CURRICULUM VITAE
ELIZABETH VOTRUBA-DRZAL

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POST-SECONDARY EDUCATION

Northwestern University, Evanston, IL Human Development and Social Policy	Ph.D. 2004
Michigan State University, East Lansing, MI James Madison College/ Honors College Social Relations, with High Honors	B.A. 1996

PROFESSIONAL EMPLOYMENT AND EXPERIENCE

Professor	2018 - present
Chair, Department of Psychology	2023 - present
Chair, Developmental Psychology Program	2022
Director of Diversity Initiatives in Psychology	2017 - 2022
Associate Professor, Department of Psychology	2011 - 2018
Assistant Professor University of Pittsburgh, Pittsburgh, PA Secondary Appointments -Learning Sciences and Policy, Psychology in Education, School of Education	2005 - 2011
Senior Scientist, Learning Research and Development Center	2019 - present
Research Scientist, Learning, Research, and Development Center	2017 - 2019
Research Affiliate, National Poverty Center, Ann Arbor, MI	2009 – 2015
Faculty Affiliate, Center on Race and Social Problems, University of Pittsburgh, Pittsburgh, PA	2005 - present
Outreach and Coalition Services Coordinator, Child Watch, Children's Defense Fund, Washington, DC	1997 – 1998
Legislative Correspondent / Internship Coordinator, Office of U.S. Senator Carl Levin, Washington, DC	1996 – 1997
Intern, Family Income Division, Children's Defense Fund Washington, DC	1996

HONORS, AWARDS, AND FELLOWSHIPS

Young Scholars Fellowship, Foundation for Child Development	2010 – 2012
Honorable Mention Dissertation Award Association for Public Policy Analysis and Management	2004
Co-Recipient of Social Policy Award Best Journal Article	2004

Society for Research in Adolescence

Dissertation Year Fellowship 2003
Spencer Foundation

Dissertation Year Fellowship 2003
Northwestern University

Graduate Fellowship 2001 - 2003
Joint Centers for Poverty Research
Northwestern University & University of Chicago

Graduate Fellowship 1999 - 2000
Institute for Policy Research
Northwestern University

Phi Beta Kappa, Phi Kappa Phi 1996
Michigan State University

PEER-REVIEWED JOURNAL ARTICLES

1. 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.* DOI: 10.5964/jnc.11351.

2. Coulanges, L., Bachman, H., J., Libertus, M., Votruba-Drzal, E. (2024). Examining Profiles of Children's Screen Time and Associations with Academic Skills. *Journal of Children and Media.* DOI:10.1080/17482798.2024.2327021.

3. Blatt, L., Sadler, R., Jones, E., Miller, P., Hunter-Rue, D.S., & **Votruba-Drzal**, E. (2024). Historical structural racism in the build environment and contemporary children's opportunities. *Pediatrics.* DOI: 10.1542/peds.2023-063230.

4. Blatt, L., Delale-O'Connor, L. A., Binning, K. R., & **Votruba-Drzal**, E. (2024). School segregation and social processes that shape early and middle childhood development. *Educational Psychologist.* DOI: 10.1080/00461520.2023.2282443

5. Miller, P., Blatt, L., Barry, K. Hunter, D., Jamal-Orozco, N., **Votruba-Drzal**, E. & Hanson, J. (2024). Family Income, Hardship, and Adolescent Behavioral Outcomes: Between- and Within-Family Associations. *Development and Psychopathology.* DOI: 10.1017/S0954579423001451

6. Kruzik, C., Coley, R.L., **Votruba-Drzal**, E., Spielvogel, B., Henry, D. A., & Betancur, L. (2023). The early emergence of SES achievement gaps: Disparities across race, ethnicity, and immigrant status. *Race and Social Problems.* DOI:10.1007/s12552-023-09402-w

7. Fox, D. S., Elliott, L., Bachman, H. J., **Votruba-Drzal**, E. & Libertus, M. L. (2023). Diversity of spatial activities and parents' spatial talk complexity predict preschoolers' growth in spatial

cognition. Manuscript in revision for invited resubmission. *Child Development.* DOI:10.1111/cdev.14024

8. Nur, A.A., Leibbrand, C. Curran, S.R., **Votruba-Drzal**, E., & Gibson-Davis, C. (2023). Managing and minimizing online survey questionnaire fraud: Lessons from the Triple C Project. *International Journal of Social Research Methodology: Theory and Practice.* DOI: 10.1080/13645579.2023.2229651

9. Jones, E.J., Marsland, A.L. Kraynak, T.E., **Votruba-Drzal**, E. & Gianaros, P.J. (2023). Subjective social status and longitudinal changes in systemic inflammation. *Annals of Behavioral Medicine.* DOI: 10.1093/abm/kaad044

10. Betancur, L., Miller, P. & **Votruba-Drzal**, E. (2023) Urban-Rural Achievement Gap in Low- and Middle-Income Countries: The Role of Early Childhood Education. *Early Childhood Research Quarterly.* DOI: 10.1016/j.ecresq.2023.08.008

11. 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.* DOI:10.1016/j.cogdev.2023.101327

12. Gianaros, P., Miller, P., Manuck, S. B., Kuan, D. C-H., Rosso, A. L., **Votruba-Drzal**, E., & Marsland, A. L. (2023). Beyond Neighborhood Disadvantage: Local Resources, Greenspace, Pollution, and Crime as Residential Community Correlates of Cardiovascular Risk and Brain Morphology in Midlife Adults. *Psychosomatic Medicine.* DOI:10.1097/psy.0000000000001199

13. 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*, 14, Special Issue: *Informal STEM Learning at Home and in Community Spaces*. DOI: 10.3389/fpsyg.2023.1105569

14. 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. DOI: 10.1016/j.ecresq.2022.08.002

15. Miller, P., *Betancur, L., Kammerzell, J., Libertus, M., Bachman, H. J., &**Votruba-Drzal**, E. (2022). Relations between play and preschoolers' self-regulation and academic skills. *Journal of Applied Developmental Psychology*. DOI: 10.1016/j.appdev.2022.101470

16. Dickman, K. D., **Votruba-Drzal**, E., Matthews, K.A. & Kamarck, T.W. (2022). Early Life SES, Childhood Trauma Exposures, and Cardiovascular Responses to Daily Life Stressors in Middle-aged Adults. *International Journal of Behavioral Medicine.* DOI: 10.1007/s12529-022-10141-2

17. Elliott., L., Bachman, H. J., Carvalho Pereira, J., Coulanges, L., Doung, 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*. In special issue on *The Interplay between Cognition and Emotion*. DOI: /10.1016/j.infbeh.2022.101779

18. Carver, C.E., Duong, S., Bachman, H., **Votruba-Drzal**, E. & Libertus, M.E. (2022). Examining relations between parental feedback types and preschool children's academic skills. *International Journal of Psychological Studies, 14.* : DOI: /10.5539/ijps.v14n4p1

19. Elliott, L., **Votruba-Drzal**, E., Miller, P., Libertus, M., & Bachman, H. J. (2022). Unpacking the Home Numeracy Environment: Examining Dimensions of Number Activities in Early Childhood. *Early Childhood Research Quarterly, 62,* 129 – 138. DOI:10.1016/j.ecresq.2022.08.002

20. 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, and spatial skills: The role of executive function. *Journal of Experimental Child Psychology.* DOI: doi.org/10.1016/j.jecp.2022.105453

21. Bining, K, Blatt, L., Chen, S., & **Votruba-Drzal**, E. (2021) Going to college with a posse. *American Educational Research Association Open.* DOI: 10.1177/23328584211049223

22. Silver, A.M., Elliott, L., Braham, E., Bachman, H.J., **Votruba-Drzal**, E., Tamis-LeMonda, C.S., Cabrera, N. & Libertus, M.E. (2021). Measuring emerging number knowledge in toddlers. *Frontiers in Psychology.* DOI: 10.3389/fpsyg.2021.703598

23. Duong, S., Bachman, H., **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 and language abilities. *Journal of Experimental Child Psychology, 211,* DOI: 10.1016/j.jecp.2021.105213

