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Education

1995 - 2000	University of Chicago, Chicago, IL Ph. D., Psychology
1986-1992	University of Krasnoyarsk, Russia B.A., Psychology

Research and Teaching Experience

2009 – present	Associate Professor Lynch School of Education, Boston College
2004-2009	Assistant Professor Lynch School of Education, Boston College
2000 – 2004	Post-Doctorate Research Associate Department of Psychology, University of Chicago
1992-1993	Lecturer University of Krasnoyarsk, Russia

Grants and Awards

American Montessori Foundation, Research grant, 2014 -2015
 National Science Foundation Grant #HRD-0522491, 2005-2008
 Research Expense Grants, Boston College, 2005-2006, 2011-2012
 McCormick Tribune Early Childhood Research Seed Grant, 2002-2004
 John Dewey Lectureship Award, 1999
 University of Chicago Century Fellowship, 1995-1999
 Charles Hubbard Judd Award, 1996

Publications

Peer-reviewed journal articles:

1. Laski, E. V., Schiffman, J., Shen, C., & Vasilyeva, M. (2016). Kindergartners' base-10 knowledge predicts arithmetic accuracy concurrently and longitudinally. *Learning and Individual Differences*.
2. Shen, C., Vasilyeva, M., & Laski, E. (2016). Here, but not there: Cross-national variability of gender effects in arithmetic. *Journal of Experimental Child Psychology*, *146*, 50-65.
3. Laski, E., Schiffman, J., Vasilyeva, M., & Ermakova, A. (2016). Arithmetic

- accuracy in children from high- and low-income schools: What do strategies have to do with it? *AERA Open*, 2, 1-14.
4. Laski, E.V., Vasilyeva, M., & Schiffman, J. (2016). Longitudinal comparison of Montessori versus non-Montessori students' place-value and arithmetic knowledge. *Journal of Montessori Research*, 2, 1-15.
 5. Vasilyeva, M., Laski, E., & Shen, C. (2015). Computational fluency and strategy choice predict individual and cross-national differences on complex arithmetic. *Developmental Psychology*, 51(10), 1489-1500.
 6. Solomon, T., Vasilyeva, M., Levine, S., & Huttenlocher, J. (2015). Minding the gap: Children's difficulty conceptualizing spatial intervals as linear measurement units. *Developmental Psychology*, 51(11), 1564-1573.
 7. Vasilyeva, M., Laski, E., Ermakova, A., Lai, W.-F., Jeong, Y., & Hachigian, A. (2015). Re-examining the language account of cross-national differences in number representations. *Journal of Experimental Child Psychology*, 129, 12-25.
 8. Vasilyeva, M., & Gámez, P. (2015). Exploring interactions between semantic and syntactic processes: The role of animacy in syntactic priming. *Journal of Experimental Child Psychology*, 138, 15-30.
 9. Gámez, P., & Vasilyeva, M. (2015). Increasing second language learners' production and comprehension of developmentally-advanced syntactic forms. *Language Learning and Development*, 11, 128-151.
 10. Nezhnov, P., Kardanova, E., Vasilyeva, M., & Ludlow, L. (2015). Operationalizing levels of academic mastery based on Vygotsky's theory: The study of mathematical knowledge. *Educational and Psychological Measurement*, 75, 235-259.
 11. Dulaney, A., Vasilyeva, M., O'Dwyer, L. (2015). Individual differences in cognitive resources and elementary school mathematics achievement: Examining the roles of storage and attention. *Learning and Individual Differences*, 37, 55-63.
 12. Ganley, C. M., & Vasilyeva, M. (2014). The role of anxiety and working memory in gender differences in mathematics. *Journal of Educational Psychology*, 106 (1), 105-120.
 13. Ganley, C., Vasilyeva, M., & Dulaney, A. (2014). Spatial ability mediates the gender difference in middle-school students' science performance. *Child Development*, 85 (4), 1419-1432.
 14. Laski, E., Ermakova, A., & Vasilyeva, M. (2014). Early use of decomposition strategy for addition and its relation to base-10 knowledge. *Journal of Applied Developmental Psychology*, 35, 444-454.
 15. Vasilyeva, M., Ganley, C., Casey, B., Dulaney, A., Tillinger, M., & Anderson, K. (2013). How children solve volume problems: Investigating factors influencing strategy choice. *Cognition and Instruction*, 31, 29-61.
 16. Ganley, C., Mingle, L. A., Ryan, A., Ryan, K., Vasilyeva, M., & Perry, M. (2013). An examination of stereotype threat effects on girls' mathematics performance. *Developmental Psychology*, 49, 1886-1897.
 17. Vasilyeva, M., & Lourenco, S. (2012). The development of spatial cognition. *Wiley Interdisciplinary Reviews: Cognitive Science*, 3, 349-362.
 18. Vasilyeva, M., & Waterfall, H. (2012). Beyond syntactic priming: Evidence for activation of alternative syntactic structures. *Journal of Child Language*, 39, 258-283.
 19. Ganley, C., & Vasilyeva, M. (2011). Sex differences in the relation between math

