center  
                  University of Pittsburgh

2016 – 2019     *Associate Department Chair*, Dept. of Psychology in Education  
                  School of Education, University of Pittsburgh

2014 – 2019     *Research Fellow*, Center for Urban Education  
                  School of Education, University of Pittsburgh

2011 – 2023     *Associate Professor*, Department of Psychology in Education  
                  School of Education, University of Pittsburgh

2009 – present	<i>Secondary Faculty Appointment</i> in the Department of Psychology School of Arts and Sciences, University of Pittsburgh
2008 – present	<i>Affiliate Faculty Member</i> , Learning Policy Center School of Education, University of Pittsburgh
2005 – 2011	<i>Assistant Professor</i> , Department of Psychology in Education School of Education, University of Pittsburgh
2004 – 2005	<i>Adjunct Faculty</i> , School of Education and Social Policy Northwestern University, Evanston, IL.
2004 – 2005	<i>Research Scientist</i> , Institute for Policy Research Northwestern University, Evanston, IL.
2003	<i>Adjunct Faculty</i> , Department of Psychology Northwestern University, Evanston, IL.
2002 – 2004	<i>Postdoctoral Research Fellow</i> , Institute for Policy Research Northwestern University, Evanston, IL.
2001	<i>Predoctoral Research Fellow</i> , Institute for Policy Research Northwestern University, Evanston, IL.
1999 – 2001	<i>Adjunct Faculty</i> , Chicago School of Professional Psychology, Chicago, IL.
1998 – 1999	<i>Research Consultant</i> , Jane Addams Center/Hull House Association, Chicago, IL.

## **Book**

Morrison, F. J., Bachman, H. J., & Connor, C. M. (2005). *Improving literacy in America: Guidelines from research*. Yale University Press: New Haven, CT.

## **Book Chapters**

Morrison, F. J., Connor, C. M., & Bachman, H. J. (2006). The transition to school. In D. K. Dickinson & S. B. Neuman (Eds.) *Handbook of Early Literacy Research*, Vol. 2. (pp. 375-394). New York, NY: Guilford Press.

Christian, K., Bachman, H. J., & Morrison, F. J. (2001). Schooling and cognitive development. In R. J. Sternberg & R. L. Grigorenko (Eds.) *Environmental effects on cognitive abilities* (pp. 287-335). Mahwah, NJ: Lawrence Erlbaum Associates.

## **Peer-Reviewed Journal Articles**

*\*denotes student co-author*

\*Fox, D., Ribner, A., Votruba-Drzal, E., Bachman, H. J., & Libertus, M. (2025). Parents' spatial talk

predicts toddlers' spatial language gains. *Learning and Instruction*, 97, 102107.  
<https://doi.org/10.1016/j.learninstruc.2025.102107>

\*Duong, S., Davis, T., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. L. (2024). Exploring dynamic structures of dyadic conversations using categorical cross recurrence quantification analysis: A tutorial. *The Quantitative Methods for Psychology*, 20(2), 121-136.  
[10.20982/tqmp.20.2.p121](https://doi.org/10.20982/tqmp.20.2.p121)

\*Duong, S., Davis, T., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. L. (2024). Dynamic structures of parent-child number talk: An application of categorical cross-recurrence quantification analysis and companion to Duong et al. *The Quantitative Methods for Psychology*, 20(2), 137-155. [10.20982/tqmp.20.2.p137](https://doi.org/10.20982/tqmp.20.2.p137)

Libertus, M. L., Miller, P., Zippert, E., Bachman, H. J., & Votruba-Drzal, E. (2024). Predicting individual differences in preschoolers' numeracy and geometry: The role of understanding abstract relations between objects and quantities. *Journal of Experimental Child Psychology*, 247, 106035. <https://doi.org/10.1016/j.jecp.2024.106035>

\*Silver, A. M., Miller, P., Votruba-Drzal, E., Libertus, M. E., & Bachman, H. J. (2024). Parent predictors of the home math environment and associations with toddlers' math skills. *Early Childhood Research Quarterly*, 69, 88-100. <https://doi.org/10.1016/j.ecresq.2024.07.007>

\*Coulanges, L., Bachman, H. J., Libertus, M. L., & Votruba-Drzal, E. (2024). Examining profiles of children's screen time and associations with academic skills. *Journal of Children and Media*, 18, 235-253. DOI: [10.1080/17482798.2024.2327021](https://doi.org/10.1080/17482798.2024.2327021)

\*Duong, S., Elliott, L., Sidoti, O., Bachman, H. J., Libertus, M. L., & Votruba-Drzal, E. (2024). Money talks! The role of parents' discussion of money for preschoolers' math knowledge. *Journal of Numerical Cognition*, 10(2), e11351. <https://doi.org/10.5964/jnc.11351>.

\*Fox, D. S., Elliott, L., Bachman, H. J., Votruba-Drzal, E. & Libertus, M. L. (2024). Diversity of spatial activities and parents' spatial talk complexity predict preschoolers' growth in spatial cognition. *Child Development*, 95, 734-749. <https://doi.org/10.1111/cdev.14024>

Elliott, L., & Bachman, H. J. (2023). Mothers' strategies to support children's early learning in low-income homes: A qualitative investigation. *Journal of Child and Family Studies*.  
<https://doi.org/10.1007/s10826-023-02652-7>

\*Duong, S., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. L. (2023). Exploring the role of “in the moment” and global parent and child factors in parental questioning during shared book viewing. *Cognitive Development*, 66, 101327. <https://doi.org/10.1016/j.cogdev.2023.101327>

Degol, J., & Bachman, H. J. (2023). Early self-control and sustained attention problems: Associations with youth achievement, motivation, and engagement. *Cognitive Development*, 65, 101290. <https://doi.org/10.1016/j.cogdev.2022.101290>

Elliott, L., Votruba-Drzal, E., Miller, P., Libertus, M., & Bachman, H. J. (2023). Unpacking the

home numeracy environment: Examining dimensions of number activities in early childhood. *Early Childhood Research Quarterly*, 62, 129-138.  
<https://doi.org/10.1016/j.ecresq.2022.08.002>

Miller, P., Elliott, L., \*Podvysotska, T., \*Ptak, C., \*Duong, S., \*Coulanges, L., \*Fox, D. S., Libertus, M. L., Bachman, H. J., & Votruba-Drzal, E. (2023). Toddler home math environment: Triangulating multi-method assessments. *Frontiers in Psychology*, special issue: *Informal STEM Learning at Home and in Community Spaces*, 14, 1-15.  
<https://doi.org/10.3389/fpsyg.2023.1105569>

Bachman, H. J., Miller, P., Elliott, L., \*Duong, S., Libertus, M., & Votruba-Drzal, E. (2022). Associations among socioeconomic status and preschool-aged children's approximate number system acuity, number skills, and spatial skills: The role of executive function. *Journal of Experimental Child Psychology*, 221, 105453.  
<https://www.sciencedirect.com/science/article/pii/S0022096522000820?via%3Dihub>

\*Carver, C. E., \*Duong, S., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. E. (2022). Examining relations between parental feedback types and preschool-aged children's academic skills. *International Journal of Psychological Studies*, 14(4), 1-19.  
<https://doi.org/10.5539/ijps.v14n4p1>

Elliott, L., Bachman, H. J., \*Pereira, J. C., \*Coulanges, L., \*Duong, S., Montue, T., Miller, P., Libertus, M., & Votruba-Drzal, E. (2022). Self-regulation in toddlers and the emergence of academic disparities. *Infant Behavior and Development*, 69, 101779. In special issue on *The Interplay between Cognition and Emotion*. <https://doi.org/10.1016/j.infbeh.2022.101779>

Miller, P., \*Betancur, L., \*Coulanges, L., Kammerzell, J., Libertus, M., Bachman, H. J., & Votruba-Drzal, E. (2022). Time spent playing predicts early reading and math skills through associations with self-regulation. *Journal of Applied Developmental Psychology*, 83, 101470.  
<https://doi.org/10.1016/j.appdev.2022.101470>

\*Silver, A. M., Braham, E. J., Elliott, L., Bachman, H. J., Votruba-Drzal, E., Tamis-LeMonda, C., Cabrera, N., & Libertus, M. E. (2021). Measuring emerging number knowledge in toddlers. *Frontiers in Psychology*, 12, 3057. <https://doi.org/10.3389/fpsyg.2021.703598>

