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EDUCATION

UNIVERSITY OF PITTSBURGH, Ph.D. Psychology
School of Arts and Sciences, Pittsburgh, Pennsylvania, 2014

UNIVERSITY OF PITTSBURGH, J.D., *magna cum laude*
School of Law, Pittsburgh, Pennsylvania, 2005

UNIVERSITY OF PITTSBURGH, B.S. Psychology, *magna cum laude*
School of Arts and Sciences, Pittsburgh, Pennsylvania, 2002

HONORS & AWARDS

Andrew Mellon Predoctoral Fellowship
National Science Fellowship Graduate Research Fellowship Program – Honorable Mention
SRCF Student Travel Award
Arts and Sciences Graduate Fellowship
School of Law Dean's Scholarship
Zeder Memorial Scholarship
Managing Editor – University of Pittsburgh Law Review
Order of the Coif
Moot Court Board
Psi Chi National Psychology Honor Society
Golden Key International Honour Society

PROFESSIONAL EXPERIENCE

UNIVERSITY OF PITTSBURGH, LEARNING RESEARCH & DEVELOPMENT CENTER, Pittsburgh, PA
Research Associate, January 2018 to present

UNIVERSITY OF PITTSBURGH, DEPARTMENT OF PSYCHOLOGY, Pittsburgh, PA
Postdoctoral Scholar, January 2015 to December 2017

JONES DAY, Pittsburgh, PA
Associate, February 2008 to May 2009

COHEN & GRIGSBY, P.C., Pittsburgh, PA
Associate, September 2005 to January 2008

PUBLICATIONS

Miller, P., Betancur, L., Coulanges, L., Kammerzell, J., Libertus, M., Bachman, H., & 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.

Miller, P., Blatt, L., Barry, K. Hunter, D., Jamal-Orozco, N. Votruba-Drzal, E. & Hanson, J. Family Income, Hardship, and Adolescent Behavioral Outcomes: Between- and Within-Family Associations (*under review*).

Miller, P., Coley, R. L., Blatt, L., Spielvogel, B., & Votruba-Drzal, E. Examining Associations Between Neighborhood Characteristics and Achievement and Executive Functioning Skills Using Longitudinal Data on a National Cohort of Elementary School Students (*under review*).

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*, 69, 101779.

Gianaros, P., **Miller, P.**, Manuck, S. B., Kuan, D. C-H., Rosso, A. L., Votruba-Drza, E., & Marsland, A. L. Beyond Neighborhood Disadvantage: Local Resources, Greenspace, Pollution, and Crime as Residential Community Correlates of Cardiovascular Risk and Brain Morphology in Midlife Adults (*invited revision*).

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

Bachman, H., **Miller, P.**, Elliott, L., Duong, S., Libertus, M., & Votruba-Drzal, E. (in press). 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*.

Miller, P., Whitfield, K., Betancur, L., & Votruba-Drzal, E. (2021). Income dynamics and behavior problems in early childhood, middle childhood, and the transition to adolescence. *Journal of Applied Developmental Psychology*, 77, 101345.

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(3), 154-174.

Whitfield, K., **Miller, P.**, Betancur, L., & Votruba-Drzal, E. (2021). Longitudinal Links Between Income Dynamics and Young Adult Human Capital & Behavioral Health Outcomes. *Youth & Society*, 53(7), 1181-1210.

Coley, R. L., Spielvogel, B., Kruzik, C. Votruba-Drzal, E., **Miller, P.**, & Betancur, L. (2021). Explaining Income Disparities in Young Children's Development: The Role of Community Contexts and Family Processes. *Early Childhood Research Quarterly*, 55, 295-311.

Votruba-Drzal, E., **Miller, P.**, Betancur, L., Spielvogel, B., Kruzik, C. & Coley, R. L. (2020). Family and Community Resource and Stress Processes Related to Income Disparities in School-Aged Children's Development. *Journal of Educational Psychology*. <https://doi.org/10.1037/edu0000589>

Miller, P., Betancur, L., Whitfield, K., & Votruba-Drzal, E. (2020). Examining income dynamics and externalizing and internalizing trajectories through a developmental

psychopathology lens: A nationally representative study. *Development and Psychopathology*, 24, 1-17.

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

Henry, D. A., **Miller, P.**, & Votruba-Drzal, E. (2019). Complex inequality: How race and socioeconomic status jointly configure children's neighborhood contexts. 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. Elsevier: Cambridge, MA.

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. *RSF: The Russell Sage Foundation Journal of Social Sciences*, 49(8).

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(3), 543-556.

Miller, P., Henry, D., & Votruba-Drzal, E. (2017). Strengthening causal inference in developmental research. *Child Development Perspectives*, 10(4), 275-280.

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(2), 149-165.

Votruba-Drzal, E., **Miller, P.** & Coley, R. L. (2016). Poverty, Urbanicity, and Children's Development of Early Academic Skills. *Child Development Perspectives*, 10(1), 3-9.

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(2), 100-113.

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

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.

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.

Levine-Coley, R.L., Votruba-Drzal, E., Collins, M., & **Miller, P.** (2014). Selection into early education and care settings: Differences by developmental status. *Early Childhood Research Quarterly, 29*, 313-332.

Miller, P. & Votruba-Drzal, E. (2013). Early academic skills and childhood experiences across the urban-rural continuum. *Early Childhood Research Quarterly, 28*, 234-248.

Miller, P., Votruba-Drzal, E., & Setodji, C. M. (2013). Family income and early achievement across the urban-rural continuum. *Developmental Psychology, 49*, 1452-1465.

Miller, P., Votruba-Drzal, E., Coley, R. (2013). Predictors of preschool attendance among immigrant families: The role of region of origin and characteristics of the immigrant experience. *Children and Youth Services Review, 35*, 1342-1355.