24. Miller, P., Podvysotska, T., Betancur, L. & **Votruba-Drzal**, E. (2021) Wealth and child development: Differences in associations by family income and developmental stage**,** *RSF***:** *The Russell Sage Foundation Journal of the Social Sciences, 7,* 154 – 174. DOI: 10.7758/RSF.2021.7.3.07

25. Blatt, L. R. & **Votruba-Drzal**, E. (2021). District-level school choice and racial/ethnic test score gaps. *American Educational Research Journal, online.* DOI:10.3102/0002831221999405

26. Whitfield, K., Betancur, L: Miller, P., & **Votruba-Drzal**, E. (2021). Longitudinal links between income dynamics and young adult socioeconomic and behavioral health outcomes. *Youth and Society, online,* 1 – 30. DOI:10.1177/0044118X21996382

27. Coley, R.L., Spielvogel, B., Kruzik, C., Miller, P., Betancur, L., & **Votruba-Drzal**, E. (2021). Explaining income disparities in young children's development: The role of community contexts and family processes. *Early Childhood Research Quarterly, 55,* 295 – 311. DOI:10.4146/j.ecresq.2020.12.006

28. Betancur, L., Maldonado-Carreño, C., **Votruba-Drzal**, E. & Bernal, R. (2021). Measuring preschool quality in low- and middle-income countries: Validity of the ECERS-R in Colombia. *Early Childhood Research Quarterly, 54(1)*, 86-98. DOI: 10.1016/j.ecresq.2020.08.001

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

30. Blatt, L.R., Schunn, C. D., **Votruba-Drzal**, E., & Rottman, B. M. (2020). Variation in which key motivational and academic resources relate to academic performance disparities across introductory college courses. *International Journal of STEM Education, 7*(58). DOI: 10.1186/s40594-020-00253-0

31. **Votruba-Drzal**, E., Miller, P., Betancur, L., Spielvogel, B., Kruzik, C., Coley, R. (2020). Family and community resource and stress processes related to income disparities in school-aged children's development. *Journal of Educational Psychology.* DOI: 10.1037/edu0000589

32. Miller, P., Betancur, L., Whitfield, K. & **Votruba-Drzal** (2020). Examining links between income and behavior problems through a developmental psychopathology lens: A nationally representative study. *Development and Psychopathology.* DOI:10.1017/S0954579419001494

33. Kruzik, C., Coley, R.L., & **Votruba-Drzal**, E. (2020). Do family investments explain growing socioeconomic disparities in children's reading, math, and science achievement during school versus summer months. *Journal of Educational Psychology.* DOI: 10.1037/edu0000427

34. Henry, D. A., Betancur, L. & **Votruba-Drzal**, E. (2020). Black-White Achievement Gaps Differ by Family Socioeconomic Status from Early Childhood through Adolescence. *Journal of Educational Psychology*. DOI: 10.1037/edu0000439

35. Henry, D. A.**,** Miller, P., **Votruba-Drzal**, E., & Parr, A. K. (2019). Safe and sound? Exploring parents' perceptions of neighborhood safety at the nexus of race and socioeconomic status. In D. A. Henry, P. Miller, & E. Votruba-Drzal (Eds.) Advances in child development and behavior: Child development at the intersection of race and SES (Vol. 57, pp. 281-313). Series Editor: J. B. Benson. Cambridge, MA: Elsevier (Academic Press imprint). DOI:10.1016/bs.acdb.2019.05.001

36. Henry, D. A., Miller, P., & **Votruba-Drzal**, E. (2019). Child development at the intersection of race and SES: An Overview. In D. A. Henry, P. Miller, & E. Votruba-Drzal (Eds.) *Advances in child development and behavior: Child development at the intersection of race and SES, Vol. 57* (pp.1-25). Series Editor: J. B. Benson. Elsevier: Cambridge, MA. doi.org/10.1016/bs.acdb.2019.05.002

37. Duncan, G., Magnuson, K., Murnane, R., & **Votruba-Drzal**, E. (2019). Income Inequality and the Well-Being of American Families. *Family Relations, 68,* 313 – 325. DOI: 10.1111/fare.12364

38. Coley, R.L., Sims, J., **Votruba-Drzal**, E. & Thomson, D. (2019). The Intergenerational Transmission of Socioeconomic Inequality through School and Neighborhood Processes. *Journal of Children and Poverty, 25,* 79 – 100. doi.org/10.1080/10796126.2019.1616165.

39. Miller, P. **Votruba-Drzal**, E., & Coley, R.L. (2019). Poverty and Academic Achievement Across the Urban to Rural Landscape: Associations with Community Resources and Stressors. *The Russell Sage Foundation Journal of the Social Sciences,* 5 106-122. DOI: 10.7758/RSF.2019.5.2.06

40. Marsland, A., Gentile, D., Hinze-Crout, A., von Stauffenberg, C., Rosen, R., Tavares, A., **Votruba-Drzal**, E., Cohen, S., McQuaid, E., Ewing, L. (2019). A Randomized Pilot Trial of a School-Based Psychoeducational Intervention for Children with Asthma. *Clinical and Experimental Allergy, 49*, 591 – 602. DOI: 10.111/cea.13337

41. Heatly, M.C. & **Votruba-Drzal**, E. (2019). Developmental Precursors of Engagement and

Motivation in Fifth Grade: Linkages with Parent- and Teacher-Child Relationships. *Journal of Applied Developmental Psychology, 60,* 144 - 156. DOI:10.1016/j.appdev.2018.09.003

42. Betancur, L.A., Rottman, B.M., **Votruba-Drzal**, E., & Schunn, C. (2019). Analytical Assessment of Course Sequencing: The Case of Methodological Courses in Psychology. *Journal of Educational Psychology, 111,* 91 - 103. DOI: 10.1037/edu0000269

43. Betancur, L., **Votruba-Drzal**, E. & Schunn, C. (2018). Socioeconomic gaps in science achievement. *International Journal of STEM Education, 5:38.* DOI:*10.1186/s40594-018-0132-5*

44. Cannady, M.A., Moore, D., **Votruba-Drzal**, E., Greenwald, E., Stites, R., & Schunn, C.D. (2017). How personal, behavioral, and environmental factors predict working in STEMM vs. non-STEMM middle-skill careers. *International Journal of STEM Education, 4*(1): 22. DOI:10.1186/s40594-017-0079-y

45. Heatly, M.C. & **Votruba-Drzal**, E. (2017) Parent-child relationships and engagement in early elementary school: Mediating and interactive processes. *Developmental Psychology, 53,* 1042 – 1062. DOI:10.1037/dev0000310

46. Miller, P. & **Votruba-Drzal**, E. (2017). The role of family income dynamics in predicting trajectories of internalizing and externalizing problems. *Journal of Abnormal Child Psychology, 45,* 543 - 556. DOI:10.1007/s10802-016-0181-5.

47. Duncan, G.J., Magnuson, K., & **Votruba-Drzal**, E. (2017). Moving beyond correlation in assessing the consequences of poverty. *Annual Review of Psychology, 68*, 413 - 434. DOI:10.1146/annurev-psych-010416-044224

48. Miller, P., **Votruba-Drzal**, E. McQuiggan, M., & Shaw, A. (2017). Pre-K Classroom Economic Composition and Children's Early Academic Skills Development. *Journal of Educational Psychology, 109,* 149 – 165. DOI:10.1037/edu0000137

49. Johnson, A.D., Padilla, C.M. & **Votruba-Drzal**, E. (2016). Predictors of Public Early Care and Education Use among Children of Low-Income Immigrants. *Children and Youth Services Review, 73,* 24 – 36. DOI:10.1016/j.childyouth.2016.11.024

50. Miller, P**.**, Henry, D. A., & **Votruba-Drzal**, E. (2016). Strengthening causal inference in developmental research. *Child Development Perspectives. 10,* 275 - 280. DOI:10.1111/cdep.12202

51. Coley, R. L., Sims, J., & **Votruba-Drzal**, E. (2016). Family expenditures supporting children across income and urbanicity strata. *Children and Youth Services Review,* 70, 129-142. DOI:10.1016/j.childyouth.2016.09.017

52. Coley, R. L., **Votruba-Drzal**, E., Collins, M. & Cook, K. D. (2016*).* Comparing public, private, and informal preschool programs in a national sample of low-income children. *Early Childhood Research Quarterly*, *36,* 91-105. DOI:10.1016/j.ecresq.2015.11.002

53. **Votruba-Drzal**, E. & Miller, P. (2016). Reflections on quality and dosage of preschool and children's development. *Monographs of the Society for Research in Child Development, 81,* 100 – 113. DOI:10.1111/mono.12244

54. **Votruba-Drzal**, E., Miller, P. & Coley, R. (2016). Poverty, urbanicity, and children's development of early academic skills. *Child Development Perspectives, 10,* 3 – 9. DOI: 10.1111/cdep.12152

55. Heatly, M.C., Bachman, H., **Votruba-Drzal**, E. (2015). Developmental patterns in the associations between instructional practices and children's math trajectories in elementary school. *Journal of Applied Developmental Psychology, 41, 46 - 59*. DOI:10.3389/fpsyg.2017.01525

56. Bachman, H., **Votruba-Drzal**, E., El Nokali, N.E., 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. DOI:10.3102/0002831215594877

57. Miller, P. & **Votruba-Drzal**, E. (2015). Urbanicity moderates associations between family income and adolescent academic achievement. *Rural Sociology, 80,* 362 - 386. DOI:10.1111/ruso.12067.

