

January 2022

## **CURRICULUM VITAE**

**Stephen Anthony Petrill**

### **OFFICE ADDRESS**

Dept. of Psychology  
The Ohio State University  
Psychology Building  
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### **EDUCATION**

Postdoctoral (Behavioral Genetics)	1995 – 1997	Social, Genetic, and Developmental Psychiatry Research Centre, Institute of Psychiatry, Memory Lane, London, SE5 8AF, UK & The Pennsylvania State University
Ph.D. (Psychology)	1992-1995	Case Western Reserve University 10900 Euclid Avenue Cleveland, Ohio, 44106
M.A. (Psychology)	1990-1992	Case Western Reserve University 10900 Euclid Avenue Cleveland, Ohio, 44106
B.A. (Psychology) (With Highest Honors)	1986-1990	University of Notre Dame 300 Grace Hall Notre Dame, Indiana 46556

### **EMPLOYMENT**

**Professor (with tenure)**, Department of Psychology, The Ohio State University, Columbus, OH, July 2012 – present.

**Associate Dean for Research**, College of Arts and Sciences, The Ohio State University, Columbus, OH, January 2016 – June 2019 (75% administrative appointment, 25% psychology faculty appointment).

**Professor (with tenure)**, Department of Human Development and Family Science, The Ohio State University, Columbus, OH, October 2006 to July 2012.

**Professor (with tenure)**, Department of Biobehavioral Health, The Pennsylvania State University, University Park, PA, July 2006 to October 2006.

**Associate Professor (with tenure)**, Department of Biobehavioral Health, The Pennsylvania State University, University Park, PA, July 2003 to July 2006.

**Assistant Professor**, Department of Biobehavioral Health, The Pennsylvania State University, University Park, PA, July 2001 to July 2003.

**Assistant Professor**, Department of Psychology, Wesleyan University, Middletown, CT, July 1997 to July 2001.

**Post-Doctoral Research Fellow**, Social, Genetic, and Developmental Psychiatry Research Centre, Institute of Psychiatry, London, July 1995 to July 1997.

**Post-Doctoral Research Fellow**, Center for Developmental and Health Genetics, The Pennsylvania State University, National Institute of Child Health and Human Development Grant HD07454, July 1995 to July 1997.

### **COURTESY FACULTY APPOINTMENTS**

Battelle Center for Mathematical Medicine, Nationwide Children's Hospital, 2008 to present

### **HONORS AND SPECIAL AWARDS**

- 2020: Buckeye Access All Star: Ohio State University Office of Student Disability Services
- 2017 - 2019: President and Provost's Leadership Institute: The Ohio State University
- 2017: Fellow: Association for Psychological Science.
- 2014 - 2015: Core Fulbright Research Scholar Program (Russian Federation), Institute of International Education.
- July 1999: International Society for the Study of Individual Differences Early Career Award.
- July 1998: Award for Excellence in Research. American MENSA Education and Research Foundation and International MENSA Limited.
- June 1995: Thompson Award (best student presentation). Behavior Genetics Association annual meeting, Richmond, VA.
- May 1990: Senior Recognition Reward in Psychology, University of Notre Dame, Notre Dame, IN.

**RESEARCH (students in italics)****GRANTS****In Progress**

**Funding Agency:** NICHD  
**Title:** An Open Learning Disabilities Behavioral Data Repository (R01HD095193)  
**Principal Investigator:** S. Hart and C Schatschneider (S. Petrill PI of OSU subcontract)  
**Dates entire project:** 1/11/19 - 12/31/23  
**Total Costs:** 655,514

Behavioral data related to learning disabilities is expensive and difficult to collect, typically requiring extensive federal investment to get appropriately powered samples. Sharing data from these samples will propel creative new research questions for a small additional investment, and enhance the learning disabilities field and its engagement with the public.

**Funding Agency:** NICHD  
**Title:** Differential Diagnosis in Learning Disabilities (P50 HD027802)  
**Principal Investigator:** E. Willcutt (S. Petrill PI of OSU subcontract)  
**Dates entire project:** 10/1/17 - 6/30/22  
**Total Costs:** 1,695,285

One of three Learning Disabilities Research Centers in the United States, this set of projects and cores examines the genetic and neurobiological etiology of the relationship between math, reading, and attention problems in early adulthood.

**Funding Agency:** NICHD  
**Title:** Early Life Stress and the Environmental Origins of Disease: a Population-based Prospective Longitudinal Study of Children in Rural Poverty (1UG30D023332-01)  
**Principal Investigator:** C. Blair (Petrill PI of OSU subcontract)  
**Dates entire project:** 9/21/2016 – 8/31/2022  
**Total Costs:** \$ 4,880,543

The purpose of this study is to examine genetic and environmental factors affecting health in an ethnically-diverse rural sample of children.

**Completed Grants**

**Funding Agency:** NICHD  
**Title:** Measuring and Modeling Arithmetic Strategy Usage in Children (F32HD090868)  
**Principal Investigator:** *K. Rhodes* (Petrill Faculty Sponsor/Advisor)  
**Total costs:** \$57,066  
**Dates entire project:** 09/01/17-01/01/20

**Funding Agency:** NICHD  
Title: Neurological Underpinnings of Math and Reading Comorbidity: A Twin Study (R24HD075460)  
Principal Investigator: S. Petrill  
Dates entire project: 9/27/12-7/30/17  
Direct costs: \$1,979,455

**Funding Agency:** NICHD  
Title: Etiology and Neuropsychology of Math, Reading, ADHD, and their Covariation (R01HD068728)  
Principal Investigator: S. Petrill (Co-PI with E. Willcutt)  
Dates entire project: 4/15/11-4/14/17  
Direct costs: \$2,903,840

**Funding Agency:** NIDCD  
Title: Molecular Genetics of Language and Related Cognition in Families (1R01DC009453)  
Principal Investigator: C. Bartlett (S. Petrill Co-I of subcontract)  
Dates entire project: 04/01/10 – 03/31/2016  
Direct costs: \$1,517,431 (OSU component)

**Funding Agency:** Core Fulbright Scholars Program  
Title: International Twin Studies Examining Gene - Environment Processes in Mathematics Achievement  
Principal Investigator: S. Petrill  
Dates entire project: 8/1/14- 7/30/15  
Direct costs: 14,000.00

**Funding Agency:** Marci and Bill Ingram Autism Research Center (Wexner Medical Center, The Ohio State University)  
Title: Child Prodigies May Provide a Genetic Clue for Autism  
Principal Investigator: J. Ruthsatz (S. Petrill, Co-I).  
Dates of Funding: 9/1/12 – 8/30/14  
Direct costs: \$90,000

**Funding Agency:** NICHD  
Title: Genetics of Mathematical Cognition and Disabilities (R01HD059215)  
Principal Investigator: S. Petrill  
Dates entire project: 12/1/08 – 12/30/13  
Direct costs: \$2,218,292

**Funding Agency:** NICHD

**Stephen A. Petrill**

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Title: Environmental Influences on Early Reading: A Twin Study  
(2R01HD038075: Competing Continuation)  
Principal Investigator: S. Petrill  
Dates entire project: 6/1/06 – 3/31/13 (no cost extension)  
Direct costs: \$2,344,719

**Funding Agency:** ARRA: NIH/NICHD  
Title: Participant support costs: Efficacy of the core knowledge  
approach to math and science preschool instruction  
(RC1HD063522)  
Principal Investigator: S. Piasta (S. Petrill, Co-I)  
Dates entire project: 09/30/09 – 8/31/2012 (no cost extension)  
Direct Costs: \$506,538

**Funding Agency:** NICHD  
Title: Determinants of Behavioral Development in Children  
(R01HD010333)  
Principal Investigator: S. Wadsworth (S. Petrill, PI of subcontract)  
Dates entire project: 08/01/09 – 07/31/11  
Direct costs: \$142,269 (subcontract)

**Funding Agency:** NICHD  
Title: Child Spontaneous Language Use: Gene-Environment Effects  
(1R01HD050307)  
Principal Investigator: L. DeThorne (S. Petrill, PI of subcontract)  
Dates entire project: 7/1/07-6/30/11  
Direct Costs: \$525,000

**Funding Agency:** ARRA: NICHD  
Title: Environmental Influences on Early Reading: A Twin Study  
(R01HD038075-S1)  
Principal Investigator: S. Petrill  
Dates entire project: 9/1/09 – 12/31/10  
Direct costs: \$118,657

**Funding Agency:** Templeton Foundation  
Title: The Genetics of High Cognitive Abilities  
Principal Investigator: R. Plomin (S. Petrill, PI of subcontract)  
Dates entire project: 6/1/08 – 12/30/10  
Direct Costs: 60,000

**Funding Agency:** Ohio Department of Job and Family Services  
Title: Step Up To Quality  
Principal Investigator: S. Petrill, Co-PI

Dates entire project 7/1/07-6/30/09  
Direct Costs: \$412,000

**Funding Agency:** NICHD  
Title: Adoptive Family Project  
R03HD050243

Principal Investigator: J. Welsh (S. Petrill, consultant)  
Dates entire project: 3/1/07-2/28/09  
Direct costs: \$145,000

**Funding Agency:** OSU Initiative in Population Research  
Title: Working Group Proposal: Understanding the Definition, Etiology  
and Development of Autism Spectrum Disorders

Principal Investigator: S. Petrill  
Dates entire project: 7/1/07-6/30/08  
Direct costs: \$5000

**Funding Agency:** NICHD/IES  
(5R01HD046167)

Title: Genetics of General and Specific Math Disabilities  
Principal Investigator: S. Petrill  
Dates entire project: 10/1/03-6/30/08  
Direct Costs: \$1,575,142

**Funding Agency:** OSU, Targeted Investments in Excellence Population and Health  
Initiative  
Title: Family Structure Change and the Health and Well-Being of Adults  
and Children

Principal Investigator: C. Kamp-Dush (S. Petrill, Co-I)  
Dates entire project: 3/1/07-6/30/08  
Direct Costs: \$31,480

**Funding Agency:** Children Youth and Families Consortium: Penn State University  
Title: International Adoption

Principal Investigator: S. Petrill  
Dates entire project: 7/1/04-6/30/07  
Direct Costs: \$25,000

**Funding Agency:** National Institute of Child Health and Development  
Title: Environmental Influences on Early Reading: A Twin Study  
(1R01HD038075)

Principal Investigator: S. Petrill  
Dates entire project: 4/1/02-6/1/06  
Direct Costs: \$1,757,409

**Funding Agency:** Children Youth and Families Consortium: Penn State University  
**Title:** Development of Racial Identity in Transracial Adopted Children  
**Principal Investigator:** J. Swim (S. Petrill, Co-I).  
**Dates entire project:** 7/1/05-6/30/06  
**Direct Costs:** \$3720

**Funding Agency:** Children Youth and Families Consortium: Penn State University  
**Title:** Behavioral Genomics and Learning Disabilities Pilot  
**Principal Investigator:** S. Petrill  
**Dates entire project:** 1/1/05-5/31/05  
**Direct Costs:** \$7500