\*Duong, S., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. (2021). What's in a question? Parents' question use in dyadic interactions and the relation to preschool-aged children's math abilities. *Journal of Experimental Child Psychology*, 211, 105213.  
<https://doi.org/10.1016/j.jecp.2021.105213>

Bachman, H. J., Elliott, L., \*Duong, S., \*Betancur, L., \*Navarro, M., Votruba-Drzal, E., & Libertus, M. (2020). Triangulating multi-method assessments of parental support for early math development. *Frontiers in Education*, 5:589514. <https://doi.org/10.3389/feduc.2020.589514>

\*Elliott, L., Bachman, H. J., & Henry, D. (2020). Why and how do parents promote math learning with their young children? *Parenting: Science and Practice*, 20(2), 108-140.  
<https://doi.org/10.1080/15295192.2019.1694830>

- Bachman, H. J., \*Elliott, L., \*Scott, P., & \*Navarro, M. G. (2020). Latino children's academic and behavioral trajectories in early elementary school: Examining home language differences within preschool types. *Early Childhood Research Quarterly*, 52, 138-153. In *ECRQ special issue on Early Care and Education among Latino Families: Access, Utilization, and Impacts*. <https://doi.org/10.1016/j.ecresq.2018.04.005>
- \*Elliott, L., & Bachman, H. J. (2018). SES disparities in early math abilities: The contributions of parents' math cognitions, practices to support math, and math talk. *Developmental Review*, 49, 1-15. <https://doi.org/10.1016/j.dr.2018.08.001>
- \*Elliott, L., & Bachman, H. J. (2018). Parents' educational beliefs and children's early academics: Examining the role of SES. *Children and Youth Services Review*, 91, 11-21.
- \*Elliott, L. & Bachman, H. J. (2018). How do parents foster young children's math skills? *Child Development Perspectives*, 12(1), 16-21.
- Bachman, H. J., \*Degol, J. L., \*Elliott, L., \*Scharphorn, L., \*El Nokali, N. E., & \*Palmer, K. M. (2017). Preschool math exposure in private center-based care and low-SES children's math development. *Early Education and Development*, 29, 417-434.
- Bachman, H. J., Votruba-Drzal, E., \*El Nokali, N. & \*Heatly, M. C. (2015). Opportunities for learning math in elementary school: Implications for SES disparities in procedural and conceptual math skills. *American Educational Research Journal*, 52, 894-923.
- \*Heatly, M. C., Bachman, H. J., & Votruba-Drzal, E. (2015). Developmental patterns in the associations between instructional practice and children's math skill trajectories in elementary school. *Journal of Applied Developmental Psychology*, 41, 46-59.
- \*Degol, J. L., & Bachman, H. J. (2015). Preschool teachers' classroom socialization practices and low-income children's self-regulation skills. *Early Childhood Research Quarterly*, 31, 89-100.
- \*Palmer, K. P., & Bachman, H. J. (2015). The role of education in the parenting practices of Black parents of preschoolers. *NHSA Dialog: The Research-to-Practice Journal for the Early Childhood Field*, 17(4), 66-82.
- Bachman, H. J., Coley, R. L., & \*Carrano, J. (2012). Low-income mothers' patterns of partnership instability and adolescents' behavioral and emotional well-being. *Journal of Family Psychology*, 26, 263-273.
- Bachman, H. J., Coley, R. L., & \*Carrano, J. (2011). Maternal relationship instability influences on children's emotional and behavioral functioning in low-income families. *Journal of Abnormal Child Psychology*, 39, 1149-1161.
- \*El Nokali, N., Bachman, H. J., & Votruba-Drzal, E. (2010). Parent involvement and children's academic achievement and social development in elementary school. *Child Development*, 81, 988-1005.

- Bachman, H. J., Coley, R. L., & Chase-Lansdale, P. L. (2009). Is maternal marriage beneficial for low-income income adolescents? *Applied Developmental Science*, 13, 153-171.
- Coley, R. L., Bachman, H. J., Votruba-Drzal, E., Lohman, B. J., & Li-Grining, C. P. (2007). Family resources and adolescent characteristics as moderators of maternal welfare and employment experiences on adolescent well-being. *Children and Youth Services Review*, 29, 193-215.
- Li-Grining, C. P., Votruba-Drzal, E., Bachman, H. J., & Chase-Lansdale, P. L. (2006). Are certain preschoolers at risk in the era of welfare reform? The moderating role of children's temperament. *Children and Youth Services Review*, 28, 1102-1123.
- Bachman, H. J., & Chase-Lansdale, P. L. (2005). Custodial grandmothers' physical, mental, and economic well-being: Comparisons of primary caregivers from low-income neighborhoods. *Family Relations*, 54, 475-487.

## **Manuscripts Under Review and In Progress**

*\*denotes student co-author*

- Coulanges, L., Miller, P., Ptak, C., Liller, A., Libertus, M., Bachman, H. J., & Votruba-Drzal, E. *The Importance of Play: Associations with Self-Regulation and Academic Skills*. Manuscript under review.
- Elliott, L., Podvysotska, T., Libertus, M., Miller, P., Bachman, H. J., & Votruba-Drzal, E. *The home learning environment in the toddler years: Connections to socioeconomic status and early math and language skills*. Manuscript in revision.
- \*Silver, A., Elliott, L., Bachman, H., Votruba-Drzal, E., & Libertus, M. *Unpacking number word comprehension in early childhood*. Manuscript in revision.

## **Working Papers and Policy Briefs**

- Bachman, H. J., Coley, R. L., & Carrano, J. (2009, July). *Distinguishing between family structure and family instability on child well-being in low-income families*, Working Paper WP-09-07. National Center for Family and Marriage Research, Bowling Green State University, OH. [http://ncfmr.bgsu.edu/pdf/working\\_papers/file78713.pdf](http://ncfmr.bgsu.edu/pdf/working_papers/file78713.pdf)
- Bachman, H. J., Coley, R. L., & Carrano, J. (2010, May). *Changes in family structure: The consequences for child well-being* (RB-10-01). National Center for Family and Marriage Research, Bowling Green State University, OH. [http://ncfmr.bgsu.edu/pdf/research\\_briefs/file81879.pdf](http://ncfmr.bgsu.edu/pdf/research_briefs/file81879.pdf)

## **Reports**

- Bachman, H. J., & Navarro, M. (2020, September). *Ready To Learn Report from the Community Partnership Survey*. Prepared for the WQED early science and literacy RTL project funded by the Corporation for Public Broadcasting.
- Bachman, H. J., & Navarro, M. (2019, June). *PBS Kids Family Creative Learning report* prepared for

WQED and the Jefferson Regional Foundation.

Bachman, H. J., Henry, D., Elliott, L, Lucas, E., & Shafer, A. (2015, August). WQED *Math iQ* Program Evaluation. Prepared for the Corporation for Public Broadcasting and the Ready to Learn Program, Department of Education, Washington, DC.

## Sponsored Research Projects

### Current External Funding

- 8/15/24 – 8/14/29 Heather J. Bachman (PI), Melissa Libertus (co-PI) & Elizabeth Votruba-Drzal (co-PI). *Number and spatial skill development from 2 years to 2nd grade: Examining associations with the home math environment in early and middle childhood*. EHR Core grant from the National Science Foundation (\$3,679,974).
- 5/1/19 – 4/31/25 Melissa Libertus (PI). *How parents support young children's mathematical thinking across SES*. RO1 grant from the National Institutes of Child Health and Human Development (NICHD, \$3,056,395).  
Role: Co-investigator
- 8/1/23 – 7/31/25 Erin Starzynski (PI). *Improving Pre-K Math Literacy*. Richard King Mellon Foundation. (\$196,213)  
Role: Co-PI
- 9/1/20 – 8/31/25 Cathy Cook (PI). *Ready to Learn (RTL) Learning Neighborhoods*. Corporation for Public Broadcasting.  
Role: Co-I/Evaluator

### Completed External Funding

- 9/1/19 – 12/31/24 Heather Bachman and Elizabeth Votruba-Drzal (Co-PIs). *Early Emergence of Socioeconomic Disparities in Mathematical Understanding*. EHR Core grant from the National Science Foundation (\$2,108,317).
- 8/1/23 – 7/31/24 Erin Starzynski (PI). *Strengthening SEL via Family/Educator Engagement*. Birmingham Foundation. (\$40,000)  
Role: Co-PI
- 7/1/20 – 6/30/22 Linsah Coulanges (PI). *Digital media use and early math learning*. Research supplement to promote diversity in health-related research. (NICHD, \$151,830).  
Role: Graduate advisor and mentor. This supplemental award for our current RO1 grant provided 2 years of GSR support for Ms. Coulanges.
- 9/1/15 – 8/31/20 Cathy Cook (PI). *Ready to learn: Supporting early science & literacy learning for families*. Corporation for Public Broadcasting.  
Role: Co-I/Evaluator
- 5/1/15 – 4/30/17 Heather J. Bachman (PI). *The impacts of publicly funded school choice options*

*on income and ELL disparities in early elementary school.* (Spencer Foundation, #201500159). \$50,000.

