

## VITA

Robert Pasnak

### Professional Address

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### Education

University of Maryland, B.S., 1964, Psychology  
The Pennsylvania State University, M.A., 1966, Psychology  
The Pennsylvania State University, Ph.D., 1969, Psychology

### Professional Employment

Catholic University of America, 1968-1972

Assistant Professor of Psychology, 1968-1972

George Mason University, June 1972-present

Professor of Psychology, 1979 to present

Associate Professor of Psychology, 1974-1978

Assistant Professor of Psychology, 1972-1974

### Teaching:

#### Undergraduate Courses:

Introductory Psychology

Lifespan Development

Child Psychology

Developmental Psychology

Statistics (lecture and laboratory)

Experimental Psychology (lecture and laboratory)

Learning (lecture and laboratory)

Comparative Psychology (lecture and laboratory)

Motivation (lecture and laboratory)

Graduate Courses:

Experimental Design and Research Methodology

Advanced General Psychology

Applications of Learning Principles

Proseminar in Perception and Learning

Advanced Statistics

Theories of Child Development

Life Span Development

Cognitive Interventions

Cognitive and Perceptual Development

Major Campus Activities:

Campus Blind Student Coordinator

Liaison for Office for Handicapped Students

Accreditation Reviewer, M.Ed. in Special and Elementary Education

Accreditation Reviewer, DA.Ed. Degree

Undergraduate Program Director for Psychology

Sabbatical Review Committee

Honor Court Advisor

University Ombudsman

CAS Undergraduate Appeals Committee

Faculty Grievance Committee

Graduate Appeals Committee

Psychology Executive Committee

Graduate Council

Professional and Community Activities:

Biospherics, Incorporated 1971-1974

Preparing synopses of extramural research grants awarded through NIMH regular and small grant program.

Developing proposals for contracts for technical writing and research in the mental health field.

Preparing evaluations of NIAAA grant awards.

Abstracting articles for Psychological Abstracts.

Technomics, Incorporated 1975-1976

Preparing proposals for contracts for research in the medical health field and developing methods for statistical analysis

of ongoing research.

Preparing critiques of published research.

Iroquois Research Institute 1974-1978

Developing sampling methodology for safety projects. Invention of new binomial techniques for establishing sample

sizes in research. Preparation of statistical portions of reports to Federal agencies.

American College of Surgeons

Preparing critiques of published research

Fairfax County Public Schools

Developing and evaluating minority education projects and projects for educating students with mild mental challenges

Devised and conducted minority achievement program for Area 1 schools

Prince William County Public Schools

Developing multivariate statistical evaluation of performance of all county schools.

#### Books

Howe, M.L., & Pasnak, R. (1993). *Emerging Themes in Cognitive Development, Volume I, Foundations*. New York: Springer-Verlag.

Pasnak, R., & Howe, M. L. (1993). *Emerging Themes in Cognitive Development, Volume II, Competencies*. New York: Springer-Verlag.

Pasnak, R. (1988). *Simplified Statistics*. Saratoga, CA: R. & E. Publishers, Inc.

Pasnak, R. (1982). *The Essential Statistical Techniques*. Palo Alto, CA: R. & E. Publishers, Inc.

#### Grants

Focusing on the Efficacy of Teaching Advanced Forms of Patterning on Kindergartners' Improvements in Reading, Mathematics, and Reasoning Ability. Robert Pasnak & Julie K. Kidd 1,621,738.01 Institute of Education Sciences

Focusing on the Efficacy of Teaching Advanced Forms of Patterning on First Graders' Improvements in Reading, Mathematics, and Reasoning Ability. Robert Pasnak & Julie K. Kidd 1,577, 827 Institute of Education Sciences

An Economical Improvement in Literacy and Numeracy Robert Pasnak & J. Kidd. \$684,666 Institute of Education Sciences

Increasing Learning by Promoting Abstract Thought. Robert Pasnak & J. Kidd. \$721,039 Institute of Education Sciences

Instruction of Children with Down Syndrome Through the Use of an Errorless Learning Technique. Helen A. Kellar Institute for Human DisAbilities. \$14,448.