**Funding Agency:** Children Youth and Families Consortium: Penn State University  
**Title:** The Etiological Factors of Language Skill and Other Cognitive Abilities: An Interdisciplinary Perspective  
**Principal Investigator:** L. DeThorne (S. Petrill, Co-I).  
**Dates entire project:** 6/1/04-5/31/05  
**Direct Costs:** \$15,000

**Funding Agency:** Children Youth and Families Consortium: Penn State University  
**Title:** Genetics and Prevention  
**Principal Investigator:** M. Feinberg (S. Petrill, Co-PI)  
**Dates entire project:** 3/31/03-3/31/04  
**Direct costs:** \$2300

**Funding Agency:** Children Youth and Families Consortium: Penn State University  
**Title:** Genetics and Language Ability  
**Principal Investigator:** L. DeThorne (S. Petrill, Co-PI)  
**Dates entire project:** 6/01/03-5/31/04  
**Direct costs:** \$5000

**Funding Agency:** Children Youth and Families Consortium: Penn State University  
**Title:** Early environmental influences on development in Guatemalan Children  
**Principal Investigator:** *K. VanNimwegen* (S. Petrill, Co-PI)  
**Dates entire project:** 3/6/02-3/13/02  
**Direct costs:** \$2000

**Funding Agency:** National Science Foundation  
**Title:** Collaborative Research: An International Adoption Study of Developmental Processes in Cognitive, Social-Emotional, and Behavioral Development  
BCS-9907811 (Petrill, PI), Deater-Deckard, PI of collaborative

award at Univ. of Oregon.  
Principal Investigator: S. Petrill  
Dates entire project: 10/1/99-9/30/03  
Direct Costs: \$74,000

**Funding Agency:** Society for the Psychological Study of Social Issues  
Title: An international adoption study of developmental processes in cognitive, social-emotional, and behavioral development

Principal Investigator: S. Petrill  
Co Principal Investigator: K. Deater-Deckard  
Dates Entire Project: 3/1/99-4/1/99  
Direct Costs: \$2000

**Funding Agency:** Wesleyan University Project Grant Program  
Title: An international adoption study of developmental processes in cognitive, social-emotional, and behavioral development-- continuation

Principal Investigator: S. Petrill  
Dates Entire Project: 1/1/99-5/31/99  
Direct Costs: \$750

**Funding Agency:** Institute of Psychiatry, London  
Title: Telephone Validation of the 7-year Parent Report of Child Cognitive Abilities (PARCA)

Principal Investigator: S. Petrill  
Dates Entire Project: 1/1/99-5/31/99  
Direct Costs: \$10,000

**Funding Agency:** Wesleyan University Project Grant Program  
Title: An international adoption study of developmental processes in cognitive, social-emotional, and behavioral development

Principal Investigator: S. Petrill  
Dates Entire Project: 1/1/98-12/31/98  
Direct Costs: \$1500

**Funding Agency:** Institute of Psychiatry, London, UK  
Title: Individual differences in young children's cognitive and social functioning: A twin study

Co-Principal Investigator: S. Petrill  
Dates Entire Project: 6/1/96 – 6/30/97  
Direct Costs: \$36,000

**Funding Agency:** The Armington Research Program on Values in Children



Title: Developing and Testing a Measure of School-Related Temperament  
Principal Investigator: S. Petrill  
Dates Entire Project: 2/1/94-2/1/96  
Direct Costs: \$2569

**Funding Agency:** The Armington Research Program on Values in Children  
Title: Developing and Testing a Measure of School-Related Temperament  
Principal Investigator: S. Petrill  
Dates Entire Project: 7/1/92-6/30/94  
Direct Costs: \$1500

**Funding Agency:** Graduate Alumni Fund, Case Western Reserve University  
Title: Developing and Testing a Measure of School-Related Temperament  
Principal Investigator: S. Petrill  
Dates Entire Project: 1/1/94-8/1/94  
Direct Costs: \$500

**ARTICLES PUBLISHED IN REFERREED JOURNALS** (*Students in italics. Note: Last authorship on papers is based on the medical publication tradition unless otherwise noted.*)

### **2021**

Shero, J. A., Logan, J. A., Petrill, S. A., Willcutt, E., & Hart, S. A. (2021). The Differential Relations Between ADHD and Reading Comprehension: A Quantile Regression and Quantile Genetic Approach. *Behavior Genetics*, 51(6), 631-653.

Smith, J. M., Dethorne, L. S., & Petrill, S. A. (2021). Children Born Prematurely May Demonstrate Catch-up Growth in Pre-adolescence. *Language, Speech, and Hearing Services in Schools* 52 (2), 675-685

### **2020**

Malanchini, M., Rimfeld, K., Wang, Z., Petrill, S. A., Tucker-Drob, E. M., Plomin, R., & Kovas, Y. (2020). Genetic factors underlie the association between anxiety, attitudes and performance in mathematics. *Translational Psychiatry*, 10, 1-11.

Wang, K., Banich, M.T., Reineberg, A.E., Leopold, D.R., Willcutt, E.G., Cutting, L.E., Del Tufo, S.N., Thompson, L.A., Opfer, J., Kanayet, F.J., Lu, Z.-L. and Petrill, S.A. (2020), Left posterior prefrontal regions support domain-general executive processes needed for both reading and math. *Journal of Neuropsychology*, 14(3), 467-495.

**2019**

- Bartlett, C. W., Klamer, B.G., Buyske, S, Petrill, S.A., & Ray, W. C. (2019). Forming Big Datasets through Latent Class Concatenation of Imperfectly Matched Databases Features. *Genes, 10*, 727.
- Centanni, T. M., Anchan, M., Beard, M., Brooks, R., Thompson, L., & Petrill, SA (2019). Genetic and environmental influences on decoding skills-implications for music and reading. *Frontiers in Psychology, 10*, 2604.
- Leopold, D. R., Christopher, M. E., Olson, R. K., Petrill, S. A., & Willcutt, E. G. (2019). Invariance of ADHD Symptoms Across Sex and Age: a Latent Analysis of ADHD and Impairment Ratings from Early Childhood into Adolescence. *Journal of Abnormal Child Psychology, 47*, 21-34.
- Lukowski, S. L., DiTrapani, J., Jeon, M., Wang, Z., Schenker, V. J., Doran, M. M., Hart, S. A., Mazzocco, M.M.M., Willcutt, E. G., Thompson, L. A., & Petrill, S. A. (2019). Multidimensionality in the measurement of math-specific anxiety and its relationship with mathematical performance. *Learning and individual differences, 70*, 228-235.
- Lukowski, S. L., DiTrapani, J., Rockwood, N. J., Jeon, M., Thompson, L. A., & Petrill, S. A. (2019). Etiological distinction across dimensions of math anxiety. *Behavior Genetics, 49*, 310-316.
- Rhodes, K. T., Lukowski, S., Branum-Martin, L., Opfer, J., Geary, D. C., & Petrill, S. A. (2019). Individual differences in addition strategy choice: A psychometric evaluation. *Journal of Educational Psychology, 111*(3), 414-433.
- Tosto, M. G., Garon-Carrier, G. , Gross, S. , Petrill, S. A., Malykh, S., Malki, K. , Hart, S. A., Thompson, L. , Karadaghi, R. L., Yakovlev, N. , Tikhomirova, T. , Opfer, J. E., Mazzocco, M. M., Dionne, G. , Brendgen, M. , Vitaro, F. , Tremblay, R. E., Boivin, M. and Kovas, Y. (2019). The nature of the association between number line and mathematical performance: An international twin study. *British Journal of Educational Psychology, 89*, 787-803.
- Vu, A., Thompson, L.A., Willcutt, E., & Petrill, S. A (2019). Sluggish Cognitive Tempo: Longitudinal Stability and Validity. *ADHD Attention Deficit and Hyperactivity Disorders, 11*, 463-471.
- Wang, K., Leopold, D. R., Banich, M. T., Reineberg, A. E., Willcutt, E. G., Cutting, L. E., Del Tufo, S. N., Thompson, L. A., Opfer, J., Kanayet, F. J., Lu, Z-L., & Petrill, S. A. (2019). Characterizing and decomposing the neural correlates of individual differences in reading ability among adolescents with task-based fMRI. *Developmental Cognitive Neuroscience, 37*, 100647.

**2018**

Gross, S. I., Gross, C. A., Kim, D., Lukowski, S. L., Thompson, L. A., & Petrill, S. A. (2018). A Comparison of Methods for Assessing Performance on the Number Line Estimation Task. *Journal of Numerical Cognition*, 4(3), 554-571.

**2017**

Justice, L. M., Lomax, R., O'Connell, A., Pentimonti, J., Petrill, S. A., Piasta, S. B. ... & Bridges, M. (2017). Oral language and listening comprehension: Same or different constructs? *Journal of Speech, Language, and Hearing Research*, 60(5), 1273-1284.

Lukowski, S. L., Rosenberg-Lee, M., Thompson, L. A., Hart, S. A., Willcutt, E. G., Olson, R. K., Petrill, S. A., & Pennington, B. F. (2017). Approximate number sense shares etiological overlap with mathematics and general cognitive ability. *Intelligence*.

Mahurin-Smith, J., DeThorne, L. S., & Petrill, S. A. (2017). Longitudinal Associations Across Prematurity, Attention, and Language in School-Age Children. *Journal of Speech, Language, and Hearing Research*, 60.12, 3601-3608.

Malanchini, M., Rimfeld, K., Shakeshaft, N. G., Rodic, M., Schofield, K., Selzam, S., Dale, P. S., Petrill, S. A., & Kovas, Y. (2017). The genetic and environmental aetiology of spatial, mathematics and general anxiety. *Scientific Reports*, 7, 42218.

Malanchini, M., Wang, Z., Voronin, I., Schenker, V. J., Plomin, R., Petrill, S. A., & Kovas, Y. (2017). Reading self-perceived ability, enjoyment and achievement: A genetically informative study of their reciprocal links over time. *Developmental Psychology*, 53(4), 698.

Tosto, M. G., Petrill, S. A., Malykh, S., Malki, K., Haworth, C., Mazzocco, M. M. ... & Kovas, Y. (2017). Number sense and mathematics: Which, when and how? *Developmental Psychology*, 53(10), 1924.

Wang, Z., Soden, B., Deater-Deckard, K., Lukowski, S. L., Schenker, V. J., Willcutt, E. G., ... & Petrill, S. A. (2017). Development in reading and math in children from different SES backgrounds: The moderating role of child temperament. *Developmental Science*, 20(3).

**2016**

About, K., Bailey, S., Petrill, S. A., & Cutting, L.E. (2016). Comprehending text versus reading words in young readers with varying reading ability: Distinct patterns of functional connectivity from common processing hubs. *Developmental Science*, 19(4), 232-256.

Harlaar, N., DeThorne, L. S., Smith, J. M., Aparicio Betancourt, M. & Petrill, S. A. (2016). Longitudinal Effects on Early Adolescent Language: A Twin Study. *Journal of Speech, Language, and Hearing Research*, 59(5), 1059-1073.