- 8/1/14 – 8/31/15 Jennifer Stancil (PI). *Additive effects: Smart media scaffolding of ready to learn (RTL) in Pittsburgh initiative.* Corporation for Public Broadcasting. Role: Co-I/Evaluator
- 5/1/08 – 4/30/11 Heather J. Bachman (Co-PI) & Elizabeth Votruba-Drzal (Co-PI). *Early income disparities and academic trajectories: An analysis across contexts.* (NICHD, 1RO3HD056019-01A1). \$148,500.
- 5/1/08 – 8/31/11 Heather J. Bachman (PI). *Identifying child care, family, and child strengths that promote low-income children's school readiness skills.* (Spencer Foundation, #200800190). \$449,787.
- 8/1/06 – 7/31/07 Heather J. Bachman (Co-PI) & Elizabeth Votruba-Drzal (Co-PI). *Cross-contextual sources of economic disparities in early academic trajectories.* (Spencer Foundation, #200700066). \$39,725.
- 6/1/08 – 5/31/09 Heather J. Bachman (PI) & Rebekah Levine Coley (Co-PI). *Distinguishing between family structure and family instability on child and adolescent well-being in low-income families.* (National Center for Family and Marriage Research, External Grants Program on Marital and Family Instability, Bowling Green State University, OH). \$20,000.

### **Completed Internal Funding**

- 7/1/17 – 6/30/19 Melissa Libertus (PI). *How low- and high-SES parents support young children's mathematical thinking.* Learning Research and Development Center. \$149,962.  
Role: Co-PI
- 7/31/10 – 6/30/12 Heather J. Bachman (PI). *Community influences on parents' child care selection and children's school readiness skills.* (Central Research Development Fund, University of Pittsburgh). \$14,599.
- 1/10/11 – 1/09/12 Kalani M. Palmer (Co-PI) & Heather J. Bachman (Co-PI). *Parents and education: Examining decision-making in school choice and parent self-perceived role in education.* (Faculty and student research award, School of Education, University of Pittsburgh). \$2,993.55.
- 7/1/09 – 6/30/10 Nermeen El Nokali (Co-PI) & Heather J. Bachman (Co-PI). *Physical activity in preschool: Examining classroom practices, activity levels, and child outcomes.* (Faculty and student research award, School of Education, University of Pittsburgh). \$2,943.
- 7/1/06 – 6/30/08 Elizabeth Votruba-Drzal (Co-PI) & Heather J. Bachman (Co-PI). *Cross-contextual sources of economic disparities in early academic trajectories.* (Central Research Development Fund, University of Pittsburgh). \$11,572.



7/1/07 – 6/30/09 Heather J. Bachman (PI). *Child care instruction and growth in school readiness skills*. (Central Research Development Fund, University of Pittsburgh). \$15,667.

### **Invited Presentations**

Bachman, H. J. (February, 2017). *Grandparents raising grandkids: Implications for families experiencing opioid addictions*. Conference call with Senator Susan M. Collins' staff from the Senate Aging Committee.

Bachman, H. J. (September, 2016). *Low SES children's math exposure in private center-based care: Implications for math development*. Invited presentation for the Psychology Department, Carnegie Mellon University.

Bachman, H. J. & Degol, J. (April, 2014). *Linking early self-regulation skills and trajectories to adolescent well-being*. Invited presentation for the NYU Neuroscience and Education Lab (PIs: Cybele Raver and Clancy Blair), Steinhardt School of Culture, Education, and Human Development, NYU.

Bachman, H. J. (March, 2014). *Low SES children's math and science exposure in early education settings: Implications for math development*. Invited colloquium presentation for the Applied Developmental Psychology program, Lynch School of Education, Boston College.

Bachman, H. J. (February, 2014). *Low SES children's math and science exposure in early education settings: Implications for math development*. Invited colloquium presentation for the Department of Education, UCLA.

Bachman, H. J. (September, 2012). *Maternal partnership instability and adolescent well-being in low-income families*. Research Seminar for pre-doctoral students and postdoctoral scholars in the Psychiatric Epidemiology and Alcohol Research Training programs, which are jointly sponsored by the Departments of Psychiatry, School of Medicine, and Epidemiology, Graduate School of Public Health.

Bachman, H. J. (March, 2012). *Early exposure to math and science activities and young children's math development*. Brownbag series sponsored by the Learning Sciences and Policy program in the School of Education.

Bachman, H. J. (July, 2010). *Key measurement issues in the study of low-income families and school readiness*. Board on Children, Youth, and Families, The National Academies. Washington, D.C.

Bachman, H. J. (May, 2010). *Preschool teacher practices that support early literacy development*. Office of Planning, Research, and Evaluation, Administration for Children and Families, U.S. Department of Health and Human Services, Washington D.C.

Bachman, H. J. (March, 2010). *Preschool teacher practices that support early literacy development*. Brownbag series sponsored by the Department of Psychology, University of Pittsburgh.

Bachman, H. J. (February, 2007). *Early Experiences and School Success*. Board of Visitors meeting, School of Education, University of Pittsburgh.

Bachman, H. J. (April, 2006). *Families and children's early literacy development*. Annual meeting of the Early Learning Forum at the PA Department of Education.

Bachman, H. J. (September, 2005). *Improving literacy in America: Families and children's literacy*. Annual conference of the Beginning with Books Center for Early Literacy and University of Pittsburgh School of Education.

Bachman, H. J. (April, 2004). *Integrating child development research with child outcome and parenting studies*. Discussant paper for symposium session: Family structure and child outcomes. Annual meeting of the Population Association of America, Boston, MA.

## Conference Symposia

*\*denotes student co-author*

Bachman, H. J. (2022, April). Chair: *The relationship between screen-based media on child and adolescent development*. Roundtable discussion presented at the annual meeting of the American Educational Research Association (AERA), San Diego, CA.

Bachman, H. J. (2017, April). Chair: *Contextual Influences on Low-Income Children's Early Math Development*. Paper symposium presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

\*Scharphorn, L. & Bachman, H. J. (2011, April) Co-Chair: *Cross-Contextual Influences on Children's Academic Motivation*. Paper symposium at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec.

Bachman, H. J. (2009, April) Chair: *Experimental and nonexperimental instruction effects on early literacy development*. Paper symposium at the biennial meeting of the Society for Research in Child Development, Denver, CO.

Bachman, H. J. (2009, April) Chair: *Do maternal marital transitions promote positive outcomes for children and youth?* Paper symposium at the biennial meeting of the Society for Research in Child Development, Denver, CO.

\*El Nokali, N. E., & Bachman, H. J. (2009, April) Co-Chair: *Parent involvement and children's academic achievement and social skills from preschool through early adolescence*. Paper symposium at the biennial meeting of the Society for Research in Child Development, Denver, CO.

Bachman, H. J. (2007, April) Chair: *Economic disparities in early academic trajectories: Examining mediators of achievement gaps*. Paper symposium presented for presentation at the biennial meeting of the Society for Research in Child Development, Boston, MA.

Bachman, H. J., & Chase-Landsdale, P. L. (2005, April) Co-Chairs: *Positive child outcomes in*

*ethnically and economically diverse families: Implications for policy and research.* Paper symposium at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.

Bachman, H. J., & Chase-Landsdale, P. L. (2003, April) Co-Chairs: *An interdisciplinary examination of marriage and cohabitation effects on child and adolescent well-being.* Paper symposium at the biennial meeting of the Society for Research in Child Development, Tampa, FL.