58. Davis, S., **Votruba-Drzal**, E., & Silk, J. S. (2015). Trajectories of internalizing disorders from early childhood to adolescence: Associations with temperament and parenting. *Social Development, 24,* 501 - 520**.** DOI:10.1111/sode.12105

59. **Votruba-Drzal**, E., Coley, R. L., Collins, M., & Miller, P. (2015). Center-based preschool and school readiness skills of children from immigrant families. *Early Education and Development*, *26*(4), 549-573. DOI: 10.1080/10409289.2015.1000220

60. Shelleby, E., **Votruba-Drzal**, E., Shaw, D., Dishion, T.J., & Wilson, M. (2014). Income, Depression, Household Chaos, and Children's Behavioral Functioning. *Journal of Family Psychology, 28,* 936 – 946. DOI:10.1037/fam0000035

61. Miller, P**.**, **Votruba-Drzal**, E., Coley, R., & Koury, A. (2014). Patterns and predictors of infant and toddler child care use in immigrant families. *Early Childhood Research Quarterly, 29*, 484-498. DOI:10.1016/j.childyouth.2016.11.024

62. Coley, R.L., **Votruba-Drzal**, E., Collins, M. A., & Miller, P. (2014). Selection into Early Education and Care Settings: Differences by Developmental Period. *Early Childhood Research Quarterly, 29,* 319-332. DOI:10.1016/j.ecresq.2014.03.006

63. Duncan, G.J., Magnuson, K.A., & **Votruba-Drzal**, E. (2014). Boosting family income to promote child development. *Future of Children, 24,* 99 – 120. DOI:10.1353/foc.2014.0008

64. Hyde, L.W., Byrd, A.L., **Votruba-Drzal**, E., Hariri, A.R., & Manuck, S.B. (2014). Amygdala reactivity and negative emotionality: Divergent correlates of antisocial personality and psychopathy traits in a community sample. *Journal of Abnormal Psychology, 123,* 214-224. DOI:10.1037/a0035467

65. Koury, A.S. & **Votruba-Drzal,** E. (2014) School readiness of children of immigrants: Contributions of early environments. *Journal of Educational Psychology, 106,* 268 – 288. DOI:10.1037/a0034374

66. Coley, R.L., Lombardi, C.M., Sims, J., & **Votruba-Drzal**, E. (2013). Early education and care experiences and cognitive skills development. *Family Matters, 19,* 36 – 49.

67. Coley, R.L., **Votruba-Drzal**, E., Miller, P., & Koury, A. (2013). Timing, Extent, and Type of Child Care and Children's Behavior Problems and Learning Behaviors in Kindergarten, *Developmental Psychology,49,* 1859 - 1873. DOI:10.1037/a0031251

68. **Votruba-Drzal**, E., Coley, R., Koury, A.S., & Miller, P. (2013). Center-based child care and cognitive skills development: Importance of timing and household resources. *Journal of Educational Psychology, 105, 821-838.* DOI:10.1037/a0032951

69. Miller, P. & **Votruba-Drzal**, E., Setodji, C. (2013). Family Income and Early Achievement Across the Urban to Rural Continuum, *Developmental Psychology, 49,* 1452 - 1465. DOI:10.1037/a0030244

70. Miller, P. & **Votruba-Drzal**, E. (2013). Early academic skills and childhood experiences across the urban-rural continuum. *Early Childhood Research Quarterly, 28,* 234 - 248. DOI:10.1016/j.ecresq.2012.12.005

71. Miller, P. & **Votruba-Drzal**, E., & Coley, R. (2013). Predictors of early care and education type among preschool-aged children in immigrant families: The role of region of origin and characteristics of the immigrant experience. *Children and Youth Services Review, 35,* 1342 – 1355. DOI:10.1016/j.childyouth.2013.04.024

72. Tang, S., Coley, R.L. & **Votruba-Drzal**, E. (2012) Low-income families' selection of child care for their young children. *Children and Youth Services Review, 34,* 2002–2011. DOI:10.1016/j.childyouth.2012.06.012

73. Sayette, M.A., Dimoff, J.D., Levine, J.M., Moreland, R.L. & **Votruba-Drzal,** E**.** (2012). The Effects of Alcohol and Dosage-Set on Risk-Seeking Behavior in Groups and Individuals. *Psychology of Addictive Behaviors, 26,* 194 - 200. DOI:10.1037/a0023903

74. Ciccocioppo, M.M., Frieze, I.H., & **Votruba-Drzal,** E. (2011). Nonsexual and sexual exclusivity perceptions and ideals in college students' dating relationships. *Journal of Couple and Relationship Therapy, 10,* 246 -261. DOI:10.1080/15332691.2011.588096

75. Maldonado-Carreño, C. & **Votruba-Drzal,** E. (2011). Teacher-Child relationships and the development of academic and social skills during elementary school: A within and between child analysis. *Child Development,* 601 - 616. DOI:10.1111/j.1467-8624.2010.01533.x

76. Coley, R.L., Ribar, D., & **Votruba-Drzal,** E. (2011). Do children's behavior problems limit poor women's labor market success? *Journal of Marriage and Family, 73, 33 – 45.* DOI:10.1111/j.1741-3737.2010.00787.x

77. Li-Grining, C.P., **Votruba-Drzal,** E., Maldonado-Carreño, C. & Haas, K. (2010). Children's early approaches to learning and academic trajectories through fifth grade. *Developmental Psychology, 66*, 1062 - 1077. DOI:10.1037/a0020066

78. Ginaros, P.J., Manuck, S.B., Sheu, L.K., Kuan, D.H., **Votruba-Drzal**, E., Craig, A.E., & Hariri, A. R. (2010). Parental education predicts corticostriatal functionality in adulthood. *Cerebral Cortex, 21,* 896 – 910. DOI:10.1093/cercor/bhq160

79. **Votruba-Drzal,** E., Coley, R.L., Maldonado-Carreño, C., Li-Grining, C., & Chase-Lansdale, P.L. (2010). Child care and the development of behavior problems among economically disadvantaged children in middle childhood. *Child Development, 81,* 1460 - 1475. DOI:10.1111/j.1467-8624.2010.01485.x

80. El Nokali, N.E., Bachman, H. J., & **Votruba-Drzal,** E. (2010) Parent involvement and children's academic and social development in elementary school. *Child Development,* 988 - 1005. DOI:10.1111/j.1467-8624.2010.01447.x

81. Coley, R., **Votruba-Drzal,** E. Schindler, H. (2009) Fathers' and mothers' parenting predicting and responding to adolescent sexual risk behaviors. *Child Development, 80,* 808 - 827. DOI:10.1111/j.1467-8624.2009.01299.x

82. Petersen, K.L., Marsland, A.L., Flory, J., **Votruba-Drzal,** E. Muldoon, M.F., & Manuck, S.B. (2008) Community socioeconomic status is associated with circulating interleukin-6 and C-reactive protein. *Psychosomatic Medicine, 70,* 646 - 652. DOI:10.1097/PSY.0b013e31817b8ee4