Technology and Instruction. Winsler, A. & Pasnak, R. \$10,757 College of Arts and Sciences, GMU

Technological Enhancements in Teaching. Winsler, A. & Pasnak, R. \$29, 840 College of Arts and Sciences, GMU

Simulation of Task Difficulties. Allen, J., Buffardi, L. Tyer, Z., Pasnak, R. & Mandes, E. \$164, 332 Army Research Institute

#### Contracts

Analysis of Adequate Yearly Progress for Maryland Public Schools. Sun Technical Services

A Multivariate Model for Predicting Achievement from Student Characteristics. Prince William County Public Schools

Area 1 Minority Achievement Project Fairfax County Public Schools

Minority Achievement in Early Education. Fairfax County Public Schools.

Special Education Minority Achievement Project Fairfax County Public Schools  
Model Construction and Critique in Survey Research. American College of Surgeons  
Evaluating Self-Reports in Surveys of Professional's Performance Technomics, Inc.  
Models for Surveys and Worst Case Prediction Iroquois Research Institute

Reviewer for National Science Foundation, Canadian Natural Sciences and Engineering  
Research Council, Australian Research Council, Office of Special Education and  
Rehabilitative Services, Institute of Educational Sciences, American Education  
Research Association, American Psychological Association, Society For Research  
in Cognitive Development.

Editorial Board JOP, NAJP, reviewer for JADP, NHSA, JCP, EED, JECP, PMS, ECRQ,  
JER. JMHRII and numerous publishers

Journal Articles:

Shriver, A., Lauderdale, L., Yassa, M., Schroeder, E., Chen, E., Atkins, E., Righi, M., &  
Pasnak, R. (in press). The effects of in-class tutoring of kindergarteners on  
patterning, reading, or mathematics. *Journal of Education and Human  
Development*.

Schmerold, K. L., Bock, A. M., Peterson, M., Leaf, B., Vennergrund, K., & Pasnak, R.  
(2017). The relations between patterning, executive function, and  
mathematics, *The Journal of Psychology*, 151, 207-228,  
doi:10.1080/00223980.2016.1252708

Patterson, A., Bock, A., & Pasnak, R. (2016). Executive function and academic skills in  
first grade: Evidence for a male advantage in patterning. *Journal of Education and  
Human Development*, 4(4), 58-62. doi:10.15640/jehd.v4n4a8Hill

Gadzichowski, K.M., Pasnak, R., & Kapalka, K. (2016). Response to stimulus relations  
by a dog (*Canis lupus familiaris*). *Learning & Behavior*, 43, 1-8.  
doi:10.3758/s13420-016—0215-4

Bock, A., Cartwright, K., Gonzalez, C., O'Brien, S., Robinson, M. F., Schmerold, K.,  
Shriver, A., & Pasnak, R. (2015). The role of cognitive flexibility in pattern  
understanding. *Journal of Education and Human Development*, 4, 19-  
25. doi:10.15640/jehd.v4n1a3

Pasnak, R., Schmerold, K. L., Robinson, M. F., Gadzichowski, K. M., Bock, A. M.,  
O'Brien, S. E., Kidd, J. K., & Gallington, D. A. (2016) Understanding number  
sequences leads to understanding number concepts. *Journal of Educational  
Research*, 109, 640-646. doi: 10:1080/00220671.2015.1020911

Pasnak, R., Kidd, J. K., Gadzichowski, K. M., Gallington, D. A., Schmerold, K. L., &  
West, H. M.. (2015). Abstracting sequences: Reasoning that is a key to academic  
achievement. *Journal of Genetic Psychology*, 176, 171-193

Gadzichowski, K. M., O'Brien, S. E., & Pasnak, R. (2014). Orientation of patterns of  
letters or numbers *Journal of Education and Human Development*, 3, 59-66.

Kidd, J. K., Pasnak, R., Gadzichowski, K. M., Gallington, D. A., McKnight, P. E.,  
Boyer, C. E., & Carlson, A. (2014). Instructing first-grade children on patterning  
improves reading and mathematics. *Early Education and Development*, 25, 134-  
151.