Hart, S., Logan, J.A.R., Thompson, L. A., Kovas, Y., McLoughlin, G., & Petrill, S. A. (2016). A

latent profile analysis of math achievement, numerosity, and math anxiety in twins. *Journal of Educational Psychology*, 108, 181-193.

Lukowski, S. L., DiTrapani, J., Jeon, J., Wang, Z., Schenker, V. J., Doran, M. A., Hart, S. A., Mazzocco, M. M. M., Willcutt, E. G., Thompson, L. A., & Petrill, S. A. (2016). Multidimensionality in the measurement of math-specific anxiety and its relationship with mathematical performance. *Learning and Individual Differences*.

Tosto, M. G., Asbury, K., Mazzocco, M.M.M., Petrill, S. A., & Kovas, Y. (2016). From classroom environment to mathematics achievement: The mediating role of self-perceived ability and subject interest. *Learning and individual differences*, 50, 260-269.

## **2015**

Blair, C., Sulik, M., Willoughby, M., Mills-Koonce, R., Petrill, S. A., Bartlett, C., & Greenberg, M. (2015). Catechol-methyltransferase Val158met polymorphism interacts with early experience to predict executive functions in early childhood. *Developmental Psychobiology*, 57(7), 833-841.

Gray, S., O'Connell, A. A., Pentimonti, J., Restrepo, M. A., Justice, L. M., Lomax, R., O'Connell, A., Petrill, S. A., Piasta, S. B., Restrepo, M. A., Cain, K., Catts, H., Bridges, M., Hogan, T., Bovaird, J., & Nelson, R. L. (2015). The dimensionality of Spanish in young Spanish-English dual-language learners. *Journal of Speech, Language, and Hearing Research*, 58(3), 754-766.

Justice, L.M., Lomax, R., O'Connell, A., Pentimonti, J., Petrill, S.A., Piasta, S.B., Gray, S.I., Restrepo, M.A., Cain, K., Catts, H. & Bridges, M., (2015). The dimensionality of language ability in young children. *Child Development*, 86(6), 1948-1965.

Kovas Y., Garon-Carrier G., Boivin M., Petrill S.A., Plomin R., Malykh S.B., Spinath F., Murayama K., Ando J., Bogdanova O.Y., & Brendgen M. (2015). Why children differ in motivation to learn: Insights from over 13,000 twins from 6 countries. *Personality and Individual Differences*, 80, 51-63.

Piasta, S. B., Logan, J. A. R., Pelatti, C. Y., Capps, J. L, & Petrill, S. A. (2015). Professional Development for Early Childhood Educators: Efforts to Improve Math and Science Learning Opportunities in Early Childhood Classrooms. *Journal of Educational Psychology*, 107, 407-422. (Note: Authorship listing is not in medical tradition. I am truly "last" author on the manuscript).

Ruthsatz, J., Petrill, S.A., Li, N., Wolock, S.L., & Bartlett, C.W. (2015). Molecular Genetic Evidence for Shared Etiology of Autism and Prodigy. *Human Heredity*, 79(2), 55-59.

Schenker, V., & Petrill, S. A. (2015). Overlapping genetic and child-specific nonshared environmental influences on listening comprehension, reading motivation, and reading comprehension. *Journal of Communication Disorders*, 57, 94-105.

Smith, J. M., Dethorne, L., & Petrill, S. A. (2015). From aardvark to ziggurat: A new tool for assessing children's use of rare vocabulary. *Clinical linguistics & phonetics*, 29(6), 441-454.

Soden, B., Christopher, M. E., Hulslander, J., Olson, R. K., Cutting, L., Keenan, J. M., Thompson, L. A., Wadsworth, S. J., Willcutt, E. G., & Petrill, S. A. (2015). Longitudinal Stability in Reading Comprehension Is Largely Heritable from Grades 1 to 6. *PLOS One*, 10.

Wang, Z., Lukowski, S.L., Hart, S.A., Lyons, I.M., Thompson, L.A., Kovas, Y., Mazzocco, M.M., Plomin, R. & Petrill, S.A. (2015). Is Math Anxiety Always Bad for Math Learning? The Role of Math Motivation. *Psychological Science*, 26(12), 1863-1876.

## **2014**

Berry, D., Deater-Deckard, K., McCartney, K., Wang, Z., & Petrill, S. A. (2014). Gene-environment interaction between DRD4 7-repeat VNTR and early maternal sensitivity predicts inattention trajectories across middle childhood. *Developmental Psychopathology*, 56(3), 373-391.

Greven, C. U., Kovas, Y., Willcutt, E. G. Petrill, S. A., & Plomin, R. (2014). Evidence for shared genetic risk between ADHD symptoms and reduced mathematics ability: a twin study. *Journal of Child Psychology and Psychiatry*, 55 (1), 39-48.

Lukowski, S. L., Soden, B., Hart, S. A., Thompson, A. A., Kovas, Y., & Petrill, S. A. (2014). Etiological distinction of working memory components in relation to mathematics. *Intelligence*, 47, 54-62.

Davis, O. S. P., Band, G., Pirinen, M., Haworth, C. M. A., Meaburn, E. L., Kovas, Y., Harlaar, N., Docherty, S. J., Hanscombe, K. B., Trzaskowski, M., Curtis, C. J. C., Strange, A., Freeman, C., Bellenguez, Su, Z., Pearson, R., Vukcevic, D., Langford, C., Deloukas, P., Hunt, S., Gray, E., Dronov, S., Potter, S. C., Tashakkori-Ghanbaria, A., Edkins, S., Bumpstead, S., Blackwell, J. M., Bramon, E., Brown, M. A., Casas, J. P., Corvin, A., Duncanson, A., Jankowski, J. A. Z., Markus, H. S., Mathew, C. g., Palmer, C. N. A., Rautanen, A., Sawcer, S. J., Trembath, R. C. Viswanathan, A. C., Wood, N. W., Barroso, I., Peltonen, L., Dale, P. S., Petrill, S. A., Schalkwyk, L. S., Craig, I. W., Lewis, C. M., Price, T. S., Donnelly, P., Plomin, R., Spencer, C. C. A., & Wellcome Trust Case Control Consortium (2014). The correlation between reading and mathematics ability at age twelve has a substantial genetic component. *Nature Communications*, 5, 4204.

Petrill, S. A. (2014). Bridging gaps between basic research and clinical practice. *Journal of Child Psychology and Psychiatry*, 55(1), 1.

Petrill, S. A., Logan, J. A. R, Sawyer, B., & Justice, L. M. (2012). It Depends: The Conditional

- Correlation between Frequency of Storybook Reading and Emergent Literacy Skills in Children with Language Impairments. *Journal of Learning Disabilities*, 47 (6), 491-502.
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**BOOK CHAPTERS** (*Students in italics*):

- Thompson, L. A., Gross C. A., Gross, S. I., Lukowski, S. L., & Petrill, S. A. (2018). The etiology of reading and math expertise: The Western Reserve Reading and Math Project. In D. Z. Hambrick, G. Campitelli, and B. N. Macnamara, *The Science of Expertise: Behavioral, neural, and genetic approaches to complex skill* (251-271). New York: Routledge.
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#### **ARTICLES PUBLISHED IN NONREFEREED JOURNALS**

Thompson, L. A., & Petrill, S. A. (1994). Intelligence and scholastic achievement. *International Pediatrics*, 9(1), 22-29. (Invited Review Article).

#### **PRESENTATIONS**

#### **PUBLISHED ABSTRACTS FROM PROFESSIONAL MEETINGS**

Nabb, C. B., Hansen, H. A., Petrill, S. A., & Saygin, Z. M. (2019). Predicting individual reading ability based on anatomical and functional neural connectivity. *Journal of Vision*, 19(10), 120-120.

Hart, S.A., & Petrill, S.A. (2008). Genetic influences on language, reading, and mathematic skills in a national sample: A selected and unselected analysis in the NLSY. *Behavior Genetics*, 38(6), 629.

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#### **PEER REVIEWED PRESENTATIONS** (*students in italics*)

- Zuckerman, A.P., Beard M., & Petrill, S.A (2021). Risk and Protective Factors of Kindergarten Language Skills for Third-Grade Reading Outcomes. American Speech and Hearing Society Annual Meeting, Washington, DC*
- Nabb, C. B., Hansen, H. A., Petrill, S. A., & Saygin, Z. M. (2019). Predicting individual reading ability based on anatomical and functional neural connectivity. Vision Sciences Society Annual Meeting, St Petersburg, FL*
- Gross, S., Gross, C., Thompson, L., Petrill, S. A. (2019, March) Genetic and Environmental Influences on the Triple Code Model of Mathematics. Society for Research in Child Development, Baltimore, MD.*
- Lukowski, S. L., Petrill, S. A. (2019, March) Math Anxiety: Dimensionality and Links to Science Achievement. Society for Research in Child Development, Baltimore, MD.*
- Mason, L. L., Bartlett, C. W., & Petrill, S. A. (2019, March) Genetic Influences on Co-occurrence and Transmission of Language Impairment and Reading Disability: Extended Pedigree Analysis. Society for Research in Child Development, Baltimore, MD.*
- Mason, L. L., Gross, S. I., Bartlett, C. W., Flax, J. F., Petrill, S. A., Brzustowicz, L. M. (2019, October) Non-additive genetic effects in autism spectrum disorder and specific language impairment on reading achievement and symptoms of the broader autism phenotype. American Society of Human Genetics, Houston, TX.*
- Nabb, C., Hansen, H., Petrill, S., Saygin, Z.M (2019, May) Predicting individual reading ability based on anatomical and functional neural connectivity. Vision Sciences Society, St*

Petersburg, FL.

*Rhodes, K., Washington, J., Branum-Martin, L., Petrill, S. A. (03/2019) The role of dialect in African American children's arithmetic performances: Insights from error patterns. Society for Research in Child Development, Baltimore, MD.*

*Mason, L., & Petrill, S. A. (2018, July). New insights into the genetic and environmental contributions to reading development and disability. Symposium presented at the Annual Society for the Scientific Study of Reading Conference, Brighton, UK.*

*Gross S. I., Gross C. A., Thompson L.A., Petrill S.A. (2018, July) Defries-Fulker analyses of low reading ability in a longitudinal twin sample. Symposium presented at the Annual Society for the Scientific Study of Reading Conference, Brighton, UK.*

*Doran, M. M., Lukowski, S. L., & Petrill, S. A. (2017, April) Etiological influences on longitudinal relationships between decoding and orthographic skills: A genetic cross-lagged design. Society for Research in Child Development, Austin, TX*

*Leopold, D., R., Wang, K., Reineberg, A. E., Bailey, S. K., Aboud, K., Banich, M. T., Willcutt, E. G., Cutting L., Thompson, L. A., & Petrill, S. A. (2017, April) On the neurobiological underpinnings of reading ability: Prediction of individual differences using task-based fMRI. Society for Research in Child Development, Austin, TX*

*Lukowski, S. L. & Petrill, S. A. (2017, April) Statistical reasoning uniquely predicts scientific skills. Society for Research in Child Development, Austin, TX*

*Lukowski, S. L., Rosenberg-Lee, M., Thompson, L. A., Hart, S. A., Willcutt, E. G., Olson, R. K., Petrill, S. A., & Pennington, B. (2017, April) Approximate number sense shares etiological overlap with mathematics and general cognitive ability. Society for Research in Child Development, Austin, TX*

*Reineberg, A. E., Leopold, D. R., Banich, M. T., Bailey, S. K., Cutting, L., Lukowski, S., Opfer, J., Lu Z. L., Thompson, L. A., & Petrill, S. A. (2017, April) Variation within and between resting state networks associated with individual differences in reading ability of adolescents. Society for Research in Child Development, Austin, TX*

*Rhodes, K. T., Lukowski, S., Branum-Martin, L. A., & Petrill, S. A. (2017, April) Adolescent arithmetic strategy selection: Counting may be coping for some problem-solvers. Society for Research in Child Development, Austin, TX*

*Vu, A., Lukowski, S., Gross, S. L., Gross, C., Thompson, L. A., & Petrill, S. A. (2017, April) Effects of household chaos on reading ability. Society for Research in Child Development, Austin, TX*

*Doran, M. M., Lukowski, S. L., Petrill, S. A., & Schenker, V. J. (2016, May). Etiological*

*influences on the longitudinal relation between language and reading comprehension.* Association for Psychological Science Annual Convention, Chicago, IL.