83. Coley, R., **Votruba-Drzal,** E., Schindler, H. (2008) Trajectories of parenting process, and adolescent substance use: Reciprocal effects. *Journal of Abnormal Child Psychology, 36,* 613 - 625. DOI:10.1007/s10802-007-9205-5

84. **Votruba-Drzal,** E., Li-Grining, C.P., & Maldonado-Carreño, C. (2008) A developmental perspective on full-day vs. part-day kindergarten and children's academic trajectories through fifth grade. *Child Development, 79,* 957 – 978. DOI:10.1111/j.1467-8624.2008.01170.x

85. Coley, R. Lohman, B., **Votruba-Drzal,** E., Pittman, L.D. & Chase-Lansdale, P.L. (2007) Maternal functioning, time and money: The world of work and welfare. *Children and Youth Services Review*, 29 721 - 741. DOI:10.1016/j.childyouth.2006.12.003

86. Coley, R., Bachman, H.J., **Votruba-Drzal,** E., Lohman, B.J., Li-Grining, C.P. (2007). Maternal welfare and employment experiences and adolescent well-being: Do mothers' human capital characteristics matter? *Children and Youth Services Review, 29,* 193 – 215. DOI:10.1016/j.childyouth.2006.12.003

87. **Votruba-Drzal,** E. (2006). Economic disparities in middle childhood development: Does income matter? *Developmental Psychology,* 1154 - 1167. DOI:10.1037/0012-1649.42.6.1154

88. 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. DOI:10.1016/j.childyouth.2005.10.016

89. **Votruba-Drzal,** E., Coley, R. L., & Chase-Lansdale, P. L. (2004). Child care and low-income children's development: Direct and moderated effects. *Child Development, 75,* 296 – 312. DOI:10.1111/j.1467-8624.2004.00670.x

90. **Votruba-Drzal,** E. (2003). Income changes and cognitive stimulation in young children's home learning environments. *Journal of Marriage and Family, 65,* 341 - 355. DOI:10.1111/j.1741-3737.2003.00341.x

91. Chase-Lansdale, P. L., Moffitt, R., Lohman, B., Cherlin, A., Coley, R. L., Pittman, L., Roff, J., & **Votruba-Drzal,** E. (2003). Welfare reform and child well-being": Response. *Science, 301, 1325-1326.* DOI:10.1016/j.childyouth.2006.01.005

92. Chase-Lansdale, P. L., Moffitt, R., Lohman, B., Cherlin, A., Coley, R. L., Pittman, L., Roff, J., & **Votruba-Drzal,** E. (2003). Mothers' transitions from welfare to work and the well-being of preschoolers and adolescents. *Science, 299, 1548 - 1552.* DOI:10.1126/science.1076921

BOOKS. BOOK CHAPTERS. EDITED JOURNALS

93. Henry, D.A. Miller, P., & **Votruba-Drzal, E.** (Eds.) (2019). *Advances in Child Development and Behavior: Child Development at the Intersection of Race and SES* (Vol. 57). Series Editor: J. B. Benson. Elsevier: Cambridge, MA.

94. Barnett, W. S., **Votruba-Drzal**, E., Dearing, E., & Carolan, M.E. (2017). Publicly supported early care and education programs. In E. Votruba-Drzal & E. Dearing (Eds) *Handbook of Early Childhood Development Programs, Practices, and Policies*. Hoboken, NJ: Wiley & Sons.

95. **Votruba-Drzal, E.** & Dearing, E. (2017). *Handbook of Early Childhood Development Programs, Practices, and Policies: Theoretically and Empirically Supported Strategies for Promoting Young Children's Growth in the U.S.* Hoboken, NJ: John Wiley & Sons.

96. Duncan, G.J., Magnuson, K.A., & **Votruba-Drzal**, E. (2015). Socioeconomic status and child development. In M.H. Bornstein, T. Leventhal, & R. Lerner (Eds.), *Handbook of Child Psychology, Seventh Edition, Volume Three: Ecological Settings and Processes.* Hoboken, NJ: John Wiley & Sons.

97. Magnuson, K.A. & **Votruba-Drzal** E. (2009). Enduring influences of childhood poverty. In S. Danziger & M. Cancian (Eds.). *Changing Poverty Changing Policies*. (pp. 153 – 179) New York, NY: Russell Sage.

98. Bell, H., Lohman, B., & **Votruba-Drzal,** E. (2006). Through a quantitative and qualitative lens: Looking at the differential effects of domestic violence on women's welfare receipt and work participation. In J. Henrici (Ed.), *Women and U. S. Poverty.* Tucson, AZ: The University of Arizona Press.

99. Chase-Lansdale, P.L. & **Votruba-Drzal,** E. (2004). Human development and the potential for change from the perspective of multiple disciplines. In P.L. Chase-Lansdale, K. Kiernan, & R.J. Friedman (Eds.), *Human development across lives and generations: The potential for change.* New York: Cambridge University Press (pp. 343 – 366).

MANUSCRIPTS UNDER REVIEW

Blatt, L. & **Votruba-Drzal**, E. The moderating role of race/ethnicity on associations between externalizing behavior ratings and school suspensions.

Duong, S., Davis, T., Bachman, H. J., **Votruba-Drzal**, E., & Libertus, M. L. It takes two to tango: Exploring the dynamic structures of caregiver-child number talk using recurrence quantification. Manuscript under review.

Zippert, E., Miller, P., Bachman, H. J., **Votruba-Drzal**, E. & Libertus, M. L. Predicting individual

differences in preschoolers' numeracy and geometry: The role of understanding abstract relations between objects and quantities. Manuscript under review.

Hunter-Rue, D., Miller, P., Hanson, J., & **Votruba-Drzal**, E. Influences of Youth Perceptions of Household Chaos on Adolescent Externalizing and Internalizing Behaviors.

Podvysotska, T. Miller, P., Hanson, J., & **Votruba-Drzal**, E. How Family Assets and Debts Relate to Children's Achievement and Behavior Problems Across Development

INVITED TALKS/PANELIST

Votruba-Drzal, E. (November, 2020). *Parents Promoting Early Learning.* Panelist PI meeting on Early Childhood Learning in New Educational Settings: Disruptions, Transitions, and Opportunities. National Science Foundation EHR Core Research Program

Votruba-Drzal, E. (May, 2020). *Resiliency and resiliency strengthening interventions for vulnerable populations.* Technical expert for U.S. Department of Health and Human Services, Office of the Assistant Secretary for Planning and Evaluation.

Votruba-Drzal, E (February, 2020). *Income, wealth, and child development: Main effects, moderated effects, and differences by developmental stage.* Russell Sage Foundation Conference on Wealth, Inequality, and Child Development.

Votruba-Drzal, E. (April, 2019). *Early Care and Education for Children from Immigrant Families: Improving Access and Promoting Child Development.* Foundation for Child Development, Young Scholars: Children of Immigrants Webinar Series, New York, NY.

Votruba-Drzal, E. (June, 2018). *Environmental Influences on Math Learning.* Invited discussant at the 6th International Workshop on Advanced Learning Sciences (IWALS). Pittsburgh, PA.

Votruba-Drzal, E. (September, 2017). *Economic Disadvantage and Child Development in Communities Spanning the Urban to Rural Continuum.* Invited talk at the Twelfth International School on Mind, Brain and Education (ISMBE): Neuroscience of Poverty, Ettore Majorana Centre for Scientific Culture, Sicily.

Votruba-Drzal, E. (June, 2016). *Rising Income Inequality and Prevention Research.* Invited talk at the Society for Prevention Research Annual Conference, San Francisco, CA.

Votruba-Drzal, E. (March, 2015). *Causal Inference.* Invited talk at the Society for Research in Child Development Biennial Conference, Philadelphia, Pennsylvania.

Votruba-Drzal, E. (May, 2012). *Early Care and Education Experiences and School Readiness: The Importance of Developmental Timing and Household Resources*. Population Research Center, National Opinion Research Center, Center for Human Potential and Public Policy, University of Chicago

Votruba-Drzal, E. (November, 2011). *The Social and Economic Well Being of Immigrants.* Invited discussant at the Fall Research conference of the Association of Public Policy Analysis and Management, Washington, D.C.