Bachman, H. J., & Morrison, F. J., (2002, April) Co-Chairs: *Capturing the complexity of development: Comparisons of variable-based and person-oriented approaches.* Paper symposium at the biennial meeting of the Conference on Human Development, Charlotte, NC.

## Conference Presentations

\* denotes graduate student author

\*\* denotes undergraduate student author

\*Camarote, J., Pilato, J., Libertus, M., Votruba-Drzal, E., & Bachman, H. J. (2025, May). *Exploring Gender Differences in Early Spatial Ability: The Role of Home Spatial Activities.* Poster presented at the biennial Society for Research in Child Development, Minneapolis, MN.

Pilato, J., \*Pettit, N., Libertus, M., Votruba-Drzal, E., & Bachman, H. J. (2025, May). *Linking Family Socioeconomic Status to Spatial Skills: The Mediating Role of Financial Hardship.* Poster presented at the biennial Society for Research in Child Development, Minneapolis, MN.

Sites, A. M., McNeil K. M., Pilato, J., Votruba-Drzal, E., Bachman, H. J., & Libertus, M. (2025, May). *Unique Roles of Parental Education and Income for Investment in Academic Stimulation Activities in Toddlerhood.* Poster presented at the biennial Society for Research in Child Development, Minneapolis, MN.

\*Carvalho Pereira, J. M., Elliott, L., Miller, P., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. E. (2024, June). *Validation of a novel toddlerhood self-regulation measures and examining its relations to preacademic outcomes.* Poster accepted for presentation at the annual Mathematical Cognition and Learning Society conference, Gallaudet University, Washington, D.C.

\*Coulanges, L., Miller, P., \*Ptak, C., Liller, A., Libertus, M. E., Bachman, H. J., & Votruba-Drzal, E. (2024, June). *The importance of play: Associations with self-regulation and preacademic skills.* Poster accepted for presentation at the biennial National Research Conference on Early Childhood (NRCEC), Arlington, VA.

\*Leverett-Ptak, C., \*Coulanges, L., Votruba-Drzal, E., Libertus, M., & Bachman, H. J. (2024, April). *Unpacking sources of variability in parent math support in the home environment: A qualitative examination.* In N. Tulagan (Chair), *The role of caregivers in fostering student learning and development.* Paper accepted to the 2024 annual meeting of the American Educational Research Association, Philadelphia, PA.

\*Silver, A. M., Miller, P., Bachman, H. J., Libertus, M. E. & Votruba-Drzal, E. (2024, April). *Parent*

*predictors of the home math environment and associations with toddlers' math skills*. Paper accepted to the 2024 annual meeting of the American Educational Research Association, Philadelphia, PA.

\*Coulanges, L., Bachman, H. J., Libertus, M. E., & Votruba-Drzal, E. (2023, September). *Parent beliefs and child apps*. Poster presented at the Digital Media and Developing Minds International Scientific Congress, Washington, D.C.

\*Duong, S., \*Silver, A. M., Elliott, L. E., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. E. (2023, June). *Methodological considerations in number talk measurement*. Flash talk presented at the Mathematical Cognition and Learning Society conference, Loughborough, U.K.

Bachman, H. J., Miller, P., Elliott, L., Votruba-Drzal, E., & Libertus, M. (2023, April). *Self-regulation mediates SES disparities in several domains of early math skills*. Poster presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Bachman, H. J., Elliott, L., \*Podvysotska, T., Libertus, M., Miller, P., & Votruba-Drzal, E. (2023, March). *The Home Learning Environment in Toddlerhood: Connections to SES and Early Math and Language Skills*. Flash talk paper presented at the 2023 biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.

\*Carvalho Pereira, J. M., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. E. (2023, June). *Concurrent predictors of toddlers' spontaneous math focusing tendencies during a picture description task*. Poster presented at the Mathematical Cognition and Learning Society conference, Loughborough, U.K.

\*Carvalho Pereira, J. M., Elliott, L., \*Duong, S., \*\*Kothari, D., Lopiccolo, D., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. (2023, March). *Are some math talk types more/less related to concurrent math skills? Examining preschoolers' quantifier talk*. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.

\*Carvalho Pereira, J. M., Elliott, L., Miller, P., Montue, T., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. (2023, March). *A novel method for directly measuring toddlers' self-regulation skills remotely: The Find Bear task*. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.

\*Duong, S., \*Carvalho Pereira, J. M., Lopiccolo, D., Votruba-Drzal, E., Bachman, H. J., & Libertus, M. (2023, March). *Beneath counts: Exploring the dynamics of caregiver-child conversations about numbers and math in semi-structured activities*. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.

\*Duong, S., Davis, T., Votruba-Drzal, E., Bachman, H. J., & Libertus, M. (2023, March). It takes two to tango: Dynamic and reciprocal caregiver-child conversations about numbers and math. In I. Chandler-Campbell & S. Duong (Chairs), *Tinkerer, Investigator, Learner, Scientist: Promoting children's active role in informal STEM conversations*. Symposium paper presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.

- \*Fox, D., Votruba-Drzal, E., Bachman, H. J., & Libertus, M. (2023, March). *Assessing individual differences in toddlers' spatial cognition using a modified Test of Spatial Assembly (TOSA)*. Poster presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.
- \*Coulanges, L., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. E. (2023, March). *Examining predictors of young children's screen time during Covid-19*. Flash talk paper presented at the at the biennial meeting of the Society for Research in Child Development, Salt Lake City, Utah.
- \*Carvalho Pereira, J. M., \*Duong, S., Elliott, L., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. (June, 2022). *Toddlers' math talk in response to parents' math-related prompts, but not statements, predicts early numeracy*. Poster presented at the Annual Meeting of the Mathematical Cognition and Learning Society, Antwerp, Belgium.
- Elliott, L., \*Coulanges, L., Votruba-Drzal, E., Miller, P., Libertus, M., Bachman, H. J. (2022, June). *Alternative approaches to Measuring the Home Math Environment*. Paper presented to the Mathematical Cognition and Learning Society (MCLS) Conference.
- \*Silver, A. M., Elliott, L., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. (June, 2022). *Comparing mechanisms for number word acquisition*. Paper presented at the Annual Meeting of the Mathematical Cognition and Learning Society, Antwerp, Belgium.
- \*Silver, A. M., Elliott, L., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. (June, 2022). *Stability in toddlers' number word comprehension between 2 and 3 years*. Poster presented at the Annual Meeting of the Mathematical Cognition and Learning Society, Antwerp, Belgium.
- \*Coulanges, L., Bachman, H., Libertus, M., Votruba-Drzal, E. (2022, April). *Content and context in screen-based media exposure and young children's academic skills*. Roundtable paper accepted for presentation at the American Educational Research Association (AERA) annual conference: San Diego, CA.
- Elliott, L., Bachman, H. J., Votruba-Drzal, E., Miller, P., & Libertus, M. (2022, April). *Unpacking the home math environment: Examining dimensionality and selection factors in parent surveys*. Paper accepted for presentation at the American Educational Research Association Annual Meeting: San Diego, CA.
- \*Coulanges, L., Bachman, H., Libertus, M., & Votruba-Drzal, E. (November, 2021). *The influence of content and context in children's learning through screen-based media*. Poster presented to the Technology, Mind & Society conference of the American Psychological Association.
- \*Coulanges, L., Bachman, H., Libertus, M., & Votruba-Drzal, E. (2021, April). *Educational screen time exposure and children's literacy and numeracy skills*. Poster presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.
- \*Duong, S., Elliott, L., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. (2021, April). *Minute-by-*

*minute variations in parental number talk and their implications for coding parent-child interactions.* Poster presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.

\*Duong, S., Bachman, H., Votruba-Drzal, E., & Libertus, M. (2021, April). *Parents' Sensitivity to Child-Level Factors and the Relation to Parental Questioning During Dyadic Interactions.* Paper presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.

Kammerzell, J., \*Duong, S., Heywood, N., Isaacson, M., Libertus, M., Votruba-Drzal, E., & Bachman, H. (2021, April). *Exploring relations between parent and child factors and parental praise to preschool-aged children.* Poster presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.