Lukowski, S. L. & Petrill, S. A. (2016, May). *Statistical reasoning: An important correlate of scientific skill.* Association for Psychological Science Annual Convention, Chicago, IL.

Lukowski, S. L., DiTrapani, J., Jeon, M., Wang, Z., Schenker, V. J. & Petrill, S. A. (2016, May). *Multidimensionality in the measurement of math-specific anxiety and its relationship with mathematical performance.* Association for Psychological Science Annual Convention, Chicago, IL.

Doran, M., Wang, Z., Lukowski, S., Schenker, V. J., & Petrill, S. A. (2015, July). *Genetic factors influence the concurrent and longitudinal relations between language and reading comprehension.* Poster presented at Society for the Scientific Study of Reading, Hawaii.

Lukowski, S. L., Wang, Z., & Petrill, S. A. (2015, July). *Rapid naming and nonverbal processing speed contribute independently to the etiology of reading.* Paper presented at the Society for the Scientific Study of Reading, Hawaii.

Schenker, V. J., Wang, Z., Lukowski, S. L., Doran, M. M., & Petrill, S.A. (2015, July). *Nonshared environment influences the relationship between reading motivation and reading skills.* Society for the Scientific Study of Reading, Hawaii.

Wang, Z., Lukowski, S., Doran, M., Schenker, V. J., & Petrill, S. (July, 2015). *Cognitive processes in the relation between linguistic comprehension and reading comprehension.* Poster presented at the Society for the Scientific Study of Reading, Hawaii.

Doran M., Wang Z., Malanchini, M., Lukowski, S. L., Schenker, V. J., & Soden B., & Petrill, S. A. (2015, March). *An Examination of the Etiologies of the Relations between Reading Motivation and Reading-Related Constructs.* Poster Presented at the Society for Research in Child Development Biannual Meeting, Philadelphia, PA

Lukowski, S. A., & Petrill, S. A. (2015, March). *Understanding the Dimensionality of Science Content.* Poster presented at the Society for Research in Child Development Biannual Meeting, Philadelphia, PA.

Magill, D., Li, M., Fisher, K., Foley, J., Thompson, L., Petrill, S. A., & Deater-Deckard, K. (2015, March). *Genetic and Environmental Contributions to the Link between Effortful Control and Surgency.* Poster Presented at the Society for Research in Child Development Biannual Meeting, Philadelphia, PA

Petrill, S. A (2015, March). *International perspectives on educational, behavioral, neurobiological, and motivational aspects of mathematical anxiety.* Symposium chaired at the Society for Research in Child Development Annual Meeting, Philadelphia, PA.



- Schenker, V. J., Wang, Z., Lukowski, S. A., & Soden, B., & Petrill, S. A. (2015, March). *A Behavioral Genetic Approach to Understanding the Connection between Reading Motivation and Reading Outcomes in Early Adolescence*. Poster presented at the Society for Research in Child Development Biannual Meeting, Philadelphia, PA.
- Soden, B., Wang, Z., Malanchini, M., Kovas, Y., & Petrill, S. A. (2015, March). *Exploring the moderating effects of SES on reading and math achievement in middle childhood*. Symposium chaired at the Society for Research in Child Development Biannual Meeting, Philadelphia, PA.
- Wang, Z., Soden, B., Deater-Deckard, K., Lukowski, S. L., Schenker, V., Willcutt, E., Thompson, L. A., & Petrill, S. A. (2015 March). *Is Mathematical Anxiety Always Bad for Math Learning: The Role of Math Motivation*. Symposium presented at the Society for Research in Child Development Biannual Meeting, Philadelphia, PA.
- Wang, Z., Soden, B., Deater-Deckard, K., Lukowski, S. L., Schenker, V., Willcutt, E., Thompson, L. A., & Petrill, S. A. (2015, March). *Development in Reading and Math: The Interplay between SES and Child Temperament*. Paper presented at the Society for Research in Child Development Biannual Meeting, Philadelphia, PA
- Lukowski, S. L. & Petrill, S. A. (2014, July). *Processing speed independently contributes to the etiology of reading*. Poster presented at the Society for the Scientific Study of Reading Annual Meeting, Santa Fe, NM
- Petrill, S. A. (2014, July). *Neurobiological Underpinnings of Passage Comprehension: A Twin Study*. Paper presented at the Society for the Scientific Study of Reading, Santa Fe, NM
- Schenker, V.J. & Petrill, S.A. (2014, July). *Parent driven influences on early reading versus child-driven influences on later reading: The heritability of independent reading, home literacy environment, and their connection to reading outcomes*. Poster presented at the Scientific Studies of Reading Annual Meeting, Santa Fe, NM
- Soden, B., Hulslander, J., Christopher, M. E., Olson, R. K., & Petrill, S. A. (2014, July). *No genetic specificity for timed over untimed measures of word and nonword reading*. Paper presented at the Society for the Scientific Study of Reading Annual Meeting, Santa Fe, NM
- Wang, Z., & Petrill, S. (2014, July). *The role of working memory in the links between behavioral problems and reading skills: A behavioral genetic study*. Poster presented at the Society for the Scientific Study of Reading Annual Meeting, Santa Fe, NM
- Schenker, V.J. & Petrill, S.A. (2014, February). *Longitudinal relationships between household chaos, television, and children's reading skills*. Hayes Graduate Research Forum, Columbus, OH

- Lukowski, S. L. & Petrill, S. A. (2013, May). *Etiology of memory components in relation to math outcomes*. 3rd Annual Midwestern Cognitive Science Conference, Columbus, Ohio.
- Petrill, S. A. (2013, April). *Using Genetically Informed Studies to Understand the Etiology of Neurodevelopmental Problems in Childhood: D'onofrio, B. (Chair)*. Society for Research in Child Development, Seattle, WA.
- Lukowski, S. L., Thompson, L. A., & Petrill, S. A. (2013, April). *The etiology of the relationship between spatial ability and math achievement*. Society for Research in Child Development Biennial Meeting, Seattle, WA.
- Mullineaux, P. Deater-Deckard, K., Thompson, L. A., & Petrill, S. A. (2013, April). *Parental Agreement in Differential Feelings and Siblings Adjustment in Middle Childhood*. Society for Research in Child Development, Seattle, WA.
- Petrill, S. A. (2013, April). *Multivariate Genetic Analysis of Math Cognition in the Context of Psychometric Math and Reading Skills*. Society for Research in Child Development, Seattle, WA.
- Soden, B., & Petrill, S. A. (2013, April). *What Changes from Kindergarten to Middle School? Continuous and Novel Genetic and Environmental Influences on Reading Development*. Society for Research in Child Development, Seattle, WA.
- Petrill, S. A. (2013, May). *Neurobiological Underpinnings of Math and Reading Comorbidity: A Twin Study*. Association for Psychological Science, Washington, DC.
- Deater-Deckard, K., Thompson, L. A., & Petrill, S. A. (2013, June). *Temperament correlates of deficient emotion regulation in middle childhood: A behavioral genetic analysis*. Association for Research in Personality, Charlotte, NC.
- El Mallah, S., Wang, Z., Thompson, L. A., Petrill, S. A., & Deater-Deckard, K. (2013, June). *Observed stability and plasticity: Links with reading achievement in childhood*. Association for Research in Personality, Charlotte, NC.
- Wang, Z., Petrill, S. A., Thompson, L. A., & Deater-Deckard, K. (2013, June). *Genetic and nongenetic variance across the full range of individual differences in two broad personality factors*. Association for Research in Personality, Charlotte, NC.
- Lukowski, S. L., Soden, B., & Petrill, S. A. (2013, July). *Etiological distinction between spatial and verbal memory in relation to psychometric reading and math*. Scientific Studies of Reading, Hong Kong, China.

- Soden, S., & Petrill, S. A. (2013, July). *Genetic contributions to longitudinal similarity in reading and related outcomes influences across the “learning to read” and “reading to learn” years*. Scientific Studies of Reading, Hong Kong, China.
- Tosto, M. G., Kovas, Y., Plomin, R., Petrill, S. A., Tikhomirova, T., Bubnova, Y., Sharafieva, K., Rodic, M., Budakova, A. & Malykh, M. (2013, July). *Number Sense beyond g: the etiology of the link between estimation, memory, and processing speed*. 13th European Congress of Psychology, Stockholm, Sweden.
- Li, N., Wolock, S. L., Petrill, S. A., Flax, J. F., Bassett, A. S., Brzustowicz, L. M., & Bartlett C. W. (2013, October). *The Role of CNTNAP2 in a Developmental Language Disorder and Potential Mechanisms*. American Society of Human Genetics, Boston, MA.
- Wolock, S. L., Li, N., Petrill, S. A., Flax, J. F., Bassett, A. S., Brzustowicz, L. M., & Bartlett, C. W. (2013, October). *Linkage Disequilibrium Mapping of the 13q21 Specific Language Impairment Locus Using Epistasis Analysis Models*. American Society of Human Genetics, Boston, MA.
- Li, N., Cheong, S. Y., Goode, M, Petrill, S. A., Bassett, A. S., Brzustowicz, L. M., & Bartlett, C. W. (Nov, 2012). *The eQTLs in language related genes reveal a gene x gene Interaction between BDNF and PCDH17 in the human brain*. Poster presented at the American Society for Human Genetics, San Francisco CA.
- Deater-Deckard, K., Logan, J., Wang, Z., Chen, N., & Petrill, S. A. (May, 2012). *Heritability across the full range of individual differences in temperament*. Poster presented at the Association for Psychological Science, Chicago IL.
- Logan, J. A. R. & Petrill, S. A. (2012, February). *Stability in children’s reading skills*. Paper presented at the Developmental Methodology Section of the Society for Research in Child Development, Tampa, Florida.
- Logan, J. A. R. & Petrill, S. A. (2012, July). *Growth in reading from Kindergarten to Grade 6: Genetic and Environmental Influences*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Montreal, CA.
- Mullineaux, P., Deater-Deckard, K., Petrill, S. A., & Thompson, L. A. (May, 2012). *Differences in genetic and environmental mediation patterns for parental ratings of behavior*. Poster presented at the Association for Psychological Science, Chicago IL.
- Petrill, S. A., Hart, S. A., & Lukowski, S. (December, 2012). *Multivariate Genetic Analysis of Math Cognition in the Context of Psychometric Math and Reading Skills*. Paper presented at the International Society for the Study of Individual Differences, San Antonio TX.
- Logan, J. A. R. & Petrill, S. A. (2011, July). *Growth in reading from Kindergarten to Grade 6:*