Votruba-Drzal, E. (October, 2011). *Income and child development during the transition to school.* Steinhardt School of Culture, Education and Human Development. New York University, New York, NY.

Votruba-Drzal, E. (May, 2011). *Urbanicity and Income-Related Disparities in School Readiness: Are Low-Income Rural Children at Higher Risk for Low Academic Achievement at School Entry*. University of Kentucky Center for Poverty Research. Lexington, KY.

Votruba-Drzal, E. (February, 2011). *Academic Achievement among Children of Immigrants: A Cross-Contextual Analysis*. Eastern Sociological Society. Philadelphia, PA.

Votruba-Drzal, E. (November, 2010). *Nonparental care experiences and the development of children in poverty*. Department of Psychology, Universidad de Los Andes, Bogota Colombia.

Magnuson, K.A. & Votruba-Drzal, E. (May, 2009). *Enduring influences of child poverty*. National Poverty Center's Changing Poverty Conference. Madison, WI.

Votruba-Drzal, E. (December, 2008). *Job loss and child development*. Next Generations Meeting, Manpower Demonstration Research Corporation, New York, NY.

Votruba-Drzal, E. (October, 2006). 25th anniversary celebration of the program in Human Development and Social Policy Program at Northwestern University, Evanston, IL.

Votruba-Drzal, E. (June, 2006). *Child development and the National Longitudinal Survey of Youth*. National Poverty Center's Poverty and Child Development Data Workshop, Ann Arbor, MI.

Votruba-Drzal, E. (November, 2004 – February 2005). *Economic disparities in middle childhood development: Does income matter?* Human Development and Family Studies at Penn State University; Department of Psychology at the University of Denver; Developmental and Educational Psychology Department at Boston College; Department of Human Development and Family Studies at the University of California – Davis; Department of Public Policy at the University of North Carolina Chapel Hill; Department of Psychology at the University of Pittsburgh.

Votruba-Drzal, E. (November 2004). *Influence of child care on low-income children's cognitive and social trajectories: Main effects & subgroup differences*. Department of Psychology at Temple University; Department of Family Science at University of Maryland.

Votruba-Drzal, E. (September, 2004). Discussant Census Bureau Research Development Grants Conference: 2003 – 2004. Joint Center for Poverty Research, Northwestern University/ University of Chicago sponsored conference at U.S. Census Bureau, Suitland, MD.

CONFERENCE SYMPOSIA (Last 5 Years)

Votruba-Drzal, E. (2024). *Childhood Contextual Antecedents of Adult Cardiometabolic Health: Preliminary Findings from a Prospective Study of Men Born into Low-Income Circumstances.* Paper symposium at the 81st Annual Meeting for the American Psychosomatic Society, Brighton, UK.

Votruba-Drzal, E. (2021). Evidence of the Benefits of Early Childhood Programs on Child Development in International Contexts. Paper symposium at the Biennial Meeting of the Society for Research in Child Development, virtual conference.

Votruba-Drzal, E. (2021). More than Money: The Roles of Wealth, Income, and Other Economic Circumstances in Child Development. Paper symposium at the Biennial Meeting of the Society for Research in Child Development, virtual conference.

Votruba-Drzal, E. (2017) Chair: How Family Socioeconomic Status Shapes Children's Long-Term Development: Exploring Neurodevelopmental Pathways. Paper symposium at the Biennial Meeting of the Society for Research in Child Development, Austin, TX.

Votruba-Drzal, E. (2015) Chair: The Contribution of Non-Cognitive Factors to Math Learning. Paper symposium at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, Pennsylvania.

Votruba-Drzal, E. (2015) Chair: Place, Poverty, and Child Development. Paper symposium at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, Pennsylvania.

Votruba-Drzal, E. (2013) Chair: Race, class, culture, and the black-white achievement gap. Paper symposium at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.

Votruba-Drzal, E. (2012) Chair: *Social Service Use and Implications among Immigrant Families.* Paper symposium at Fall Research conference of the Association of Public Policy Analysis and Management, Baltimore, MD.

CONFERENCE PRESENTATIONS (Last 5 Years)

Leverett-Ptak, C., Coulanges, L., Votruba-Drzal, E., Libertus, M., & Bachman, H. (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 presented at the Annual Meeting of the American Educational Research Association (AERA), Philadelphia, PA.

Silver, A.M., Miller, P., Bachman, H.J., Libertus, M., & Votruba-Drzal, E. (2024, April). *Parent Predictors of the Home Math Environment and Associations with Toddlers' Math Skills.* In C. Msall (Chair). *Broadening our Understanding of early Math Support at Home and at School.* Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Philadelphia, PA.

Blatt, L. & Votruba-Drzal, E. (2024, April). *Links between school segregation and children's academic skills in elementary school across geographic levels.* In C. Brecklin (Chair). *Schools, Neighborhoods and the Geography of Educational Opportunity.* Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Philadelphia, PA.

Votruba-Drzal, E. & Jones, E. (2024, March). *Historical Structural Racism in the Built Environment and Physical Health in Allegheny County, Pennsylvania.* In M. Stanton (Chair). *Racialized Stress & Biopsychosocial Health.* [Symposium]. Paper presented at the 81st Annual Meeting for the American Psychosomatic Society, Brighton, UK.

Votruba-Drzal, E. & Jones, E. (2024, March). *Childhood Socioeconomic Circumstances at the Family and Neighborhood Levels in Relation to Cardiovascular Health in adulthood.* In E.Votruba-Drzal(Chair).*Childhood Contextual Antecedents of Adult Cardiometabolic Health: Preliminary Findings from a Prospective Study of Men Born into Low-Income Circumstances.* [Symposium]. Paper presented at the 81st Annual Meeting for the American Psychosomatic Society, Brighton, UK.

Ptak, C., Miller, P., Hanson, J., Votruba-Drzal, E. (2023, March). *The Role of Fluctuations in Monthly Economic Circumstances on Caregiver Mental Health.* Poster presented at the Society for Research in Child Development (SRCD) Biennial Meeting, Salt Lake City, UT.

Podvysotska, T., Miller, P., Hanson, J., & Votruba-Drzal, E. (2023, March). *Assets & Debts and Child Development: Main Effects and Developmental Differences.* Paper presented at the Society for Research in Child Development (SRCD) Biennial Meeting, Salt Lake City, UT.

Miller, P., Spielvogel, B., Coley, R. L., Blatt, L., Betancur Cortés, L., & Votruba-Drzal, E (2023, April). *Associations between neighborhood characteristics and elementary school students' academic and executive functioning skills*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.

Blatt, L. & Votruba-Drzal, E (2023, March). *Associations between district-level school segregation and children's proximal social development in elementary school*. Poster presented at the Society for Research in Child Development (SRCD) Biennial Meeting, Salt Lake City, UT.

Hunter-Rue, D.S., Miller, P., Hanson, J., & Votruba-Drzal, E., (2023, March) The Influence of Youth Perceptions of Household Chaos on Externalizing and Internalizing Behaviors. In D.S. Hunter-Rue (Chair). *Home Instability, Structure & Interactions: Their Role in Predicting Adolescent Mental Health*. [Symposium]. Society for Research in Child Development, Salt Lake City, Utah.

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 Society for Research in Child Development (SRCD) Biennial Meeting, Salt Lake City, UT.

Coulanges, L., Bachman, H. J., Libertus, M., Votruba-Drzal, E. (2023, March). Examining Predictors of Young Children's Screen Time during COVID-19. *Promoting Positive Media Use Across Development.* Flash talk symposium Presented at the Society for Research in Child Development (SRCD) Biennial Meeting, Salt Lake City, UT.

Carvalho Pereira, J. M., Elliott, L., Duong, S., Kothari, D., Lopiccolo, D., Bachman, H. J., Votruba-Drzal, E., & Libertus, M. E. (2023, March). Are Some Math Talk Types More/Less Related to Concurrent Math Skills? Examining Preschoolers' Quantifier Talk. Poster presented at the 2023 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. E. (2023, March). A Novel Method for Directly Measuring Toddlers' Self-Regulation Skills Remotely: The Find Bear Task. Poster presented at 2023 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. E. (2023, March). "Beneath counts: Exploring the dynamics of caregiver-child conversations about numbers

and math in semi-structured activities." Poster presented at Society for Research in Child Development Biennial Meeting, Salt Lake City, UT.