Coley, R. L., Votruba-Drzal, E., **Miller, P.**, & Koury, A. (2013). Timing, type, and extent of child care and the development of problem and promotive behaviors during early childhood. *Developmental Psychology, 49*, 1859-1873.

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

PROFESSIONAL CONFERENCE PRESENTATIONS

Levine Coley, R. Spielvogel, B., Kruzik, C., **Miller, P.**, Votruba-Drzal, E. (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.

Miller, P., Votruba-Drzal, E., Whitfield, K. (October, 2018). *Understanding links between income and behavioral trajectories from early childhood through adolescence*. Poster presented at the Conference on the Use of Secondary and Open Source Data in Developmental Science, Phoenix, AZ.

Votruba-Drzal, E., Levine Coley, R., **Miller, P.**, & Spielvogel, B. (2018). *Community characteristics help explain income gaps in achievement*. Paper presented at the Conference on the Use of Secondary and Open Source Data in Developmental Science, Phoenix, AZ.

Miller, P., Votruba-Drzal, E., Levine Coley, R., & Spielvogel, B. (2018). *Using national survey data, administrative data, and GIS to determine community boundaries across cities, suburbs, and rural areas*. Paper presented at the Conference on the Use of Secondary and Open Source Data in Developmental Science, Phoenix, AZ.

Miller, P., Coley, R.L. & Votruba-Drzal, E. (2017). *Community Characteristics Explain Differences in Low-Income Children's Achievement across Urbanicity*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Austin, TX.

Miller, P. & Votruba-Drzal, E. (2015). Air Pollution and Socioeconomic Disparities in Child Development. In P. Miller (Chair) Environmental Stress, Economic Disadvantage, and their links to Child and Family Functioning. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, Pennsylvania.

Miller, P. & Votruba-Drzal, E. (2015). Differences in Income Gaps in Achievement and Behavioral Trajectories Across the Urban-Rural Continuum. In E. Votruba-Drzal (Chair) Place, Poverty, and Child Development. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, Pennsylvania.

Miller, P. & Votruba-Drzal, E. (2014). Pollution and Low-Income Children's Development Across Urban, Suburban, and Rural Communities. 2014 National Training Conference on the Toxics Release Inventory (TRI) and Environmental Conditions in Communities, Arlington, Virginia.

Miller, P. & Votruba-Drzal, E. (2013). Pre-K Classroom Economic Composition and Children's Early Academic Skills Development. In P. Miller (Chair) Peer Effects in Early Childhood. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, Washington.

Votruba-Drzal, E., Coley, R. L., Collins, M., & **Miller, P.** (2013). Preschool and the School Readiness Gap Among Children from Immigrant Families. In T. Leventhal (Chair) Contexts of Early Learning for Immigrant Children. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, Washington.

Coley, R.L., Collins, M., Votruba-Drzal, E., **Miller, P.** (2013). Developmental Differences in Selection into Early Education Programs. In L. Sosinsky (Chair) Parents' Child Care Decision-making and Selection: Proximal and Distal Contributors to the Process and Choice. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, Washington.

Henry, D., **Miller, P.**, & Votruba-Drzal, E. (2013). Race, Class, and Parental Involvement in Education at School Entry. In E. Pomerantz (Chair) New Directions in Research on Parents' Involvement in Children's Education. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, Washington.

Miller, P., Votruba-Drzal, E., Coley, R. (2012). Predictors of Preschool Attendance Among Immigrant Families. In E. Votruba-Drzal (Chair) *Social Service Use and Implications Among Immigrant Families*. Paper presented at the Annual Research Conference of the Association of Policy Analysis and Management, Baltimore, MD.

Miller, P., Votruba-Drzal, E., & Setodji, C. M. (2012). Income and Early Achievement Across the Urban to Rural Continuum. Poster presented at the Annual Research Conference of the Association of Policy Analysis and Management, Baltimore, MD.

Miller, P., Votruba-Drzal, E. & Setodji, C. M. (2012). Identifying Urbanicity-Related Differences in the Relationship Between Family Income and Early Achievement Using Generalized Additive Modeling. Poster presented at the Society for Research in Child Development Developmental Methodology Themed Meeting, Tampa, Florida.

Miller, P. & Votruba-Drzal, E. (2011). Urbanicity and economic disparities in school readiness: Are low-income rural children at higher risk for low achievement? In P. Miller & E. Votruba-

Drzal (Co-Chairs) *Growing Up Poor in Rural America*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Quebec, Canada.

Miller, P. & Votruba-Drzal, E. (2011). The validity of cognitive stimulation inventories across urbanities. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Quebec, Canada.

Coley, R. L., Votruba-Drzal, E., **Miller, P.**, & Koury, A. (2011). Further Delineating Links Between Child Care Type, Timing, and Extent and Young Children's Behavior Problems. In E. Dearing (Chair) *Contextualizing the Link Between Non-Maternal Child Care and Behavior Problems: Looking Home and Abroad*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Quebec, Canada.

SPONSORED RESEARCH PROJECTS

Learning Research and Development Center

5/1/2017 - 6/30/2019

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, Elizabeth Votruba-Drzal

Spencer Foundation

1/2/2007 – 12/2/2009

Poverty and Place: Differences in Low-Income Children's Achievement across Urbanicity

Total costs: \$49,991

Project title: Principal Investigator

Other investigators: None

REVIEWER

Child Development, ad hoc reviewer

Developmental Psychology, ad hoc reviewer

American Educational Research Journal, ad hoc reviewer

Early Childhood Research Quarterly, ad hoc reviewer

Journal of Applied Developmental Psychology, ad hoc reviewer

Social Science Quarterly, ad hoc reviewer