- performance, spatial skills, and attitudes. *Journal of Applied Developmental Psychology*, *32*, 235-242.
20. Bowers, E., & Vasilyeva, M. (2011). The relation between teacher input and lexical growth of preschoolers. *Applied Psycholinguistics*, *32*, 221-241.
 21. Casey, B., Dearing, E., Vasilyeva, M., Ganley, C., & Tine, M. (2011). Spatial and numerical predictors of measurement performance: The moderating effects of community poverty and gender. *Journal of Educational Psychology*, *103*, 296-311.
 22. Vasilyeva, M., Waterfall, H., Gamez, P., Gomez, L. E., Bowers, E., & Shimpi, M. (2010). Cross-linguistic syntactic priming in bilingual children. *Journal of Child Language*, *37*, 1037-1064.
 23. Vasilyeva, M., & Bowers, E. (2010). Exploring the effects of similarity on mapping spatial relations. *Journal of Experimental Child Psychology*, *106*, 221-239.
 24. Huttenlocher, J., Waterfall, H., Vasilyeva, M., Vevea, J., & Hedges, L. (2010). Sources of variability in children's language growth. *Cognitive Psychology*, *61*, 343-365.
 25. Vasilyeva, M., Casey, B., Dearing, E., & Ganley, C. (2009). Measurement skills in low-income elementary school students: Exploring the nature of gender differences. *Cognition and Instruction*, *27*, 401-428.
 26. Vasilyeva, M., Ludlow, L. H., Casey, B. M., & St. Onge, C. (2009). Examination of the psychometric properties of the measurement skills assessment. *Educational and Psychological Measurement*, *69*, 106-131.
 27. Vasilyeva, M., Waterfall, H., & Huttenlocher, J. (2008). Emergence of syntax: Commonalities and differences across children. *Developmental Science*, *11*, 84-97.
 28. Huttenlocher, J., Vasilyeva, M., Newcombe, N., & Duffy, S. (2008). Developing symbolic capacity one step at a time. *Cognition*, *106*, 1-12.
 29. Vasilyeva, M., Duffy, S., & Huttenlocher, J. (2007). Developmental changes in the use of absolute and relative information: The case of spatial extent. *Journal of Cognition and Development*, *8*, 455-471.
 30. Huttenlocher, J., Vasilyeva, M., Waterfall, H., Vevea, J., & Hedges, L. (2007). The varieties of speech to young children. *Developmental Psychology*, *43*, 1062-1083.
 31. Shimpi, P.M., Gamez, P., Huttenlocher, J., & Vasilyeva, M. (2007) Syntactic priming in 3- and 4-year-old children: Evidence for abstract representations of transitive and dative forms. *Developmental Psychology*, *43*, 1334-1346.
 32. Vasilyeva, M., & Bowers, E. (2006). Children's use of geometric information in mapping tasks. *Journal of Experimental Child Psychology*, *95*, 255-277.
 33. Vasilyeva, M., Huttenlocher, J., & Waterfall, H. (2006). Effects of language intervention on syntactic skill levels of preschoolers. *Developmental Psychology*, *42*, 164-174.
 34. Klibanoff, R., Levine, S., Huttenlocher, J., Vasilyeva, M., & Hedges, L. (2006). Preschool children's mathematical knowledge: The effect of teacher "math talk". *Developmental Psychology*, *42*, 59-69.
 35. Levine, S., Vasilyeva, M., Lourenco, S., Newcombe, N., & Huttenlocher, J. (2005). Socioeconomic status modifies the sex difference in spatial skill. *Psychological Science*, *16*, 841-845.
 36. Lourenco, S.F., Huttenlocher, J., & Vasilyeva, M. (2005). Toddlers' representations of space: The role of viewer perspective. *Psychological Science*, *16*, 255-260.
 37. Vasilyeva, M. & Huttenlocher, J. (2004). Early development of scaling ability. *Developmental Psychology*, *40*, 682-690.
 38. Huttenlocher, J., Vasilyeva, M., Shimpi, P. (2004). Syntactic priming in young children. *Journal of Memory and Language*, *50*, 182-195.