Duong, S., Davis, T., Votruba-Drzal, E., Bachman, H. J., & Libertus, M. E. (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]. Society for Research in Child Development Biennial Meeting, Salt Lake City, UT.

Fox, D., Votruba-Drzal, E., Bachman, H. J., & Libertus, M. E. (2023, March). Assessing Individual Differences in Toddlers' Spatial Cognition Using a Modified Test of Spatial Assembly (TOSA). Poster presented at the 2023 Biennial Meeting of the Society for Research in Child Development, Salt Lake City, Utah.

Coulanges, L., Bachman, H.J., Libertus, M.E., & Votruba, E. (2021, April). *Educational screen time exposure and children's literacy and numeracy skills.* Poster presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

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

Betancur, L., Miller, P., & Votruba-Drzal, E. (2021, April). *Long-term associations between early childhood education and academic achievement in low-and middle-income countries.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Podvysotska, T., Miller, P., Betancur, L. & Votruba-Drzal, E. (2021, April). *How multiple dimensions of family wealth interface with income to shape children's academic and behavioral outcomes.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

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

Silver, A., Braham, E, Elliott, L., Tamis-Lemonda, C. S., Cabrera, N, Bachman, H.J. Votruba-Drzal, E., Libertus, M.E. (2021, April). *Measuring emerging number knowledge in toddlers.* Poster presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Betancur, L. & Votruba-Drzal, E. (2021, April). *The experiences of child poverty in low-and middle-income countries: Community mechanisms of urbanicity and academic achievement.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Libertus, M.E., 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 Biennial Conference of the Society for Research in Child Development, virtual conference.

Henry, D.A., Blatt, L.R., Betancur, L., Votruba-Drzal, E. (2021, April). *Disparate impact: Using an intersectional lens to explore how race/ethnicity and family socioeconomic status intersect to shape academic development among children of color.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Coley, R.L., Miller, P., Spielvogel, B., Betancur, L. Blatt, L.R. & Votruba-Drzal, E. (2021, April). *Using within and across-neighborhood change to assess how neighborhood conditions affect children's achievement.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Duong, S., Bachman, H., Votruba-Drzal, E. & Libertus, M.E. (2021, April). *Parents' sensitivity to child-level factors and the relation to parental questioning during dyadic interactions.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Hunter, D. S., Votruba-Drzal, E. Miller, P., & Hanson, J. (2021, April). *Adaptation of the family stress model: Youth perceptions of financial hardship and stress.* Poster presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Blatt, L. R. & Votruba-Drzal, E. (2021, April). *The moderating role of race/ethnicity on associations between externalizing problem behaviors and school suspensions.* Poster presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Jamal-Orozco, N., Votruba-Drzal, E., Miller, P., Hanson, J., Hunter, D.S. & Whitfield, K. (2021, April). *Seeing eye to eye? Parent and youth social status agreement and youth psychosocial development.* Poster presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Duong, S., Bachman, H., Votruba-Drzal, E. & Libertus, M.E. (2021, April). *Minute-by-minute variations in parental number talk and their implications for coding parent-child interactions*. Poster presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Montue, T, Elliott, L., Heywood, N., Podvysotska, T., Miller, P., Bachman, H.J., Libertus, M.E., & Votruba-Drzal, E. (2021, April). *Differential experiences of financial strain in response to COVID-19.* Poster presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Miller, P., Hunter, D., Jamal-Orozco, N., Hanson, J., & Votruba-Drzal, E. (2021, April) *Month-to-month income volatility and adolescent problem behaviors: Extending the family stress model to include youth perspectives.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Kruzik, C., Coley, R.L., Henry, D.A., Spielvogel, B., Betancur, L. & Votruba-Drzal, E. (2021, April). *Socioeconomic factors and early cognitive skills: Understanding differential patterns by race, ethnicity, and immigration status.* Paper presented at the Biennial Conference of the Society for Research in Child Development, virtual conference.

Whitfield, K. & Votruba-Drzal, E. (2019, May). *Unmarried father involvement, coresidence & child externalizing behavior: Longitudinal mediation by father-child relationship closeness.* Poster presented at the 31st annual meeting of the Association for Psychological Science, Washington, DC.

Blatt, L.R. & Votruba-Drzal, E. (2019, April). *The association between school choice and district-level race/ethnic achievement disparities.* Paper presented at the annual meeting of the American Education Research Association, Toronto, ON.

Betancur, L. & Votruba-Drzal, E. (March, 2019). *Long-term associations of attending early childhood education in low- and middle-income countries and vocabulary skills.* Paper presented at the Biennial Conference of the Society for Research in Child Development, Baltimore, MD.

Levine Coley, R. Spielvogel, B., Kruzik, C., Miller, P., Votruba-Drzal, E. (March, 2019) *Family and community drivers of economic disparities in school readiness skills.* Paper presented at the Biennial Conference of the Society for Research in Child Development, Baltimore, MD.

SPONSORED RESEARCH PROJECTS

External Funding

National Institutes of Health 05/12/2023 – 02/29/2028
A Different Type of Economic Fragility: Wealth and Adolescent Problem Behavior
(1R01HD110423)
Total costs: $2,723,902
Title: Co-Investigator
Other investigators: Portia Miller, Christina Gibson-Davis, Jamie Hanson

National Science Foundation 9/1/2019 – 8/31/2024
Early Emergence of Socioeconomic Disparities in Mathematical Understanding
(DRL-2204090) – Postdoc Supplement
Total costs: $121,061
Project title: Co-Principal Investigator
Other investigators: Melissa Libertus, Heather Bachman

National Institutes of Health 7/1/2020 – 6/30/2022
Digital media use and early math learning
(3R01HD093689-01A1)
Total costs: $151,830
Project title: Co-Principal Investigator
Other investigators: Linsah Coulanges, Heather Bachman, Melissa Libertus

National Institutes of Health 1/15/2022 – 12/31/2023
Father Closeness in Early Childhood as Predictor of Adult Health Outcomes
(3R01HL152444-01A1S1)
Total costs: $107,248
Project title: Co-Principal Investigator
Other investigators: Kendra Whitfield, Anna Marsland, Daniel Shaw

National Institutes of Health 8/1/2021 – 7/31/2025
Childhood Antecedents of Adult Cardiometabolic Health: A Prospective Study of Low-Income Men
(R01 HL152444)
Total costs: $3,801,351
Project title: Co-Principal Investigator (17%)
Other investigators: Anna Marsland, Daniel Shaw

National Institutes of Health 7/1/2020 - 6/30/2023

Biobehavioral Study of Cardiovascular Disease
(P01HL04962-23)
Total cost: $2,303,344
Project title: Co-Investigator (7%)
Other investigators: Peter Gianaros

National Science Foundation 9/1/2019 – 8/31/2024
Early Emergence of Socioeconomic Disparities in Mathematical Understanding
(DRL-1920545)
Total costs: $2,108,317
Project title: Principal Investigator (17%)
Other investigators: Melissa Libertus, Heather Bachman

National Institutes of Health 5/1/2019 – 4/31/2024
How Parents Support Young Children's Math Thinking Across SES
(R01 HD093689)
Total costs: $3,095,322
Project title: Co-Investigator (17%)
Other investigators: Melissa Libertus, Heather Bachman

National Institutes of Health 4/1/2018 - 3/31/2024
Walking Exploration and Language in High/Low Risk Infants
(R01 DC016557)
Total costs: $524,293
Project title: Co-Investigator (4%)
Other investigators: Jana Iverson

National Institutes of Health 7/20/2017 – 6/30/2022
Metabolic and Inflammatory Pathways of Midlife Neurocognitive Disparities
(1R01DK110041)
Total costs: $449,857
Project title: Co-Investigator (5%)
Other investigators: Anna Marsland

National Science Foundation 7/1/2017 – 6/30/2019
Collaborative Research: Resource and Stress Processes Underlying Economic Disparities in Early School Success
(DS-1650612)
Total costs: $307,398
Project title: Principal Investigator (14.6%)
Other investigators: Rebekah Levine Coley