Libertus, M., Miller, P., Elliott, L., Bachman, H. J., & Votruba-Drzal, E., (2021, April). *Relations among SES and children's Approximate Number System, number and spatial skills.* Paper presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.

Montue, T., Elliott, L., Heywood, N., \*Podvysotska, T., Miller, P., Bachman, H., Libertus, M., & Votruba-Drzal, E. (2021, April). *Differential Experiences of Financial Strain in Response to COVID-19.* Paper presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.

Sidoti, O. C., \*Duong, S., Bachman, H., Votruba-Drzal, E., & Libertus, M. (2021, April). *Variations in parental talk about numbers and money during pretend play with 4-year-olds.* Poster presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.

\*Silver, A. M., Braham, E. J., Elliott, L., Tamis-LeMonda, C., Cabrera, N., Bachman, H., Votruba-Drzal, E., & Libertus, M. E. (2021, April). *Measuring emerging number knowledge in toddlers.* Poster presented at the Society for Research in Child Development Biennial Meeting: Virtual Conference.

Bachman, H. J., Elliott, L., \*Navarro, M., \*Duong, S., Betancur, L., Votruba-Drzal, E., & Libertus, M. (2020). *Triangulating multi-method assessments of parental support for early math development.* Poster submitted to the annual conference of the National Council on Family Relations, St. Louis, MO.

\*Coulanges, L., Bachman, H., Votruba-Drzal, E., & Libertus, M. (November, 2020). *Digital Media Use and Early Learning.* Poster submitted to the annual conference of the National Council on Family Relations, St. Louis, MO.

Miller, P., Votruba-Drzal, E., Bachman, H., & Libertus, M. (May, 2020). *The Role of Play in Self Regulation and Early Academic Development: Differences by SES.* Poster accepted for the SRCD 2020 Special Topic Meeting: *Learning Through Play and Imagination*, rescheduled for April 2022.

- Bachman, H. J., Cook, C., \*Navarro, M., & Masciola, G. (2020, April). *Benefits of stakeholder-evaluator collaboration in the context of a public media-community partnership*. Paper accepted as part of the symposium “Learnings from research-stakeholder collaborations in a national network of public media-community partnerships” for presentation at the annual meeting of the American Educational Research Association, San Francisco, CA.
- \*Duong, S., \*Pitulski, S., Bachman, H., Votruba-Drzal, E., & Libertus, M. (2019, June). *Measuring the quality of parent-child interactions and the relation to preschool-aged children’s math skills*. Poster presented at the annual meeting of the Mathematical Cognition and Learning Society, Ottawa, Canada.
- \*Duong, S., \*\*Pitulski, S., Bachman, H., Votruba-Drzal, E., & Libertus, M. (2019, October). *What’s in a question? Parents’ questions in dyadic interactions and the relation to 4-year-old children’s math abilities*. Poster presented at the Biennial Meeting of the Cognitive Development Society, Louisville, KY, USA.
- \*\*Hughes, J., Elliott, L., \*Betancur, L., \*\*Lemmon, M., \*Blatt, L., Kammerzell, J., Votruba-Drzal, E., Bachman, H., Libertus, M. (2019, October). Using time diaries to measure parental support for spatial skills. Poster presented at *Biennial Meeting of the Cognitive Development Society, Louisville, KY, USA*.
- Bachman, H. J., \*Navarro, M., & \*Elliott, L. (2019, April). *Examining the sequencing of preschool programs and elementary school types for low-income children’s 3<sup>rd</sup> grade achievement*. Paper presented at the annual meeting of the American Educational Research Association, Toronto, Quebec.
- Bachman, H. J., \*Navarro, M., & \*Elliott, L. (2019, March). *Sequences of preschool program and elementary school types and low-income children’s achievement trajectories*. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- \*Navarro, M., & Bachman, H. J. (2019, March). *States’ language policies: Effects on Hispanic ELL children’s early reading growth*. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- Bachman, H. J., \*Elliott, L., \*Scott, P., & \*Navarro, M. (2018, April). *Short- and long-term benefits of preschool for Latino children: The moderating influence of home language*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- \*Navarro, M., & Bachman, H. J. (2018, April). *State policies for language of instruction: An exploration on the effects of early mathematics growth for Hispanic ELLs*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- \*Elliott, L., Bachman, H. J., & Henry, D. (2018, April). *Why and how do parents promote math learning with their young children?* Poster presented at the annual meeting of the American Educational Research Association, New York, NY.
- Bachman, H. J., \*Elliott, L., \*Scott, P., & \*Navarro, M. (2017, November). *Charter school*

*enrollment impacts for low-income children's early achievement trajectories*. Poster presented at the annual meeting of the Association for Public Policy Analysis and Management, Chicago, IL.

Bachman, H. J., \*Elliott, L., \*Scott, P., & \*Navarro, M. (2017, April). *The impact of charter school enrollment on low-income children's early math trajectories*. Paper presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

\*Elliott, L., & Bachman, H. J. (2017, April). *Parental support for early math: Understanding parents' practices*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

\*Navarro, M., & Bachman, H. J. (2017, April). *Hispanic children's early math growth: Comparisons across state policies for language of instruction with ELL students*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

Bachman, H. J., \*Elliott, L., & \*Scott, P. (2016, April). *Dynamic trends in kindergarten enrollment patterns in publicly funded schools of choice*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

\*Scott, P., Stone, C. A., Bachman, H. J., & \*Elliott, L. (2016, April). *Comparing Heckit and propensity methods under conditions when there is evidence of selection into treatment*. Poster presented at the annual meeting of the American Educational Research Association, Washington, DC.

Bachman, H. J., \*Keller, L., & \*Scott, P. (2015, April). *Maternal education transitions and changes in parents' academic socialization practices during elementary school*. Poster presented at the Strategic Plan poster session of the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

\*Degol, J., & Bachman, H. J. (2015, April). *Linking early self-regulation skills and trajectories to adolescent well-being*. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

\*Keller, L., & Bachman, H. J. (2015, April). *Parents' educational beliefs and enrichment practices: Potential moderation by socioeconomic status*. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

\*Castle, M. H., Bachman, H. J., & Votruba-Drzal, E. (2014, April). *Developmental patterns in associations between instructional practice and children's math trajectories in elementary school*. Paper presented at the annual meeting of the American Education Research Association, Philadelphia, PA.

Bachman, H. J., \*Saafir, A., \*Crews, S., & \*Palmer, K. (2013, November). *Unpacking child care center selection in low-income families*. Poster presented at the annual conference of the Association for Public Policy and Management, Washington DC.

\*Palmer, K., & Bachman, H. J. (2013, November). *Increases in education for Black women:*



*Implications for parent beliefs.* Paper presented at the annual conference of the National Council on Family Relations, San Antonio, Texas.

Bachman, H. J., \*Castle, M., & Votruba-Drzal, E. (2013, April). *Parental academic socialization and children's motivation and engagement in elementary school.* Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

Bachman, H. J., \*Degol, J., \*Scharphorn, L., El Nokali, N., & \*Palmer, K. (2013, April). *Preschool math and science exposure and low-SES children's math development.* Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

\*Degol, J., & Bachman, H. J. (2013, April). *Linking early childhood self-regulation to adult-child relationships and adolescent academic engagement.* Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

El Nokali, N., & Bachman, H. J. (2013, April). *Physical activity and self-regulation in elementary school.* Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

\*Scharphorn, L., & Bachman, H. J. (2013, April). *Growth trajectories of friendship quality and children's social and academic functioning from third to sixth grades.* Paper presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

Coley, R. L., \*Carrano, J., & Bachman, H. J. (2012, March). Lifetime family structure patterns and adolescent psychosocial functioning. In R. L. Coley (Chair), *Beyond family structure: The influence of parental relationship instability on adolescent well-being.* Symposium paper presented at the biennial meeting of the Society for Research on Adolescence, Vancouver, BC, Canada.

Bachman, H. J., Coley, R. L., & \*Carrano, J. (2011, November). Low-income mothers' patterns of partnership instability and adolescents' behavioral and emotional well-being. In S. Brown (Chair), *Family instability and child well-being.* Symposium paper presented at the annual meeting of the National Council on Family Relations, Orlando, FL.