39. Huttenlocher, J. & Vasilyeva, M. (2003). How toddlers represent enclosed spaces. *Cognitive Science*, 27, 749-766.
40. Vasilyeva, M. (2002). Solving spatial tasks with unaligned layouts: The difficulty of dealing with conflicting information. *Journal of Experimental Child Psychology*, 83, 291-303.
41. Huttenlocher, J., Vasilyeva, M., Cymmerman, E., & Levine, S. (2002). Language input and child syntax. *Cognitive Psychology*, 45, 337-374.
42. Huttenlocher, J., Newcombe, N., & Vasilyeva, M. (1999). Spatial scaling in young children. *Psychological Science*, 10, 393-398.

Book chapters:

1. Vasilyeva, M., Waterfall, H., & Gomez, L. (2011). Using priming procedures with children. In E. Hoff (Ed.), *The guide to research methods in child language*. Oxford, UK: Blackwell Publishing.
2. Vasilyeva, M., & Waterfall, H. (2011). Variability in language development: Relation to SES and environmental input. In S. Neuman and D. Dickinson (Eds.), *Handbook of Early Literacy Research*, pp. 36-48. New York, NY: Guilford Press.
3. Vasilyeva, M., & Lourenco, S. F. (2010). Spatial development. In W. F. Overton (Ed.), *Cognition, biology, and methods across the life-span. Volume 1 of the Handbook of life-span development*, pp. 720-753. Hoboken, NJ: Wiley.
4. Huttenlocher, J., Lourenco, S. F., & Vasilyeva, M. (2010). Perspectives on spatial development. In K. S. Mix, L. B. Smith, & M. Gasser (Eds.), *The spatial foundations of cognition and language*, pp. 87-101. New York, NY: Oxford University Press.
5. Vasilyeva, M. (2005). Spatial cognition and perception. *Encyclopedia of Social Measurement, Vol. 3*, pp. 591-597. San Diego, CA: Elsevier Inc.

Submitted Manuscripts:

- Laski, E., Ermakova, A., & Vasilyeva, M. Promoting advanced arithmetic strategies: does using manipulatives help and under what conditions?
- Gómez, L., & Vasilyeva, M. Teachers' read-aloud practices as predictors of children's vocabulary: The case of Chilean preschools
- Dulaney, A., Vasilyeva, M., & Laski, E. Children's use of decomposition strategies mediates the visuospatial memory and arithmetic accuracy relation
- Vasilyeva, M., Laski, E., Veraksa, A., & Shen, C. Development of children's early understanding of numeric structure. (Psychology in Russia)
- Shen, C., Miele, D., & Vasilyeva, M. The relation between college students' academic mindsets and their persistence during math problem solving (Psychology in Russia)
- Veraksa, A., & Vasilyeva, M. Development of self-regulation in preschool children. (Voprosy Psychologii)

Selected Conference Presentations, Invited Talks

- Vasilyeva, M. (2016). Emergence of questions: commonalities and differences across children. Invited talk at the Radcliffe Institute for Advanced Study, Harvard University.
- Schiffman, J., Laski, E. V., & Vasilyeva, M. (2015). What do strategies have to do with it? Examining the income gap in early addition. Poster presented at the Biennial Meeting of the Cognitive Development Society. Columbus, Ohio.