- Genetic and Environmental Influences*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Tampa, Florida.
- Petrill, S. A. (2011, July). *Math Fluency is etiologically distinct from decoding fluency, untimed math, and untimed reading performance*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Tampa, Florida.
- Berry, D., Deater-Deckard, K., McCartney, K. A., Wang, Z., & Petrill, S.A. (2011, March). *Gene-Environment Interaction between DRD4 7-Repeat and Maternal Sensitivity Predicts Inattention Trajectories in Middle Childhood*. Poster presented at the biannual meeting of the Society for Research in Child Development, Montreal, Canada.
- Deater-Deckard, K., Thompson, L. A., & Petrill, S. A. (2011, March). *Maternal Working Memory and Reactive Negativity: The Role of Schema Discrepancy*. Paper presented at the biannual meeting of the Society for Research in Child Development, Montreal, Canada.
- Logan, J. A. R. & Petrill, S. (2011, March). *Genetic influences on growth in math skills: Evidence from a U.S. twin sample*. Paper presented at the biannual meeting of the Society for Research in Child Development, Montreal, Canada.
- Middleton, M.E., & Petrill, S.A. (2011, March). *The Relationship between Narrative Comprehension and Reading Comprehension*. Poster presented at the biannual meeting of the Society for Research in Child Development, Montreal, Canada.
- Petrill, S.A. (2011, February). Discussant in symposium titled “*Exploring how things we don’t teach relate to things we do teach*” (Chair/Organizer: S.A. Hart). Presented at the annual meeting of the Pacific Coast Research Conference, San Diego, CA.
- Petrill, S.A. (2011, March). Discussant in symposium titled “*The Origins of Individual Differences in Mathematics: Longitudinal Multivariate Investigations in the UK, US, and Canada*” (Chair/Organizer: Y. Kovas). Presented at the biannual meeting of the Society for Research in Child Development, Montreal, Canada.
- Vincent, P., Logan, J., & Petrill, S. A. (2011, March). *Parent vs. Child Reports of Home Environment: Which has Stronger Implications for Reading and Language Skills?* Poster presented at the biannual meeting of the Society for Research in Child Development, Montreal, Canada.
- Wang, Z., Deater-Deckard, K., Thompson, L. A., & Petrill, S. A. (2011, March). *A Behavioral Genetic Study of the Links between Working Memory and Attention Networks in Middle Childhood*. Poster presented at the biannual meeting of the Society for Research in Child Development, Montreal, Canada.
- DeThorne, L.S., Harlaar, N., & Petrill, S.A. (2010, July). *Longitudinal stability of genetic effects*

*on children's conversational language measures.* Child Language Seminar, London, UK

Hart, S.A., & Petrill, S.A. (2010, July). *Exploring the genetic effects underlying the relationship between general executive functioning and reading performance.* Poster presented at the annual meeting of the Society for the Scientific Study of Reading, Berlin, Germany.

Hart, S.A., & Petrill, S.A. (2010, February). *The association between working memory and psychometric mathematics and reading performance measures: A twin study.* Poster presented at the annual meeting of the Pacific Coast Research Conference, San Diego, CA.

Logan, J. A. R. & Petrill, S. (2010, February). *Beyond the mean: The heritability of reading and related skills across the distribution of performance.* Poster presented at the Pacific Coast Research Conference, San Diego, CA.

Logan, J. A. R. & Petrill, S. (2010, July). *Examining differences in genetic and environmental effects across levels of reading.* Paper presented at the Society for the Scientific Study of Reading, Berlin, Germany.

Middleton, M.E., & Petrill, S.A. (2010, July). *Making Information Meaningful: Comprehension Assessment.* Poster session presented at The Scientific Studies of Reading Conference, Berlin, Germany.

Pentimonti, J., Dynia, J., Petrill, S. A., & Justice, L. (2010, November). *Parent child book reading: Heritability and environmental factors.* Paper presented at the American Speech Language and Hearing Association, Philadelphia, PA.

Petrill, S. A. (2010, February). *Towards a biobehavioral model of reading.* Symposium presented and chaired at the Pacific Coast Research Conference, San Diego, CA.

Beekman, C., Deater-Deckard, K., Kim, J., Mullineaux, P. Y., Petrill, S. A., & Thompson, L. A. (April, 2009). *Approach/positive anticipation, frustration/anger, and overt aggression in childhood.* Poster, Society for Research in Child Development, Denver CO.

Betjemann, R., Willcutt, E.G., Olson, R.K., Keenan, J., DeFries, J.C., Pennington, B.F., Petrill, S.A., & Hart, S.A. (2009, June). *Etiology of comorbidity between reading disability, math disability, and attention-deficit/hyperactivity disorder.* Poster presented at the annual meeting of the Society for the Scientific Study of Reading, Boston, MA

Hart, S.A., & Petrill, S.A. (2009, June). *ADHD, reading and mathematics performance: Varying affects of genes and environments from a twin sample.* Poster accepted at the annual meeting of the Society for the Scientific Study of Reading, Boston, MA.

Hart, S.A., & Petrill, S.A. (2009, February). *Exploring timed and untimed reading and*

- mathematics abilities: linking measurement models with genetic models.* Poster accepted at the annual meeting of the Pacific Coast Research Conference, San Diego, CA.
- Jarrett, M., Deater-Deckard, K., Mullineaux, P. Y., Petrill, S. A., Thompson, L. A., & DeThorne, L. S. (April, 2009). *The relations among inattention, hyper-impulsivity, and inhibitory control: A behavioral genetic analysis.* Poster, Society for Research in Child Development, Denver CO.
- Middleton, M.E., & Petrill, S.A. (2009, June). *Neighborhood and family-level influences on vocabulary development: A twin study.* Poster session presented at The Scientific Studies of Reading, Boston, MA.
- Mullineaux, P. Y., Deater-Deckard, K., Beekman, C., Petrill, S. A., & Thompson, L. A. (April, 2009). *Household chaos in the family context: A longitudinal multi-informant study.* Paper in symposium (Mullineaux & Deater-Deckard, co-chairs), Society for Research in Child Development, Denver CO.
- Mullineaux, P. Y., Deater-Deckard, K., Petrill, S. A., & Thompson, L. A. (April, 2009). *Parenting and child behavior problems: A longitudinal analysis of nonshared environment.* Paper in symposium (A Pike, Chair), Society for Research in Child Development, Denver CO.
- Petrill, S. A., Hart, S. A., Deater-Deckard, K., Schatschneider, C., Thompson, L. A., & Justice L. M. *Genes, Environments, and the Development of Early Reading Skills.* (2009, February). Paper presented at the annual meeting of the Pacific Coast Research Conference, San Diego, CA.
- Hart, S.A., & Petrill, S.A. (2008, October). *ADHD and mathematics performance: Genetic independence and environmental covariance in a twin sample.* Poster accepted at the annual meeting of the World Congress of Psychiatric Genetics, Osaka, Japan.
- Hart, S.A., Petrill, S.A., & Kamp Dush, C.M (2008, June). *Genetic influences on language, reading, and mathematic skills in a national sample: A selected and unselected analysis in the NLSY.* Paper presented at the annual meeting of the Behavioral Genetics Association, Louisville, KY.
- Petrill, S. A., Hart, S. A., Deater-Deckard, K., Schatschneider, C., Thompson, L. A., & Justice L. M. *Behavioral genetics of general and specific math skills.* (2008, February). Paper presented at the annual meeting of the Pacific Coast Research Conference, San Diego, CA.
- Deater-Deckard, K., Petrill, S. A., & Thompson, L. A. (2007, April). *Nonshared environmental influences on temperament in middle childhood.* Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.

- Glover, M B., Deater-Deckard, K., & Petrill, S. A. (2007, April). *Fathers' feelings toward adoptive and non-adoptive children: Associations with externalizing and internalizing problems*. Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Hart, S.A., & Petrill, S. A. (2007, July). *Home Literacy Environment as an Environmental Measure: A Twin Study*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Prague, CZ.
- Hart, S.A., & Petrill, S. A. (2007, June). *Genetic and environmental influences between various general cognitive processes and math ability: A twin study*. Paper presented at the annual meeting of the Behavioral Genetics Association, Amsterdam.
- Hart, S.A., & Petrill, S. A. (2007, April). *Univariate Analysis of Mathematics with a Mediation Effect: A Twin Study*. Paper presented at the biannual meeting of the Society for Research in Child Development, Boston, MA.
- Johnson, A. D., Martin, A., & Petrill, S. A. (2007, April). *The home literacy environment and early reading: Associations between HLE characteristics, the home environment, and literacy*. Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- McDonald, S. E., Deater-Deckard, K., Petrill, S. A., & Thompson, L. A. (2007, April). *Genetic and environmental variance in temperament in middle childhood*. Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Petrill, S. A., (2007, June). *Environmental Influences on Early Reading: Evidence from an Adoption Study*. Paper presented at the annual meeting of the Behavioral Genetics Association, Amsterdam.
- Petrill, S. A. (2007, October). *Genes, environments, and growth in early reading skills*. Paper presented at the annual meeting of the Society for Mind, Brain, & Education, Fort Worth, TX.
- Petrill, S. A., Hart, S. A., & Thompson, L. A. (2007, April). *Examining the correlation and independence between math and reading skills: Evidence from a twin study*. Paper presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Petrill, S. A., & Johnson, A. D. (2007, July). *The home literacy environment and early reading: Evidence from a twin study*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Prague, CZ.
- Petrill, S. A., Seidman, S., Deater-Deckard, K., & Thompson, L. A. (2007). *Environmental*