National Institutes of Health 4/1/2017 - 3/31/2019
Income Dynamics and Behavioral Trajectories across Childhood and Adolescence: Implications for Functioning into Adulthood
(R03 HD091610)
Total costs: $155,689
Project title: Principal Investigator (8.3%)

National Science Foundation 9/1/2015 – 8/30/2020
Build, Understand, and Tune Interventions that Cumulate to Real Impact

Total costs: $1,795,922
Project title: Co-Investigator (8.3%)
Other investigators: Tim Nokes-Malach

National Science Foundation 7/1/2015 – 6/30/2016
Investigating Motivation and Transfer in Physical Science through Preparation for Future Learning Instruction
Total costs: $593,278
Project title: Co-Investigator (2%)
Other investigators: Tim Nokes-Malach

National Institutes of Health 5/1/2013 – 4/31/2018
*Reaching, Posture, Object Exploration, and Communication in High- and Low-Risk Infants (*R01 HD073255*)*
Total costs: $2,452,408
Project title: Co-Investigator (4% Effort)
Other investigators: PI: J. Iverson

Spencer Foundation 6/1/2013 – 5/31/2016
Disparities in School Readiness Skills and the Role of Early Care and Education
Total costs: $355,724
Project title: Co-PI
Other investigators: Co-PI R. Levine Coley

National Institutes of Health 5/1/2012 – 4/30/2015
A Pilot Stress Management Intervention for High Risk Children with Asthma
(11R34HL107613)
Total costs: $649,319
Project title: Co-Investigator (5% Effort Final Year)
Other investigators: PI: A. Marsland

Gordon and Betty Moore Foundation 2/1/2011 – 1/31/2013
Center for the Study of Activated Science Learners
Total costs: $3,999,646
Project title: Co-Investigator (10%)
Other investigators: PIs K. Crowley, R. Dorph, and P. Shields

Foundation for Child Development 7/1/2010 – 6/30/2012

Early Education and Care Experiences and School Readiness of Children of Immigrants
Total costs: $150,000
Project title: Principal Investigator
Other investigators: None

Center for Poverty Research 9/1/2010 – 5/31/2011
Urbanicity and Income-Related Disparities in School Readiness: Are Low-Income Rural Children at Higher Risk for Low Academic Achievement at School Entry
Total costs: $20,000
Project title: Principal Investigator
Other investigators: None

National Institutes of Health 2/15/2009 – 1/31/2014
Health Promotion in Early Adolescence: Sleep Activity and Emotion Regulation (1R01HD057893-01)
Total costs: $2,966,523)
Project title: Co-Investigator (10% Effort)
Other investigators: PI: R. Dahl, Co-I D. Shaw

National Institutes of Health 9/1/2008 – 8/31/2010
Child Care Resources in Low-Income Communities: Implications for the Well-Being of Mothers and Children (1R03HD057294)
Total costs: $162,587
Project title: Principal Investigator
Other investigators: Co-PI: R. Coley

National Institutes of Health 7/31/2008 – 6/30/2010
Early Income Disparities and Academic Trajectories: An Analysis across Contexts (1R03HD056019)
Total costs: $148,500
Project title: Principal Investigator
Other investigators: Co-PI: H. Bachman

Spencer Foundation 8/1/2006 – 7/31/2007
Cross-Contextual Sources of Economic Disparities in Early Academic Trajectories
Total costs: $39,722
Project title: Principal Investigator
Other investigators: Co-PI H. Bachman

Spencer Foundation 6/1/2003 – 5/31/2004
Starting School on Unequal Ground: The Environmental Origins of Economic Disparities in School Readiness and Early Academic Achievement
Total costs: $20,000
Project title: Principal Investigator
Other investigators: None

Internal Funding
University of Pittsburgh 2/1/2023 – 12/31/2024
Linking Initiatives for Child Thriving
Total costs: $400,000
Project title: Co-Principal Investigator
Other Investigators: Shannon Wanless, James Huguley, Daniel Shaw

Learning Research and Development Center 5/1/2017 - 6/30/2021
Income Dynamics and Adolescent Development: Understanding Behavioral and Academic Disparities Through Dense Sampling of Income, Parenting, and Perceptions of Financial Stress
Total Costs: $145,405
Project title: Co-Principal Investigator
Other investigators: Jamie Hanson, Portia Miller

Learning Research and Development Center 7/1/2017 - 6/30/2019
How Low- and High-SES Parents Support Young Children's Mathematical Thinking
Total Costs: $149,962
Project title: Co-Investigator

Other investigators: Melissa Libertus & Heather Bachman

University Center for Social and Urban Research 7/1/2015 – 10/31/2017
Steven Manners Faculty Development Award
Intersection of Race and Socioeconomic Status in Early Family Life
Total costs: $10,000
Project title: Principal Investigator
Other investigators: None

Office of Research, University of Pittsburgh 7/31/2011 – 7/31/2013
Early Care and Education Experience among U.S Children: The Roles of Poverty and Ethnicity
Total costs: $15,999
Project title: Principal Investigator
Other investigators: None

Office of Research, University of Pittsburgh 7/31/2008 – 6/30/2010
Child Care Resources in Low-Income Communities: Implications for the Well-Being of Mothers and Children
Total costs: $12,547 (no indirect costs)
Project title: Principal Investigator
Other investigators: None

Office of Research, University of Pittsburgh 7/1/2006 – 6/30/2008
Cross-Contextual Sources of Economic Disparities in Early Academic Trajectories
Total costs: $11,572 (no indirect costs)
Project title: Principal Investigator
Other investigators: H. Bachman

COURSES TAUGHT

PSY1312 Undergraduate Course Child Development and Social Policy
PSY 2005 Statistics 1: Introduction to General Linear Model
PSY2010 Statistics 2: Applied Regression Analysis
PSY2376: Graduate Seminar Child Development and Public Policy

MENTORING

Post-Doctoral Trainees

Emily Jones	2022 - current
Erica Zippert	2022 – 2023
Leanne Elliott	2019 - 2022
Portia Miller	2015 - 2017

Graduate (Ph.D.) Students

Chelsea Ptak	2021 - present
Daniesha Hunter	2020 - present
Nabila Jamal Orozco	2019 - 2023
Tamara Podvysotskaya	2018 - present
Lorraine Blatt	2017 - present
Kendra Whitfield	2016 - 2020
Laura Betancur	2014 - 2020
Daphne Henry	2011 - 2018

Portia Miller, Department of Psychology	2009 - 2015
Abel Koury, Department of Psychology	2008 - 2012
Melissa Castle, Department of Psychology	2008 – 2015
Stephanie Davis, Department of Psychology	2006 - 2008
Carolina Maldonado-Carreño, School of Education	2006 - 2008

Undergraduate & Post-Baccalaureate Students
Shaughney Richardson, Psychology Research Assistant, 2023
Darin Fields, Department of Psychology, Honor's Thesis, 2023
Siyan He, Department of Psychology, Honor's Thesis, 2022
Vish Juvvadi, Department of Psychology, Honor's Thesis, 2022
Chelsea Carver, Department of Psychology, Honor's Thesis, 2021
Uma Balaji, Department of Psychology Honor's Thesis, 2020
Natalie Heywood, University of Cincinnati, Hot Metal Bridge Co-Mentor, 2019
Hope Melendez, SUNY Geneseo, LRDC Internship Mentor, 2019
Elizabeth Andrews, University of North Carolina- Chapel Hill, LRDC Internship Mentor, 2018
Leyana Clarice Johnson, Georgia State University, SUPRE Student Mentor, 2018
Tanesha Johnson, Hampton University, Hot Metal Bridge Fellow Mentor, 2017
Klaudia Glogowska, University of Pennsylvania SUPRE Student Mentor, 2017
Franchesca Bianconi, Department of Psychology, Honors Thesis Committee Chair, 2017
Camille Greene, Department of Psychology, Directed Research, 2016, 2017
Amenia Coleman, Department of Psychology, Directed Research 2015, 2016
Brandy Ashley, Department of Psychology, Directed Research 2015, 2016
Camille Green, Department of Psychology, Directed Research 2015, 2016
Kaity Mumma, Department of Psychology, Directed Research, 2014, 2015
Cassandra Chew, Department of Psychology, Honors Thesis Committee Chair, 2014
Meghan McQuiggan, Department of Psychology, Directed Research, 2014
Ibrahima Balde, Department of Psychology, Directed Research, 2014
Rachel Safirstein, Department of Psychology, Undergraduate Teaching Assistant, 2011
Laura Guilani, Department of Psychology, Undergraduate Teaching Assistant, 2011
Keely Jones, Department of Psychology, Undergraduate Teaching Assistant, 2011
Daphne Henry, Department of Psychology, Hot Metal Bridge Mentor, 2010
Agatha Kiecun, Department of Psychology, Honors Thesis Committee Chair, 2010
Elizabeth Palathra, Department of Psychology, Directed Research, 2010
Melissa Eells, Department of Psychology, Undergraduate Teaching Assistant & Honors Thesis Committee Member, 2010
Liz Cook, Department of Psychology, Undergraduate Teaching Assistant, spring 2010
Ashley Dominic, Department of Psychology, Undergraduate Teaching Assistant & Honors Thesis Committee, 2009
Leighann Starkey, Department of Psychology, Undergraduate Teaching Assistant & Honors Thesis Committee Member, 2009
Maryam Khatami, Department of Psychology, Honors Thesis Committee Member, 2008
Jessica Lugo, Department of Psychology, Directed Research, 2008