- Vasilyeva, M., & Laski, E. (2015). Using strategies as a crystal ball: Which strategies predict mathematics achievement? Symposium organized at the 2015 biennial meeting of the *SRCD*, Philadelphia, USA.
- Vasilyeva, M., & Laski, E. (2015). Strategy choice mediates cross-national differences on complex arithmetic tasks. Paper presented at the 2015 biennial meeting of the *SRCD*, Philadelphia, USA.
- Vasilyeva, M., Laski, E., & Ermakova, A. (2015). Cross-national differences in number representations. Poster presented at the 2015 biennial meeting of the *SRCD*, Philadelphia, USA.
- Vasilyeva, M. (2013). Diagnostic toolkit for the assessment of procedural and conceptual skills in primary school students. Paper presented at the *World Bank Symposium* "Assessment for Global Learning," Washington, DC, USA.
- Vasilyeva, M. (2012). Gender differences in STEM achievement and the role of spatial skills. Paper presented at the *Learning and Brain* conference sponsored by the Mind, Brain & Education Program, Harvard Graduate School of Education, Boston, USA.
- Vasilyeva, M., & Gomez, L. (2011). Interaction between syntactic and semantic processes in children's sentence production. Paper presented at the 2011 biennial meeting of the *SRCD*, Montreal, Canada.
- Ganley, C., & Vasilyeva, M. (2011). Relation between gender, anxiety and math performance: A developmental perspective. Paper presented at the 2011 biennial meeting of the *SRCD*, Montreal, Canada.
- Solomon, T., Vasilyeva, M., Levine, S., & Huttenlocher, J. (2011). Abilities and limitations in elementary school children's understanding of measurement. Poster presented at the 2011 biennial meeting of the *SRCD*, Montreal, Canada.
- Huttenlocher, J., Waterfall, H., Vasilyeva, M., Vevea, J., Hedges, L. (2011). Sources of language growth. Paper presented at the 2011 biennial meeting of the *SRCD*, Montreal, Canada.
- Vasilyeva, M., Waterfall, H., & Gamez, P. (2009). Cross-linguistic structural priming in bilingual children. Paper presented at the 2009 biennial meeting of the *SRCD*, Denver, CO.
- Casey, B., Vasilyeva, M., & Dearing, E. (2008). Spatial and numerical predictors of measurement performance in boys and girls from lower- and higher-income communities. Paper presented at the *Conference on Research and Training in Spatial Intelligence*, Chicago, IL.
- Vasilyeva, M., & Casey, B. (2007). Gender differences in measurement skills in low-income students. Poster presented at the Joint Annual Meeting of the *National Science Foundation*, Washington, DC.
- Vasilyeva, M., & Casey, B. (2007). Measurement skills in elementary school students: Exploring the nature of individual differences. Paper presented at the 2007 biennial meeting of the *SRCD*, Boston, MA.
- Bowers, E., & Vasilyeva, M. (2007). Language development of native and non-native English speakers in multilingual classrooms. Poster presented at the 2007 biennial meeting of the *SRCD*, Boston, MA.
- Bowers, E., & Vasilyeva, M. (2007). Language growth in students attending multilingual preschools. Poster presented the 2007 meetings of the *AERA*, Chicago, IL.
- Vasilyeva, M. (2005). Early ability to use geometric information on mapping tasks. Paper presented at the biennial meeting of the *SRCD*, Atlanta, GA.
- Vasilyeva, M., & Elston, H. (2005). Examining the effect of specific features of language input in a preschool setting. Paper presented at the biennial meeting of the *SRCD*,

- Atlanta, GA.
- Levine, S., Vasilyeva, M., Lourenco, S., Newcombe, N., & Huttenlocher, J. (2005). The sex difference in spatial skill: sensitivity to socioeconomic status. Poster presented at the biennial meeting of the *SRCD*, Atlanta, GA.
- Vasilyeva, M. (2003). The development of scaling in two-dimensional space. Poster presented at the biennial meeting of the *SRCD*, Tampa, FL.
- Shimpi, P., & Vasilyeva, M. (2003). Syntactic priming in young children. Poster presented at the biennial meeting of the *SRCD*, Tampa, FL.
- Vasilyeva, M. (2002). Difficulty of dealing with conflicting spatial information in preschoolers. Paper presented at the annual meeting of the *Midwestern Psychological Association*, Chicago, IL.
- Vasilyeva, M. (2001). Development of understanding of the relational correspondence between spaces. Poster presented at the biennial meeting of the *SRCD*, Minneapolis, MN.

Ad Hoc Manuscript Review

Reviewed manuscripts for: *British Journal of Development Psychology*, *Child Development*, *Cognition*, *Cognitive Psychology*, *Developmental Psychology*, *Early Childhood Research Quarterly*, *First Language*, *Infancy*, *Journal of Child Language*, *Journal of Experimental Child Psychology*, *Language Learning and Development*, *Learning and Individual Differences*, *Merrill-Palmer Quarterly*, *Psychological Science*, *Psychological Bulletin* and *Review*.

Review Panels

National Science Foundation, 2007, 2008 & 2010, member of the review panel for the program: *Research on Gender in Science and Engineering*

Membership in Professional Societies

Society for Research in Child Development
Cognitive Development Society