Bachman, H. J., Votruba-Drzal, E., \*El Nokali, N. & \*Castle, M. H. (2011, April). Instructional practices that support math development and narrow SES achievement gaps during elementary school. In T. Morrissey (Chair), *Exploring mechanisms for poverty's effects on student achievement: Proximal processes, school attendance, and neighborhood effects.* Symposium paper presented at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec, Canada.

\*Degol, J., & Bachman, H. J. (2011, April). *Supporting preschoolers' growth in self-regulation: The role of teacher socialization and classroom management.* Poster presented at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec.

\*DeMauro, A., & Bachman, H. J. (2011, April). *The influence of classroom age composition on teacher practices in urban preschool classrooms.* Poster presented at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec.

- \*Palmer, K., & Bachman, H. J. (2011, April). *The role of parental education in the home literacy environment of African American preschoolers*. Poster presented at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec.
- \*Scharphorn, L. & Bachman, H. J. (2011, April). *Best friend influences on children's motivation, perceived competence, and achievement*. Symposium paper presented at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec.
- \*Scharphorn, L. & Bachman, H. J. (2011, April). *Social and psychological effects of close friendships during middle childhood: A longitudinal analysis using the NICHD SECCYD*. Poster presented at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec.
- Bachman, H. J. (April, 2010). *Preschool instructional practices that promote children's emergent literacy skills*. Roundtable paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Bachman, H. J. (April, 2010). *Teacher practices in center-based care that promote 4 year-old children's emergent literacy skills*. Poster presented at the biennial meeting of the Conference on Human Development, New York, NY.
- \*Degol, J., & Bachman, H. J. (April, 2010). *Classroom practices that support social competence among preschoolers*. Poster presented at the biennial meeting of the Conference on Human Development, New York, NY.
- \*Scharphorn, L., & Bachman, H. J. (April, 2010). *The importance of a best friend during middle childhood: Longitudinal associations of friendship quality and friends' characteristics with children's academic and social functioning*. Paper presented at the biennial meeting of the Conference on Human Development, New York, NY.
- Bachman, H. J., Coley, R. L., & \*Carrano, J. (November, 2009). *Distinguishing family structure and instability effects for low-income children and youth*. Poster presented at the annual meeting of the Association for Public Policy Analysis and Management, Washington DC.
- Bachman, H. J., Votruba-Drzal, E., \*Terhorst, L., & \*Scharphorn, L. (2009, April). *First grade instructional practices and growth in children's reading skills*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Bachman, H. J., Coley, R. L., & \*Carrano, J. (April, 2009). *Distinguishing between family structure and family instability on child and adolescent well-being in low-income families*. Paper presented at the National Center for Marriage Research 2008 External Grantees conference, Bowling Green State University, OH.
- Bachman, H. J., Votruba-Drzal, E., \*Terhorst, L., & \*Scharphorn, L. (2009, April). *First grade instructional practices that promote growth in reading for low-income children*. Paper presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.

- Bachman, H. J., Coley, R. L., & Chase-Lansdale, P. L. (2009, April). *Is maternal marriage beneficial for low-income adolescents?* Paper presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- \*El Nokali, N.E., Bachman, H. J., & Votruba-Drzal, E. (2009, April). Parent involvement in elementary school: Relations with academic and social competence. Paper presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- \*Scharphorn, L. & Bachman, H. J. (2009, April). *The role of friend and peer relationship quality on child well-being throughout elementary school.* Poster presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- Votruba-Drzal, E., Bachman, H. J., \*Davis, S., & \*Maldonado, C. (2009, April). Socioeconomic disparities in early achievement trajectories: Roles of income, education, and occupational prestige. In E. Votruba-Drzal (Chair), *Early achievement disparities by race/ethnicity and social class: Strengthening our understanding of process.* Symposium paper presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- Bachman, H. J., Votruba-Drzal, E., Terhorst, L., & Scharphorn, L. (2008, April). *Teacher practices that moderate economic disparities in achievement.* Paper presented at the biennial meeting of the Conference on Human Development, Indianapolis, IN.
- \*Mohan, R., Bachman, H. J., & Votruba-Drzal, E. (2008, April). *Learning-related social skills and trajectories of academic achievement in middle childhood.* Paper presented at the biennial meeting of the Conference on Human Development, Indianapolis, IN.
- \*El Nokali, N. E., Bachman, H. J., & Votruba-Drzal, E. (2008, April). *Within- and Between Child Associations among Parent Involvement and Academic and Social Skills in Elementary School.* Paper presented at the biennial meeting of the Conference on Human Development, Indianapolis, IN.
- \*Scharphorn, L. & Bachman, H. J. (2008, April). *Children's Relationships with their Mother and Peers as Predictors of Academic Achievement, Behavior Problems, and Social Skills in Middle Childhood.* Paper presented at the biennial meeting of the Conference on Human Development, Indianapolis, IN.
- Bachman, H. J., & \*Mohan, R. (2007, April). *Examining home mediators of early economic disparities and later academic trajectories from 54 months – Grade 5 in the NICHD SECC.* Paper presented for presentation at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- \*El Nokali, N. E., & Bachman, H. J. (2007, April). *Unpacking parent involvement: Links to first grade academic, social, and behavioral skills.* Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Bachman, H. J., \*Palacios, N., & Chase-Lansdale, P. L. (2006, April). *Family and child strengths*

*that promote early reading and math proficiency.* Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Bachman, H. J., \*Palacios, N., & Chase-Lansdale, P. L. (2006, March). *Family and child strengths that promote early reading and math proficiency in low-income minority preschoolers.* Poster presented at the annual meeting of the Population Association of America, Los Angeles, CA.

Bachman, H. J., & Chase-Lansdale, P. L. (2005, April). *Family and child strengths that promote normative cognitive development for urban, low-income preschoolers.* Paper presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.

Bachman, H. J., Coley, R. L., & Chase-Lansdale, P. L. (2003, September). *Marriage or partnering? Effects of cohabitation and family structure changes on child and adolescent well-being.* Paper presented at the first annual conference of the National Poverty Center, Washington DC.

Bachman, H. J., & Chase-Lansdale, P. L. (2003, April). *Family structure or father involvement? Effects of cohabitation and marital transitions on children's developmental trajectories.* Paper presented at the biennial meeting of the Society for Research in Child Development, Tampa, FL.

Bachman, H. J. (2003, April). *Identifying factors that promote normative literacy development for low-income children.* Poster presented at the biennial meeting of the Society for Research in Child Development, Tampa, FL.

Bachman, H. J., & Chase-Lansdale, P. L. (2002, November). Forgotten hard-to-serve: Examining custodial grandmothers' welfare receipt and caregiving burden. In A. C. Lin (Chair), *Understudied populations in welfare reform.* Paper presented at the twenty-fourth annual Association for Public Policy Analysis and Management (APPAM) research conference, Dallas, TX.

Bachman, H. J., & Chase-Lansdale, P. L. (2002, June). *Uncovering multiple pathways for positive development among low-income children.* Poster presented at the annual Summer Institute of the Family Research Consortium III, Charlotte, NC.

Bachman, H. J., & Morrison, F. J. (2002, April). Comparing variable-based and person-oriented procedures directly: SEM vs. clustering. In H. J. Bachman & F. J. Morrison (Chairs), *Capturing the complexity of development: Comparisons of variable-based and person-oriented approaches.* Symposium paper presented at the biennial meeting of the Conference on Human Development, Charlotte, NC.

Bachman, H. J. (2001, June). *Phonological skills and early reading: Sources of influence and performance discrepancies.* Poster presented at the annual meeting of the Society for the Scientific Study of Reading, Boulder, CO.

Bachman, H. J. (2001, April). *Early phonological skill growth: The influences of schooling and phonemic complexity.* Poster presented at the biennial meeting of the Society for Research in Child Development, Minneapolis, MN.