SERVICE ON STUDENT COMMITTEES

Ph.D. Committees (Completion Date)
Linsah Coulanges, Department of Psychology (in process)
Joshua Schneider, Department of Psychology (2003)
Annie Maheux, Department of Psychology (2023)
Monica Navarro, Learning Sciences and Policy, School of Education (2020)
Kristina Dickman, Department of Psychology (2020)

Rafael Quintana, Learning Sciences and Policy, School of Education (2020)
Katherine Hails, Department of Psychology (2020)
Eben Witherspoon, Learning Sciences and Policy, School of Education (2019)
Kimberly Lockwood, Department of Psychology (2019)
Leanne Elliott, Department of Psychology (2019)
Paul Scott, Department of Psychology in Education, School of Education (2017)
Jesse Drummond, Department of Psychology (2017)
Whitney Waugh, Department of Psychology (2016)
Abel Koury, Department of Psychology (2016)
Elizabeth Shelleby, Department of Psychology (2015)
Lauretta Brennan, Department of Psychology (2015)
Diana Whelan, Department of Psychology (2013)
Joshua Fetterman, Department of Psychology (2012)
Meghan Parlade, Department of Psychology (2012)
Melinda Ciccocioppo, Department of Psychology (2012)
Susan Gillo, Department of Psychology (2011)
Anna Craig, Department of Psychology (2011)
Aric Prather, Department of Psychology (2010)
Jennifer Phillips, Department of Psychology (2010)
Nermeen El Nokali, Department of Psychology in Education, School of Education (2011)
Hsiang-Yeh Ho, Department of Psychology in Education, School of Education (2011)
Erin Koterba, Department of Psychology (2010)
Sybil Streeter, Department of Psychology (2009)
Roli Mohan, Department of Psychology in Education, School of Education (2009)
Lauren Terhorst, Department of Psychology in Education, School of Education (2007)

Masters Committees (Completion Date)
Danielle Fox (2021)
Luci Dolcini-Catania (2020)
Kristina Dickman, Department of Psychology (2020)
Shirley Duong, Department of Psychology (2020)
Darcy Smith, Department of Psychology (2020)
Alex Silver, Department of Psychology (2019)
Brenden Tervo-Clemmens, Department of Psychology (2017)
Leanne Keller, Department of Psychology (2015)
Catharine Fairbairn, Department of Psychology (2011)
Lauretta Brennan, Department of Psychology (2010)
Melinda Ciccocioppo, Department of Psychology (2008)
Johana Rosas, Department of Psychology (2007)

Specialty Paper Committees (Completion Date)
Linsah Coulanges, Department of Psychology, Specialty Paper (2023)
Rafael Quintana, Learning Sciences and Policy, School of Education, Specialty Paper (2019)
Leanne Elliott, Department of Psychology, Specialty Paper (2016)
Jesse Drummond, Department of Psychology, Specialty Paper (2015)
Elizabeth Shelleby, Department of Psychology, Specialty Paper (2011)
Lauretta Brennan, Department of Psychology, Specialty Paper (2011)
Man Yu Li, Department of Psychology, Individualize Program Mentoring Committee (2010)
Melinda Ciccocioppo, Department of Psychology, Specialty Paper (2009)
Emily Merz, Department of Psychology, Specialty Paper (2009)

UNIVERSITY AND DEPARTMENTAL SERVICE

Chair, Developmental Psychology Program (2022 – present)
Hot Metal Bridge Program Steering Committee (2023 – present)
Chair, Department of Psychology Diversity Initiatives (2015 - 2022)
Co-Chair, Department of Psychology Equity, Inclusion, and Community Committee (2014 - 2022)
Co-Chair, Faculty Book Club PEIC Committee (2019 – 2020)
Member of Diversity Committee LRDC (2018 – current)
Chair, LRDC/ Psychology Race/Ethnicity and development Search Committee (2018 – 2019; 2019 - 2020)
Chair, Quantitative Search Committee (2011-2012, 2012 - 2013)
Member, Diversity Search Committee (2010 – 2011)
Statistical Consultant, Department of Psychology (2005 – 2018)
Colloquium Committee Member (2005-2010, 2013, 2014, 2015)
Member Student Diversity Committee (2007 – present)
Mellon Fellowship Review Committee Member (2007, 2009, 2014)
Member, Human Genetics Search Committee (2007-2008)
Tim Post Award Review Committee Member (2007)
Chair of the Developmental Research Methods Course Committee (2005 – 2006)

OTHER PROFESSIONAL SERVICE

Mentoring

Steering Committee Hot Metal Bridge Program, Dietrich School, 2023
Director of the Hot Metal Bridge Program, Department of Psychology (2015 – 2019)
Co-Director of VIPitt Recruitment Weekend for Underrepresented Students (2016, 2017)
Faculty Mentor Hot Metal Bridge Program (2010 – 2011; 2017 – 2018, 2019 - 2020)
Senior Mentor, Frances Degen Horowitz Millennium Scholars Program

Editorial Boards

Child Development (2008 – 2014)
Developmental Psychology (2008-2014)

Ad-hoc Manuscript Reviewer

American Economic Review
American Educational Research Journal
Child Development
Demography
Developmental Psychology
Early Childhood Research Quarterly
Education Evaluation and Policy Analysis
Elementary School Journal
European Journal of Developmental Psychology
Infancy
Parenting
Pediatrics
Population Research and Policy Review
Prevention Science
Journal of Applied Developmental Psychology
Journal of Educational Psychology
Journal of Health and Social Behavior
Journal of Marriage and Family
Journal of Policy Analysis and Management

Monographs for the Society for Research in Child Development
Review of Educational Research
Social Science Research
Sociological Quarterly

Ad-hoc Book Proposal/Manuscript Reviewer
Oxford University Press

Grant Reviewing
Ad Hoc Reviewer, National Institutes of Health, Social Science and Population Studies Panel (2023)
The Sao Paulo Research Foundation (2021)
Spencer Foundation Large Grant Review Panel Member (2019 - 2020)
National Science Foundation, Developmental Sciences Program, College of Reviews (2017 – current)
National Institutes of Health, NICHD, Populations Science Subcommittee Panel Member (2017 - 2021)
Spencer Foundation Small Grant Review Panel Member (2015 – 2018)
U.S. Department of Health and Human Services, Health Services Administration's Maternal and Child Health Grant Panel (2014)
National Science Foundation, Graduate Fellowship Reviewer (2014)
National Institutes of Health, NICHD, Ad Hoc Reviewer (2010,2011)
National Science Foundation, Ad Hoc Reviewer (2010)

Scientific Conference Submission Reviewing
Society for Research on Educational Effectiveness (2013)
Society for Research in Child Development (2008, 2010, 2012, 2014, 2016)

Other Professional Service
Member of the State of Pennsylvania's Office of Child Development and Early Learning Research Council 2016 - current

Professional Affiliations
Member, American Psychosomatic Society
Member, Association for Public Policy Analysis and Management
Member, Population Association of America
Member, Society for Research in Child Development