- Influences on Early Reading: Evidence from a Twin Study*. Paper presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Ramesh, S., & Petrill, S. A. (2007, April). *Etiology of Reading Fluency and its Association with Decoding and Orthographic Skills*. Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- DeThorne, L.S. & Petrill, S.A. (2006, November). *Genetic Effects on Children's Conversational Language Use*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Miami, FL.
- DeThorne, L.S., Petrill, S.A., & Campbell, R. (2006, June). *Genetic Effects on Lexical Diversity*. Paper presented at the Symposium on Research in Child Language Disorders, Madison, WI.
- Davison, M.D., DeThorne, L.S., & Petrill, S.A. (2006, June). *Associations between Measure D and Reading-Related Skills*. Poster presented at the Symposium on Research in Child Language Disorders, Madison, WI.
- Hart, S.A., & Petrill, S.A. (2006, June). *Univariate analyses of the growth of reading outcome measures*. Paper presented at annual meeting of the Behavioral Genetics Association, Storrs, CT.
- Hart, S. A., & Petrill, S. A. (2006, June). *Understanding the links between measured environments, reading, and math outcomes: Evidence from a twin study*. Paper presented at annual meeting of the Society for the Scientific Study of Reading, Vancouver, BC.
- Petrill, S. A. (2006, February). *Mathematics disability: Definition, etiology, and comorbidity*. Chaired symposium presented the annual meeting of the Pacific Coast Research Conference, San Diego, CA.
- Petrill, S. A., & Hart, S. (2006, June). *Genes, environments, and the links between reading and math skills, evidence from a longitudinal twin study*. Paper presented at annual meeting of the Society for the Scientific Study of Reading, Vancouver, BC.
- DeThorne, L. S., & Petrill, S. A. (2005, June). *Parent report of children's difficulty with language: A twin study*. Poster presented at the annual Symposium on Research in Child Language Disorders, Madison, WI.
- Deater-Deckard, K., & Petrill, S. A. (2005, April). *Externalizing and internalizing problems in childhood: Gene-environment processes*. Poster presented at the Society for Research in Child Development biannual meeting, Atlanta, GA.
- Deater-Deckard, D., Ivy, L., & Petrill, S. A. (2005, April). *Maternal Warmth Moderates the Link*



- between Physical Punishment and Child Externalizing Problems*. Poster presented at the Society for Research in Child Development biannual meeting, Atlanta, GA.
- DeThorne, L. S., Petrill, S. A., Thompson, L. A., & Deater-Deckard, K. (2005, April). *Genetic influences on spontaneous language use in twins*. Poster presented at the Society for Research in Child Development biannual meeting, Atlanta, GA.
- Holtz, F., Deater-Deckard, K., & Petrill, S. A. (2005, April). *An examination of negativity in dyadic and triadic family interactions: Predicting behavior problems from triads*. Poster presented at the Society for Research in Child Development biannual meeting, Atlanta, GA.
- Petrill, S. A. (2005, June). *Environmental influences on early reading: A Twin Study*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Toronto, Canada.
- Petrill, S. A. (2005, April). *Gene-environment processes and the overlap between reading, math, language, and general cognitive skills*. Chaired paper symposium accepted to the Society for Research in Child Development biannual meeting, Atlanta, GA.
- Petrill, S. A. (2005, February). *Phonological awareness, fluency, and reading outcomes: Gene-environment processes*. Paper presented at the annual meeting of the Pacific Coast Research Conference, San Diego, CA.
- Petrill, S. A., Deater-Deckard, K., & Thompson, L. A. (2005, April). *Environmental influences on early reading: A twin study*. Poster presented at the Society for Research in Child Development biannual meeting, Atlanta, GA.
- Petrill, S. A., Thompson, L. A., & Deater-Deckard, K. (2005, April). *Examining the Double Deficit Hypothesis in Emergent Literacy: A Behavioral Genetic Perspective*. Paper presented at the Society for Research in Child Development biannual meeting, Atlanta, GA.
- Zack, S. E., & Petrill, S. A. (2005, April). *Parental perception of risk in adopted children*. Poster presented at the Society for Research in Child Development biannual meeting, Atlanta, GA.
- DeThorne, L. S., & Petrill, S. A. (2004, October). *Etiological factors of language ability*. Poster presented at the American Speech Language Hearing Association, Philadelphia, PA.
- DeThorne, L. S., Petrill, S. A., Hayiou-Thomas, E., & Plomin, R. (2004, March). *Etiological differences of low expressive vocabulary skill as a function of IQ*. Poster presented at Pennsylvania Speech-Language-Hearing Association Convention, State College, PA.

- Saltsman, B. M., Petrill, S. A., & Deater-Deckard, K. (2004, March). *Relationship between adopted sibling age of placement and post-adoptive behavioral outcomes*. Poster submitted to the Society for Behavioral Medicine Annual Meeting, Washington, DC.
- Petrill, S. A. (2003, June). *Genes, environments, and the development of reading skills*. Chaired paper symposium presented at the Society for the Scientific Study of Reading, Denver, CO.
- Petrill, S. A., & Deater-Deckard, K. (2003, June). *Environmental influences on early reading: Evidence from an adoption study*. (2003, June). Paper presented at the Society for the Scientific Study of Reading, Denver, CO.
- Petrill, S. A. *Task Orientation, parental warmth, and SES mediate a portion of the shared environmental variance in cognitive ability in early childhood*. (2003, April). Poster presented at the Society for Research in Child Development Biennial Meeting, Tampa, FL.
- K. L. Van Nimwegen, S. A. Petrill, K. Deater-Deckard, T. M. Kochie, S. D. Markley, K. A. Patel, F. Mustafaa, and S. Zack. (2003, April). *Pre-adoptive Environmental Influences on Outcomes in Adopted Children*. Poster presented at the Society for Research in Child Development Biennial Meeting, Tampa, FL
- Grant, M. D., Johansson, B., Berg, S., Petrill, S. A., Vogler, G. P., & McClearn, G. E. (2002, July). *Estimates of heritability of serum levels of homocysteine in an elderly Swedish twin population*. Poster presented at Behavior Genetics Association, Keystone, CO.
- Van Nimwegen, K. L., Petrill, S. A., Deater-Deckard, K., Markley, S. D., Kochie, T. N. (2002, April). *Prenatal health influences on outcomes in adopted children*. Poster presented at the Society for Behavioral Medicine Annual Meeting, Washington DC.
- Van Nimwegen, K.L. & Petrill, S.A. (2002, July). *Early environmental influences on behavior outcomes in a British twin sample*. Poster presented at Behavior Genetics Association, Keystone, CO.
- Petrill, S. A. (2001, August). *Genes, environments, and the covariance among cognitive aptitudes*. Paper presented at American Psychological Association annual meeting, San Francisco, CA.
- Petrill, S. A., Deater-Deckard, D., Johnson, A., Van Nimwegen, K, & Ahn, J. M. (2001, April). *Environmental influences on early reading: The Northeast Northwest Collaborative Adoption Study*. Poster presented to the Society for Research in Child Development biannual meeting, Minneapolis, MN.
- Petrill, S. A., Luo, D., Thompson, L. A., & Detterman, D. K. (2000, November). *Inspection time and the relationship among elementary cognitive tasks, general intelligence and specific*

- cognitive abilities*. Paper presented at the international Society for Intelligence Research Annual Meeting, Cleveland, OH.
- Petrill, S. A. (1999, April). *Predicting the discrepancy between cognitive ability and academic achievement: Exploring environmental influences*. Paper presented at the Society for Research in Child Development meeting, Albuquerque, NM.
- Petrill, S. A., & Deater-Deckard, K. (1999, April). *Understanding the role of gene-environment effects in early cognitive and social development*. Symposium chaired and presented at the Society for Research in Child Development meeting, Albuquerque, NM.
- Striegel Moore, R. H., Leslie, D., Garvin, V., Petrill, S. A., & Rosenheck, R. A. (1999, November). *Health services utilization in eating disorders not otherwise specified*. Annual meeting of the Association for the Advancement of Behavior Therapy, Toronto, Canada.
- Petrill, S. A. (1998, June). *The longitudinal octo-twin study: The etiology of cognitive functioning and health-related behaviors in the oldest-old*. Symposium chaired and presented at the Behavioral Genetics Association Annual Meeting, Stockholm, Sweden.
- Deater-Deckard, K., Pylas, M. V., & Petrill, S. A. (1997, September). *Child emotional and behavioural adjustment and parenting environment: A twin observational method*. British Psychological Society Developmental Section annual meeting, Loughborough, U.K.
- Johansson, B., Whitfield, K., Petrill, S. A., & McClearn, G. E. (1997, November). *Stability and decline in very late life: Perspectives from longitudinal research*. Gerontological Society of America annual meeting, Cincinnati, OH.
- Petrill, S. A. (1997, April). *The genetic etiology of high cognitive ability in 14 to 36 month old twins*. Poster presented at the Society for Research in Child Development meeting, Washington, D.C.
- Petrill, S. A., Hohnen, B., Deater-Deckard, K., Eley, T., & Thompson, L. A. (1997, April). *Beyond heritability: Behavior genetics and theories of development*. Symposium chaired and presented, Society for Research in Child Development meeting, Washington, DC.
- Petrill, S. A., & Plomin, R. (1996, September). *Twins' early development study (TEDS): A study of language and non-language based cognitive delay and their links to behavior problems*. Paper presented at the British Psychological Society annual conference, Oxford, England.
- Petrill, S. A. (1995, March). *The phenotypic and genetic relationships among measures of intelligence, school-related temperament, and scholastic achievement*. Poster presented at

the Society for Research in Child Development meeting, Indianapolis, IN.

- Petrill, S. A., Schatschneider, C. W., & Thompson, L. A. (1994, March). *Intelligence is important to the definition of reading disability*. Poster presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities annual meeting, Gatlinburg, TN.
- Thapar, A., Petrill, S. A., & Thompson, L. A. (1994, March). *The heritability of memory: A meta-analytic study*. Poster presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities annual meeting, Gatlinburg, TN.
- Petrill, S. A. (1993, March). *Understanding the relationship among elementary cognitive abilities*. Poster presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities annual meeting, Gatlinburg, TN.
- Petrill, S. A. & Vasen, J. H. (1993, March). *Preschool intelligence: An information processing approach*. Poster presented at the Society for Research in Child Development meeting, New Orleans, LA.
- Young, S. & Petrill, S. A. (1993, March). *Correlations between behavior problems, IQ, and achievement*. Poster presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities annual meeting, Gatlinburg, TN.
- Petrill, S. A. (1992, March). *The development, testing, and application of a factor structure based upon measures of general intelligence, psychometric specific cognitive abilities, and elementary cognitive abilities*. Poster presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities annual meeting, Gatlinburg, TN.
- Powell, S. S., Thompson, L. A., Dave, M., & Petrill, S. A. (1992, May). *Intercorrelations between heterogeneous measures of temperament*. International Conference on Infant Studies annual meeting, Miami, FL.
- Petrill, S. A., Thompson, L. A., & Detterman, D. K. (1991, September). *The phenotypic and genetic relationships among general intelligence, psychometric specific cognitive abilities, and elementary cognitive abilities*. Poster presented at the International Course on Methodology for Genetic Studies of Twins and Families, NATO Advanced Study Institute, Leuven, Belgium.

## BY INVITATION

- Petrill, S. A. (2019, October) *Genes, Environments, Neurobiology and the Development of Reading and Math skills*. Psychology Department Speaker Series, University of Massachusetts, Amherst.