- Bachman, H. J., & Morrison, F. J. (2000, April). *Charting pathways for early language development: Examining interactions among child and family characteristics*. Poster presented at the biennial meeting of the Conference on Human Development, Memphis, TN.
- Bachman, H. J., & Frese, M. K. (2000, April). *Long-term impact of entrance age on academic achievement: Interactions with IQ and work-related social skills*. Poster presented at the biennial meeting of the Conference on Human Development, Memphis, TN.
- Bachman, H. J. (1999, April). How did we get here? Examining the sources of White-Black differences in academic achievement. In F. J. Morrison (Chair), *Racial differences in academic achievement: When and why?* Symposium paper presented at the biennial meeting of the Society for Research in Child Development meeting, Albuquerque, NM.
- Bachman, H. J., & Frese, M. K. (1999, April). *Children at risk for school failure: The interaction of entrance age, IQ, and social skills*. Poster presented at the biennial meeting of the Society for Research in Child Development meeting, Albuquerque, NM.
- Bachman, H. J. (1998, April). *The effects of race and social class on children's literacy skills at kindergarten entry*. Poster presented at the fifth annual meeting of the Society for the Scientific Study of Reading, San Diego, CA.
- Bachman, H. J. (1998, March). Race and social class as risk factors for early literacy development. In F. J. Morrison (Chair), *Early prediction of achievement and adaptation problems in elementary school*. Symposium conducted at the Conference on Human Development biennial meeting, Mobile, AL.

## **Honors and Awards**

- Faculty Research Award, School of Education, University of Pittsburgh, 2008.
- Dissertation defense passed with distinction, Loyola University Chicago, 2001.
- Masters Thesis defense passed with distinction, Loyola University Chicago, 1999.

## **Courses Taught**

### **Graduate**

- EDUC 3102 First Year Doctoral Seminar I (Fall 2014)
- EDUC 3105 First Year Doctoral Seminar II (Spring 2015)
- EDUC 2000 Psychology of Learning and Development for Education (Summer 2014, 2015, 2017, 2018; Spring 2021, 2022, 2023)
- PSYED 2530 Applied Issues on Children and Families in Society Proseminar (Spring 2006)
- PSYED 3190 Research Seminar (Fall 2007, Fall 2009, Fall 2011, Fall 2013, Spring 2017, Spring 2019, Spring 2021)
- PSYED 3589 Special topics: Poverty and Family Policy (Spring 2008, 2009)
- PSYED 3589 Special topics: Families and Parenting (Spring 2010)
- PSYED 2588/3531 Family Influences on Child Development (Spring 2011, 2012, 2018, 2022)

### **Undergraduate**

- PSYED 1002 Child Development (Fall 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023)

PSYED 1089 Special topics: Poverty and Family Policy (Spring 2009)

PSYED 1089 Special topics: Family Influences on Child Development (Spring 2010, 2011, 2013)

### **University Service**

2025-2027	Provost's Advisory Council on Tenure and Promotion (PACTP)
2022-present	Faculty liaison for the College in High School program
2022-2025	Parent representative on Fanny Edel Falk Laboratory School board
2022-2023	Invited member of the Human Data and Biological Samples Sharing Policy Committee
2017-2020	Faculty Assembly
2018-2020	University Senate

### **School, Departmental, and Program Service**

2022-2023	Co-Chair, ADP Assistant Professor of Practice search committee
2020-2023	ADP committee member for the Jeremy Johnson Landon PhD memorial student awards committee in collaboration with Developmental Psychology faculty
2021-2022	Chair, Taskforce for Applied Developmental Psychology undergraduate and Master's program enrollment and curriculum
2021-2022	Pitt University Child Development Center (UCDC) Director search committee
2021	Visiting ADP Assistant Professor search committee
2019	Chair, ADP Assistant Professor of Practice search committee
2016-present	ADP Undergraduate Curriculum Committee
2006-present	Applied Developmental Psychology doctoral program committee
2018	Chair, Visiting ADP Assistant Professor search committee
2017	Ad hoc Promotion and Tenure Committee for faculty hire in Center for Urban Education, School of Education
2016-2017	Faculty search committee, School of Education, Research Methods program
2016-2017	School of Education, Co-Chair of School of Education PhD Committee
2014-2015	Faculty search committee, School of Education and LRDC
2012-2015	Doctoral Program Coordinator, Applied Developmental Psychology program
2012-2015	School of Education, Promotion and Tenure Committee
2012-2015	School of Education, Chair of PhD Program Redesign Committee
2012	School of Education, Visiting Scholars Committee
2011-2012	School of Education, Academic Affairs Committee
2010	School of Education Centennial Conference committee
2010-2011	School of Education Restructuring committee
2006-2009	School of Education Faculty and Student Research committee
2009-2010	Faculty search committee, Department of Psychology in Education
2007-2008	Faculty search committee, Department of Psychology in Education
2006-2007	Faculty search committee, Department of Instruction and Learning
2006-2010	Applied Developmental Psychology doctoral program committee
2006-2008	Coordinator of community partnerships initiative with Applied Developmental Psychology program and community-based child care centers.
2006-2008	Applied Developmental Psychology program, Masters research track committee
2006-2007	Developed and coordinated Undergraduate Career and Graduate Study seminar series
2006, 2008	Consulted with ECE and Elementary Education Certification committee

## **Other Professional Service**

### **Invited Member of Content Review Panel**

2019   Preschool Parent Survey Content Review Panel (CRP) for the Early Childhood Longitudinal Study, Kindergarten Class of 2022-23 (ECLS-K:2023).

### **Editorial Board**

2018-present   *Early Childhood Research Quarterly*

### **Invited reviewer for special journal issues**

2015   “Neuroscience and Family Studies” in *Family Relations: Interdisciplinary Journal of Applied Family Studies*.

2010   “Self-regulation in Early Childhood: Assessment and Educational Implications for Early Education and Development,” in *Early Education and Development*.

2006   “How Are Low-Income Children and Families Faring A Decade after Welfare Reform? Evidence from Five Non-Experimental Panel Studies,” in *Children and Youth Services Review*, 29(6).

### **Ad-hoc manuscript reviewer**

*AERA Open Journal*

*American Educational Research Journal*

*Child Development*

*Child Development Perspectives*

*Children and Youth Services Review*

*Developmental Psychology*

*Early Education and Development*

*Early Childhood Research Quarterly*

*Educational Researcher*

*Family Relations*

*Journal of Applied Developmental Psychology*

*Journal of Educational Psychology*

*Journal of Family Issues*

*Journal of Learning and Individual Differences*

*Journal of Marriage and Family*

### **Ad-hoc grant proposal reviewer**

2025       Invited ad hoc grant reviewer for the Division of Undergraduate Education (EDU/DUE), The National Science Foundation

2024       Invited ad hoc grant reviewer, the National Institute on Minority Health and Health Disparities (NIMHD) at the National Institutes of Health (NIH), Special Emphasis Panel (SEP): Research Centers in Minority Institutions (RCMI)

2024, 2022   Invited ad hoc grant reviewer, Social Sciences and Population Studies A (SSPA), NICHD, Washington D.C.

2014-2015   Study Section member, Population Sciences Committee, NICHD, Washington D.C.

2010 - 2014   Invited ad hoc grant reviewer, NICHD/ NIH, Population Sciences Committee.

July 2014   OPRE Child Care Dissertation Grants

June 2013 Temporary Study Section member, Population Sciences Committee, NICHD, Washington D.C.  
 2011, 2013 Invited ad hoc grant reviewer, Spencer Foundation.  
 2008, 2009 Invited reviewer: *Ready to Learn* Project. Department of Education, Washington D.C.  
 2002 Ad hoc grant reviewer, William T. Grant Foundation

#### **Ad-hoc policy brief reviewer**

2008-09 Invited co-editor of policy briefs for the Learning Policy Center, University of Pittsburgh.

#### **Scientific conference submission reviewer**

2003, 2014 Head Start's National Research Conferences  
 2009 *AERA 2010 Conference- Reviewer for Division L (Education Policy and Politics), Section 3 (Curriculum, Testing, and Instructional Practice)*  
 2008 SRCD 2009 Conference- Reviewer for Panel 27- *Public Policy*  
 2006 SRCD 2007 Conference- Reviewer for Panel 14- *Education and development: Literacy, math, and science*

#### **Advisory Board**

2007-08 Invited oversight committee member for Family Centers of Excellence in School Readiness project at the Office of Child Development, University of Pittsburgh.