- Petrill, S. A. (2017, May) *Genetic, Environmental, and Neurobiological Underpinnings of Math and Reading Co-morbidity*. Department of Psychology Symposium Series, University of Texas, Austin
- Petrill, S. A. (2016, June). *Behavioral Genetics: Learning Abilities and Disabilities*. Curry Ingram School, Vanderbilt University, Nashville, TN.
- Petrill, S. A. (2016, August). *Neurobiological Underpinnings of Math and Reading Comorbidity: A Twin Study*. Eunice Kennedy Shriver National Institute of Child Health and Development, Bethesda, MD
- Petrill, S. A. (2015, August). *Neurobiological Underpinnings of Math and Reading Comorbidity: A Twin Study*. Eunice Kennedy Shriver National Institute of Child Health and Development, Bethesda, MD
- Petrill, S. A. (2015, October). *Biological Underpinnings of Passage Comprehension: A Twin Study*. International Dyslexia Association Annual Meeting, Grapevine, TX
- Petrill, S. A. (2014, October). *Examining the Genetic Influences on Mathematics and Reading Disability*. The Dyslexia Foundation Annual Meeting, Boston, MA
- Petrill, S. A. (2014, July). *The etiology of mathematical anxiety and its relationship with math cognition, math achievement, and math motivation*. Fulbright Research Scholars Program, Tomsk, Russia.
- Petrill, S. A. (2014, May). *Quantitative genetic and neuroimaging approaches to the study of reading and math*. Eunice Kennedy Shriver National Institute of Health and Human Development program officers and branch chiefs meeting, NICHD, Washington, DC
- Petrill, S. A. (2014, May). *Neurobiological Underpinnings of Math and Reading Comorbidity: A Twin Study*. Learning Disabilities Innovation HUB annual investigator meeting, NICHD: Washington, DC
- Petrill, S. A. (2014, May). *Genetics of Math Cognition and Disabilities in Relation to Reading*. 2014 Math Cognition Conference, Washington, DC
- Lukowski, S. L. & Petrill, S. A. (2014, May). *Processing speed, attention, and reading: Generalist genes or distinct pathways of risk?* NCH-OSU Human Genetics Symposium, Columbus, Ohio
- Schenker, V.J. & Petrill, S.A. (2014, May). *Parent-driven influences on early reading versus child-driven influences on later reading: A behavioral genetic study on home literacy*

*environment, reading self-efficacy, and willingness to take on difficult reading material.* NCH-OSU Human Genetics Symposium, Columbus, OH

Petrill, S. A. (2013, October). *International Studies of Twins*. Tomsk State University, Tomsk, Russia.

Petrill, S. A. (2013, October). *Quantitative genetic and neuroimaging approaches to the study of reading and math*. Moscow State University, Moscow, Russia

Petrill, S. A. (2013, June). *Quantitative genetic and neuroimaging approaches to the study of language, reading, and math disabilities*. International Workshop on Brain, Cognition, and Learning (co-organizer of workshop). Beijing Normal University.

Petrill, S. A. (2013, May). *Neurobiological Underpinnings of Math and Reading Comorbidity: A Twin Study*. Learning Disabilities Innovation Hub Annual Investigator's Meeting, Washington, DC

Petrill, S. A. (2013, March). *Gene X Environment Interactions involving School/Teacher Effects*. NICHD workshop: Nature AND Nurture: How Genes and Environment Interact, Washington, DC

Petrill, S. A. (2012, October). *Genes, Environments, and the Development of Academic Skills*. Beijing Normal University.

Petrill, S. A. (2012, October). *Genes, Environments, and the Development of Academic Skills*. Chinese Academy of Sciences.

Petrill, S. A. (2012 June). *Multivariate Twin Models*. Progress in education through gene-environment studies workshop. Tomsk, Russia.

Petrill, S. A. (2012, June). *Relating reading comprehension to language and broader reading skills: A behavior genetics approach*. International Dyslexia Foundation, Tallinn, Estonia.

Petrill, S. A. (2011, December). *Formative Assessment and Individual Differences: What is the Role of Math Cognition and Development?* Keynote presentation at the annual meeting of Florida Center for Research in Science, Technology, Mathematics, and Engineering for Math/Science educators, Destin, Florida.

Petrill, S. A. (2010, August). *Biobehavioral approaches to math disability*. Symposium presented at the NICHD workshop on reading and math disability, Washington DC.

Petrill, S. A. (2006, March). *Genes, Environments, and the Development of Reading comprehension*. Paper presented at the Florida Center for Reading Research Conference

on Reading Comprehension, St. Petersburg, FL.

Petrill, S. A. (2005, September). *The development of reading skills: Identification of genetic and environmental influences*. Wesleyan University Seminar Series, Middletown, CT.

Petrill, S. A. (2005, June). *Gene-environment processes and the development of reading skills*. Toronto Hospital for Sick Children, Toronto, CA.

Petrill, S. A. (2004, October). *Gene-environment processes and the development of reading skills*. Kennedy Center, Vanderbilt University, Nashville, TN.

Petrill, S. A. (2003, November). *Gene-environment processes and development*. College of Arts and Sciences' "Human Nature" speaker series. Ashland University, Ashland, OH.

Petrill, S. A. (2002, June). *Genes, environments, and bidirectionality in parent-child interactions*. Brody Institute on Parent-Child Relations, Mandel School of Applied Social Sciences, Case Western Reserve University, Cleveland, OH.

Petrill, S. A. (2001, October). *Cognitive development and decline, it's not just genes*. Pfizer Foundation Distinguished Lecture Series, "How the Brain Works". Smithsonian Institution, Washington, DC.

Petrill, S. A. (1999, July). *Genetic differentiation and dedifferentiation across the lifespan: A behavioral genetic perspective*. Early Career Award Address. International Society for the Study of Individual Differences, Vancouver, BC.

Striegel Moore, R. H., Leslie, D., Garvin, V., Petrill, S. A., & Rosenheck, R. A. (1998, December). *Health care utilization for eating disorders: Implications for advocacy*. Advocacy meeting for Eating Disorders, Washington, DC.

Striegel Moore, R. H., Leslie, D., Garvin, V., Petrill, S. A., & Rosenheck, R. A. (1998, November). *Treatment for eating disorders in 1995: Exploring a national U.S. database*. Research Society for Eating Disorders.

## TEACHING

### **COURSES TAUGHT**

#### **The Ohio State University (2006 – present).**

**Developmental Research Methods** (Graduate), Dept. of Psychology, The Ohio State University, 2012, 2017, 2021

**Developmental Psychology Seminar** (Graduate), Dept. of Psychology, The Ohio State

University 2015, 2016, 2020

**Psychology of Adolescence, Honors** (Undergraduate), Dept. of Psychology, The Ohio State University, 2021

**Psychology of Childhood** (Undergraduate), Dept. of Psychology, The Ohio State University, 2013, 2014, 2015, 2019, 2020, 2021

**Psychology of Adjustment** (Undergraduate), Dept. of Psychology, The Ohio State University, 2014.

**Behavioral Genetics** (Graduate), Dept. of Human Development and Family Science, The Ohio State University, 2010, 2012.

**Introduction to Child Development** (undergraduate), Dept. of Human Development and Family Science, The Ohio State University, 2008, 2009, 2011, 2012.

**The Pennsylvania State University (2001- 2006).**

**Health, Biobehavioral Perspectives** (Graduate, co-taught), Dept. of Biobehavioral Health, Pennsylvania State University, 2005.

**JumpStart** (First Year Seminar, Undergraduate), Dept. of Biobehavioral Health, Pennsylvania State University, 2003, 2004 (by invitation of the Dean of the College of Health and Human Development).

**Research Applications in Biobehavioral Health**, (Undergraduate), Dept. of Biobehavioral Health, Pennsylvania State University 2002, 2003.

**Research Strategies for Studying Biobehavioral Health**, (Undergraduate), Dept. of Biobehavioral Health, Pennsylvania State University 2001, 2002, 2004, 2006.

**Statistical Genetics** (Graduate, co-taught), Dept. of Biobehavioral Health, Pennsylvania State University Penn State University, 2002.

**Wesleyan University (1997-2001).**

**Graduate Seminar** (Graduate), Department of Psychology, Wesleyan University, 1999, 2000.

**Developmental Psychology** (Undergraduate), Department of Psychology, Wesleyan University, 1997, 1998, 1999, 2000.

**Research Methods in Developmental Psychology** (Undergraduate), Department of Psychology, Wesleyan University, 1998, 1999.



**Developmental Behavioral Genetics** (Undergraduate), Department of Psychology, Wesleyan University, 1998, 1999.

**Lifespan Development** (Undergraduate), Department of Psychology, Wesleyan University, 1998.

**Courses taught as a postdoc and graduate student (1990 – 1997).**

**Behavioral Genetics Methodology** (Graduate), Social Genetic and Developmental Psychiatry Research Centre, Institute of Psychiatry, 1995.

**Behavioral Genetics** (Undergraduate), Department of Psychology, Case Western Reserve University, 1995.

**Quantitative Methods** (Undergraduate), Department of Psychology, Case Western Reserve University, 1995.

**Cognitive Psychology** (Undergraduate), Department of Psychology, Case Western Reserve University, 1994.

**Psychology of Adjustment** (Undergraduate), Department of Psychology, Case Western Reserve University, 1994.

**Introductory Psychology** (AP High School), Hawken Upper Preparatory, 1994.

**Psychology of Adjustment** (Undergraduate), Department of Psychology, Ashland University, Ashland, OH, 1994.

**Exploring Gender Differences** (Undergraduate), Department of Psychology, Case Western Reserve University, 1993.

**Introductory Psychology** (Undergraduate), Department of Psychology, Case Western Reserve University, 1991 (Teaching Assistant).

**THESES SUPERVISED**

**Undergraduate:**

2017: Danielle Blackfield, The Ohio State University, Senior Honors Thesis

2015: Julia Dionne, The Ohio State University, Senior Honors Thesis

2011: Jacquelyn Delany, The Ohio State University, Senior Honors Thesis

2010: April Minor, The Ohio State University, Senior Honors Thesis

2008: Marissa Koby, The Ohio State University, Senior Honors Thesis

- 2008: Megan Servick, The Ohio State University, Senior Honors Thesis
- 2007: Dana Webster, Pennsylvania State University, Senior Honors Thesis
- 2005: Sima Seidman, Pennsylvania State University, Senior Honors Thesis
- 2002: Anna Johnson, Wesleyan University, Senior Honors Thesis
- 2001: Kathryn VanNimwegen, Wesleyan University, Senior Honors Thesis
- 2001: Jen Greenberg, Wesleyan University, Senior Honors Thesis
- 1999: Katie Mayland, Wesleyan University, Senior Honors Thesis
- 1998: Rebecca Bermont, Wesleyan University, Senior Honors Thesis

**Masters:**

- 2021: Cedric Jennings, The Ohio State University
- 2021: Astrid Zuckerman, The Ohio State University
- 2019: Laura Mason, The Ohio State University
- 2016: Madeline Doran, The Ohio State University
- 2015: Victoria Schenker, The Ohio State University
- 2014: Sarah Lukowski, The Ohio State University
- 2011: Maggie Middleton, The Ohio State University
- 2009: Pamela Vincent, The Ohio State University
- 2006: Sara Hart, Pennsylvania State University
- 2003: Kathryn VanNimwegen, Pennsylvania State University
- 2000: Bessie Wilkerson, Wesleyan University

**Doctoral:**

- 2021: Laura Mason, The Ohio State University
- 2017: Sarah Lukowski, The Ohio State University
- 2012: Pamela Vincent, The Ohio State University
- 2010: Sara Hart, The Ohio State University
- 2008: Saradha Ramesh, Pennsylvania State University
- 2007: Brian Saltsman, Pennsylvania State University
- Note: Wesleyan University did not have a Ph.D. program

**Postdoctoral:**

- 2016-2019: Kathy Rhodes, The Ohio State University
- 2018-2019: Susan Gross, The Ohio State University
- 2013-2015: Zhe Wang, The Ohio State University
- 2012-2014: Brooke Soden, The Ohio State University
- 2012-2013: Rachel Beattie, The Ohio State University
- 2009-2011: Jessica Logan, The Ohio State University
- 2008-2009: Nicole Harlaar, The Ohio State University
- 2001-2003: Paul Lipton, Pennsylvania State University

**Other:**

- 2015-2016: Anna Budakova, President of the Russian Federation Visiting Scholar, The Ohio State University.

## **CURRENT STUDENTS**

### Doctoral:

Cedric Jennings  
Astrid Zuckerman

### Senior Honors:

Sophia Yu

## **SERVICE**

### **PROFESSIONAL SERVICE**

#### **Service to Professional Organizations:**

Treasurer: Mathematical Cognition and Learning Society, 2017 – 2020

Board Member: Mathematical Cognition and Learning Society; 2017-2020

Director of Public Relations: International Society for Intelligence Research, 2002

Treasurer: Society for the Scientific Study of Reading, 2005 – 2008

#### **Review Committees**

NIH-CSR ZRG1 F01B, CSR. This SEP focuses on F- level fellowship applications in the areas of neuroscience and complex human traits, 2021-

Regular Member, National Advisory Child Health and Human Development Council, 2014 - 2018

Regular Member: Institute for Education Sciences, Basic Processes Panel, 2014 - 2016

Ad Hoc Reviewer, Center for Scientific Review, SEP, February, 2013

Ad Hoc Reviewer, Institute for Education Sciences, Basic Processes Panel, Oct 2012

Ad Hoc Reviewer: Center for Scientific Review: SEP, July 2010.

Ad Hoc Reviewer: Center for Scientific Review: ARRA, July 2009.

Chair, Behavioral Genetics and Epidemiology Study Section, National Institutes of Health: 2007 – 2009.

Regular Member: Behavioral Genetics and Epidemiology Study Section, National Institutes of Health: 2005 - 2007

Ad Hoc Reviewer for B/START program: 2005

Ad Hoc Reviewer for RFA OB-03-001 "Pathways Linking Education to Health": 2003

Ad Hoc Reviewer for NIH/NIDA Center Grant application: "Drug Abuse Vulnerability: Mechanisms and Manifestations": 2003

Ad Hoc Reviewer: Social Sciences, Nursing, and Methods – 2 Study Section, National Institutes of Health: 2002-2003.

#### **Journal Editorial Service**

Associate Editor, *Behavior Genetics*, July 2016 -

Associate Editor, *Journal of Child Psychology and Psychiatry*, 2008 – 2014

**Journal Editorial Review Board Memberships**

*Journal of Child Psychology and Psychiatry*, 2014 -  
*Infant and Child Development*, 2007 - 2019  
*Annals of Dyslexia*, 2006 –  
*Journal of Learning Disabilities*: 2006 –  
*Journal of Personality and Social Psychology*: 2003 – 2007  
*Intelligence*: 2002 –2013

**Ad-Hoc Reviewer**

*American Journal of Human Genetics*, 2013  
*Annals of Dyslexia*: 2001 – 2006  
*Behavior Genetics*: 1997-  
*British Journal of Clinical Psychology*: 1998 -  
*Current Directions in Psychological Science*: 1997  
*Developmental Psychology*: 1998-  
*Educational Testing Service*: 2000  
*Journal of Child Psychology and Psychiatry*: 2003 -  
*Journal of Experimental Psychology, General*: 2015 -  
*Journal of Personality and Social Psychology*: 1998-2000, 2007 - present  
*Intelligence*: 1997 – 2002, 2013 -  
*Lawrence Erlbaum Associates*: 2001  
*Learning and Individual Differences*, 2008-  
*Molecular Psychiatry*, 2009-  
*National Science Foundation: Division of Social Behavioral and Economic Research*: 2000  
*Personality and Individual Differences*: 2015 -  
*PNAS*: 2014 –  
*Psychological Medicine*: 2014 -  
*Psychological Science*: 2004 -  
*Psychological Bulletin*: 2006, 2013  
*Psychological Review*: 2014  
*School Psychology Review*: 1999  
*Scientific Studies of Reading*, 2012 -

**Memberships**

Association for Psychological Science (Fellow)  
Phi Beta Kappa  
Society for Research in Child Development  
Society for the Scientific Study of Reading  
Mathematical Cognition and Learning Society (Treasurer)

**Other Professional Service**

Member, Florida Center for Reading Research  
NICHD Center for Learning Disabilities  
Scientific Advisory Board.

Member: NICHD Learning Disabilities Innovation Hub PI network, 2012 – 2016.

Participant: NICHD panel on new directions in reading and math disability research (August, 2010).

Steering Committee Member. *Mathematics Cognition: Development, Neurobiology, Learning, and Instruction*. NICHD U13 Conference Grant (Berch, PI), 2013 – 2016.

Technical Advisor: Math Formative Assessment Program. Florida Center of Science, Technology, Mathematics, and Engineering. 2012-2013.

Member: NICHD Math PI network, 2004 - 2013.

**SERVICE TO THE UNIVERSITY**

**The Ohio State University (2006 - )**

University Service:

Co-chair: Ingram Fund for Autism, Ohio State University/Nationwide Children’s Hospital, April 2011 – 2013

Member: Management committee: Center for Cognitive and Behavioral Brain Imaging, College of Arts and Sciences, 2011 - 2012 (became college service after move to A&S).

Faculty Participant: OSU Winter College, OSU Development, February, 2010.

College Service: College of Education and Human Ecology (2006 – June, 2012):

Educational Psychology Search Committee, 2012

EHE Department/School Re-alignment Task Force, 2011

Member, College Promotion and Tenure Committee, Summer 2010

Departmental Service: Human Development and Family Science (2006 - June, 2012)

Chair, Promotion and Tenure Committee, 2008. 2009. 2010, 2011

Member, Departmental Promotion and Tenure Committee, 2006, 2012

Senior Faculty Mentor for four untenured faculty, 2006 - 2012

Chair, Faculty Search Committee, 2007, 2010

College Service: College of Arts and Sciences (July, 2012 - )

Associate Dean for Research, 2016 - 2019

Member: Management committee: Center for Cognitive and Behavioral Brain Imaging, College of Arts and Sciences, 2012 –

Departmental Service: Department of Psychology (July, 2012 - )

Co-Chair, Diversity Equity and Inclusion Task Force, 2021 -

Chair, Graduate Studies Committee, 2018 -

Member, Graduate Studies Committee, 2016-2017

Development Committee, 2016 – 2018

Graduate Stipends, Developmental Area, 2013 - 2018

Member, Promotion and Tenure Committee: 2015 - 2016

Area Coordinator: Developmental Program: 2014 - 2016  
Graduate Admissions Coordinator, Developmental Area, 2012, 2013  
Member, Committee of Eligible Faculty, 2012, 2013,  
Member, Behavioral Neuroscience Search Committee, 2012

**Pennsylvania State University (2001 - 2006)**

College and University Service:

Assistant Director, Center for Developmental and Health Genetics, 2003 - 2006  
Member, Children Youth and Families Consortium Steering Committee, 2003 - 2006  
External Committee Member: Department of Nutrition Faculty Search Committee, 2005  
College of Health and Human Development International Advisory Board, 2004  
Member, Faculty Council, College of Health and Human Development, 2002 - 2004  
Chaired a session for the Children Youth and Families Consortium examining the possibility of developing collaborations based upon adoption research, 2001

Departmental Service:

Professor-in-Charge, Graduate Program, Department of Biobehavioral Health, 2005 - 2006  
Member, Department of Biobehavioral Health, Curriculum Committee, 2001 - 2006  
Chair, Department of Biobehavioral Health, Awards Committee, 2004  
Member, Department of Biobehavioral Health, Awards Committee, 2003  
Member, Department of Biobehavioral Health, Graduate Admissions Committee, 2002 - 2005  
Co-Chair, Department of Biobehavioral Health, Colloquium Committee, 2002  
Children Youth and Families Consortium working group in the area of childhood obesity, 2001  
Developed a manual for research methods (BBH310W) to be used as a resource for other BBH faculty members teaching this course, 2001.

**Wesleyan University (1997-2001)**

College and University Service:

Member, Institutional Review Board, 2000 - 2001  
Attended and presented at the November, 1999 Wesleyan University Trustees meeting  
Advisor, McNair Program for Under-Represented Students, 1998  
Co-Chair, Division III, Teaching and Learning Committee, 1998  
First Year Advisor, 1998-1999 (advised 1<sup>st</sup> and 2<sup>nd</sup> year students in addition to major advisees)  
Member, Graduate Council, 1998 - 2000

Departmental Service:

Member, 2050 Program in Diversity, 1998 - 2001  
Member, MA Review Program Committee, 2000  
Director, Department of Psychology Graduate Program, 1998 - 2000  
Member, Department of Psychology, Neuroscience Search Committee, 1999  
Member, Department of Psychology, Curriculum Committee, 1997  
Member, Department of Psychology, Graduate Program Committee, 1997

**SERVICE TO THE COMMUNITY**

Member, Board of Trustees, Pontifical College Josephinum, 2019 -

Deacon, Roman Catholic Diocese of Columbus, Ordained 2016

Presentation to Center of Science and Industry, *How the Brain Learns Language*, 2014

Presentation to the Green County Alumni Club, 2014

Presentation to "Lunch with a scientist" Ohio State University, 2014

Executive Committee, AutismSpeaks Columbus Walk, Oct 2009

Member, Autism Society for Ohio Insurance Parity Committee, 2008

Co-Chair, AutismSpeaks Columbus Walk, Oct 2008

Parent Advocate for Children with Autism, Columbus, Ohio, 2007

Faculty Advisor: Best Buddies, Penn State Chapter (pairs colleges students with special needs adults in the community), 2005

Member: TwinsDays Research Development Steering Committee: Twinsburg, Ohio, 2005

Speaker, State Wide Adoption Network Spring Meeting, 2003, Lancaster, PA

Attended State Wide Adoption Network Spring Meeting, 2002, State College, PA

Presentation to Mothers of Adopted Children monthly meeting, 2001, Hartford, CT

Member, Institutional Review Board, Connecticut Valley Hospital, 1998-2001

Speaker, Adoptive Parent's Committee Tri-State Annual Meeting, Long Island, NY, 1999

Speaker, Mothers of Adopted Children Monthly Meeting, Milford, CT, 1998

Keynote Speaker, Mother's of Twins Club State Convention, CT, 1997