#### **Other Professional Activities**

2021-present Affiliate member of Research-to-Policy Collaboration (RPC) Rapid Response Network at the Prevention Science Center at Penn State University  
 2011 Senior mentor for the Society for Research in Child Development (SRCD) Millennium Scholars Program.  
 2008-09 Invited Participant in the *2008 Leadership Training Institute: Career Advancement for Diverse Researchers*, Bethesda, MD. Sponsored by the National Institute of Mental Health (NIMH) and presented by the 3-C Institute for Social Development.  
 2007 Pre-K CLASS (Classroom Assessment Scoring System) reliability and train-the-trainer workshops. University of Virginia.  
 2007 Invited Participant in Family Research Consortium IV Summer Institute.  
 2006 SSI Hierarchical Data Modeling with HLM 6 Workshop. Instructors: Stephen Raudenbush, University of Chicago and Anthony Bryk, Stanford University.  
 2002, 2003 Invited Participant in Family Research Consortium III Summer Institutes.

#### **Professional Affiliations**

American Educational Research Association (AERA)  
 Society for Research in Child Development (SRCD)

#### **Student Research Supervision and Committees**

##### **Doctoral (Ph.D.) students**

##### **Committee Chair**

Nathaniel Pettit, Health and Human Development, School of Education	2024-present
Joei Camarote, Developmental Psychology, School of Arts & Sciences	2023-present
Linsah Coulanges, Developmental Psychology, School of Arts & Sciences	2019-2025
Monica Navarro, Learning Sciences and Policy program, School of Education	2015-2022



Christina Scanlon, Health and Human Development, School of Education	2019-2021
Leanne Elliott, Developmental Psychology, School of Arts & Sciences	2013-2019
Jessica Degol, Department of Psychology in Education, School of Education	2009-2013
Kalani Palmer, Department of Psychology in Education, School of Education	2010-2013
Laura Scharphorn, Department of Psychology in Education, School of Education	2007-2012
Nermeen El Nokali, Department of Psychology in Education, School of Education	2005-2011
Roli Mohan, Department of Psychology in Education, School of Education	2006-2009

***Committee Member (Completion Date)***

Maggie Miller, Department of Health and Human Development (active)  
Danielle Fox, Department of Psychology (active)  
Jorge M. Carvalho Pereira, Department of Psychology (active)  
Emanuelle Chelles, Department of Psychology (active)  
Qianjin Guo, Department of Psychology (active)  
Tamara Podvysotska, Department of Psychology (active)  
Shirley Duong, Department of Psychology (2024)  
Lorraine Blatt, Department of Psychology (2024)  
Chelsea Ptak, Department of Psychology (2024)  
Julia Feldman, Department of Psychology (2023)  
Rebecca McGregor, Department of Psychology (2022)  
Ashley Shafer, Department of Health and Human Development (2021)  
Rebecca Stoffel, Department of Health and Human Development (2020)  
Laura Betancur, Department of Psychology (2020)  
Emily Braham, Department of Psychology (2019)  
David Keibler, School of Education (EdD; 2019)  
Kenneth Smythe-Leistico, School of Education (EdD; 2018)  
Lindsay Taraban, Department of Psychology (2018)  
Paul Scott, Department of Psychology in Education, School of Education (2018)  
Jennifer Ely, Department of Administration and Policy Studies (2018)  
Daphne Henry, Department of Psychology (2017)  
Emma Satlof-Bedrick, Department of Psychology (2017)  
Jesse Drummond, Department of Psychology (2017)  
A.J. Koury, Department of Psychology (2015)  
Hilary Warner, Department of Psychology in Education (2015)  
Melissa Castle, Department of Psychology (2014)  
Portia Miller, Department of Psychology (2014)  
Jakraphan Riamliw, Department of Instruction and Learning (2013)  
Jolene Zywica, Learning Sciences and Policy (2013)  
Amy Shannonhouse, Department of Health and Physical Activity (2012)  
Hsiang-Yeh Ho, Department of Psychology in Education, School of Education (2011)  
Melissa Brydon, Department of Instruction and Learning (2010)  
Carolina Maldonado, Department of Psychology in Education, School of Education (2008)  
Debbie Conway, Department of Psychology in Education, School of Education (2007)  
Tracy Hoge, Department of Psychology in Education, School of Education (2007)  
Lauren Terhorst, Department of Psychology in Education, School of Education (2007)

***Research Supervisor***

Daphne Henry 2014-2015

Elaine Lucas	2014-2015
Rebecca Munnell-McHugh	2009-2010

***Specialty (Comprehensive) Exam Committee Member***

Meghan Orman	Michael Tumminia
Sharika Bhattacharya	Joseph Pieri
Cara Marcinek Bliss	Jai Wha Seo
Karen Dryer	Rebecca Stoffel
Amy Gee	Mary Wolfson
Sherrell Hicklen	Annie Wang
Christy Horner	Hilary Warner
Elizabeth Levine-Brown	Ashley Shafer

**Masters (M.S.) students**

***Committee Chair***

Anthony DeMauro, Department of Psychology in Education, School of Education	2009-2011
Anthony Swentosky, Department of Psychology in Education, School of Education	2006-2008

***Committee Member (Completion Date)***

Dyana Ennad Murrell, Department of Psychology in Education, School of Education (2008)
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***Research Supervisor***

Jordan Pollard (School of Social Work)	2020
Teri Gilmore	2014-2015
Ashley Shafer	2014-2015
Amber Harris-Fillius	2009-2010
Jennifer Ely	2007-2008

***Academic Advisor***

Alonna Grigsby	2011-2013
Claudia P. Ovalle-Ramirez	2009-2011
Myounghee Oh	2007-2008
Lindsay Nickel	2007-2008
Kristina McCallen	2006-2007
Cristal Cioci	2005-2007
Rachel Miller	2005-2007

***Specialty (Comprehensive) Exam Committee Member***

Li-Lin Chen	Luisa Nayhouse
Rachel Farber	Christina Scanlon
Lindsay Gruber	Stephanie Sivers
Ashley Hurley	Kathleen Shissler Hollingshead
Mona Kamal	Courtney Smith
Brian Kluchurosky	Kate Falcone-Smith
Erin Stewart-Krol	Amanda Stewart
Lara Kitko	Kilang Wang
Xiaojiao Li	Laura Williams
Hsin-Ju Hsiao	Monica Barreto

Amanda Tincknell  
Qi Cheng  
Alyssa Monastero  
Jie (Stella) Yan  
Amber Terwilliger  
Sara McDonald  
Evan Brnich  
Alyssa Deley  
Jamie Cranmer  
Gigi Stephens  
Sarah Peters  
Wenying Bai  
Grace Lekburg

Kelly Martin  
Chong Lin  
Lauralee Neale  
Kristin Duns  
Emma Nowak  
Holley Lorber  
Christina Semanchik  
Carly Weber  
Hannah Philips  
Hannah Cristofano  
Grace Whited  
Carolyn Antall  
Leanne Santavicca

**Undergraduate (B.S.) students**

***Learning Research and Development Center (LRDC) Summer Internship Program***

Koieanna Rice-Cutts (2023)

***Honors Thesis and BPhil Committees***

Sasha Hofman (2020-2021)

Olivia Knecht (2020-2021)

***Post-Baccalaureate (Hot Metal Bridge) Program***

Annette Tull (2022-2023)

Hateya Foxx (2021-2022)

Natalie Heywood (2019-2020)

Amirah Saafir (2012-2013)

***Research Supervisor***

Carolyn Gibbs, Research Assistant

Kelly Heffner, Research Assistant

Lauren Klingensmith, Research Assistant

Ashley Lynch, Research Assistant

Jennifer Mayo, Research Assistant

Ashya Porter, Research Assistant

Brenna Sapotchine, Research Assistant

Molly Scott, Research Assistant

Nicholas Scarpino, Research Assistant

Robyn Tedder, Research Assistant

Jessica Burch, Senior Project in Applied Research (PSYED 1031)

Maria Hoff, Senior Project in Applied Research (PSYED 1031)

Chelsea Pennypacker, Senior Project in Applied Research (PSYED 1031)

Marissa Sherman, Senior Project in Applied Research (PSYED 1031)

Erin Stewart, Senior Project in Applied Research (PSYED 1031)

Victoria Barrett, Directed Study (PSYED 1099)

Justin Coy, Directed Study (PSYED 1099)

Delaina Johnson, Directed Study (PSYED 1099)

Moriah Kearney, Directed Study (PSYED 1099)

Noelle Newhams, Directed Study (PSYED 1099)  
Staci Zsilavec, Directed Study (PSYED 1099)  
Sabrina Crews, Volunteer  
Jennifer Fisher, Volunteer  
Madison Knapp, Volunteer