- Gadzichowski, K. M., Pasnak, R., Kidd, J. K. (2013). What's odd about that? Exploring preschoolers' ability to apply the oddity principle to stimuli differing in colour, size, or form. *European Journal of Developmental Psychology, 10*, 739-751.
- Kidd, J. K., Carlson, A. G., Gadzichowski, K. M., Boyer, C. E., Gallington, D. A., & Pasnak, R. (2013). Effects of patterning instruction on the academic achievement of first grade children. *Journal of Research in Childhood Education, 27*, 224-238.
- Kidd, J. K., Curby, T. W., Boyer, C. E., Gadzichowski, K. M., Gallington, D. A., Machado, J. A. & Pasnak, R. P. (2012). Benefits of interventions focused on oddity and seriation, literacy, or numeracy. *Early Education and Development, 23*, 900-918.
- Boyer, C. E., Carlson, A. G., & Pasnak, R. (2011). Object and size awareness in preschool-age children. *Perceptual and Motor Skills, 2011*, 113, 3, 1-14.
- Stewart, K. M., Pasnak, R. (2010) Preschooler's knowledge about the appearance of proper names. *Perceptual and Motor Skills, 111*, 447-457.
- Pasnak, R., Kidd, J. K., Gadzichowski, M. K., Gallington, D. A., Saracina, R. P., & Addison, K. T. (2009) Promoting early abstraction to promote early literacy and numeracy. *Journal of Applied Developmental Psychology, 30*, 239-249.
- Romero, S., Perez, K., Pasnak, R., & Lehman, E. (2009) Selection of friends in an ethnically diverse preschool, *NHSA Dialog: A Research-To-Practice Journal, 12*, 293-306..
- Pasnak, R., Perez, K. & Romero, S. (2009). Encouraging friendships in preschool classrooms. *NHSA Dialog: A Research-To Practice Journal, 12*, 342-346.
- Greene, M. R., Pasnak, R., & Romero, S. (2009). A time lag analysis of temporal relations between motivation, academic achievement, and two cognitive abilities. *Early Education and Development, 20*, 799-825
- Pasnak, R., Kidd, J. K., Gadzichowski, M. K., Gallington, D. A., Saracina, R. P., & Addison, K. (2008). Can emphasizing cognitive development improve academic achievement? *Educational Research. 50*, 261-276.
- Kidd, J. K., Pasnak, R., Gadzichowski, M., Ferral-Like, M., and Gallington, D. (2008). Enhancing kindergartners' mathematics achievement by promoting early abstract thought. *Journal of Advanced Academics, 19*, 164-200.
- Pasnak, R., Maccubbin, E., & Ferral-Like, M. (2007) Using developmental principles to assist at-risk preschoolers in developing numeracy and phonemic awareness. *Perceptual and Motor Skills, 105*, 163-176.
- Pasnak, R.; Kidd, J. Gadzichowski, M., Ferral-Like, M., Gallington, D., & Saracina, R. (2007). Nurturing developmental processes. *Journal of Developmental Processes, 2*, 90-115.
- Pasnak, R., Cooke, W., & Hendricks, C. (2006). Enhancing academics by strengthening class inclusion reasoning. *Journal of Psychology. 140*, 603 – 613.
- Hendricks, C., Trueblood, L., & Pasnak, R. (2006). Effects of teaching patterning to first graders. *Journal of Research on Childhood Education, 21*, 77 – 87.
- Pasnak, R., Greene, M. S., Ferguson, E. O., & Levit, K. (2006). Applying principles of development to help at-risk preschoolers develop numeracy. *Journal of Psychology, 140*, 155-173.

- Campbell, J. L., Gadzichowski, M., & Pasnak, R. (2004). Mastery of number conservation by a man with severe cognitive disabilities. *Perceptual and Motor Skills*, 98, 1283-1284.
- Pasnak, R., Maccubbin, E. M., Campbell, J. L., & Gadzichowski, M. (2004) Learning set instruction in seriation and the oddity principle for a man with severe mental disabilities. *Education and Training in Developmental Disabilities*, 39, 337-345.
- Malabonga, V. A., & Pasnak, R. (2003). Hierarchical categorization by bilingual Latino children: Is there a basic level bias? *Genetic, Social, and General Psychology Monographs*, 128, 409-441.
- Ciancio, D., Rojas, A. C., McMahon, K., & Pasnak, R. (2001). Teaching oddity and insertion to Head Start children: An economical cognitive intervention. *Journal of Applied Developmental Psychology*, 22, 603-621.
- Ciancio, D., Sadovsky, A., Malabonga, V., Trueblood, L., & Pasnak, R. (1999). Teaching classification and seriation to preschoolers. *Child Study Journal*, 29, 193-205.
- Hendricks, C., Trueblood, L., Willson-Quayle, A., Malabonga, V., Ciancio, D., & Pasnak, R. (1999). Effects of instruction in sequencing and class inclusion for first graders. *Genetic, Social, and General Psychology Monographs*, 125, 297-312.
- Garrett, K., & Pasnak, R. (1999). Cognitive gains through extended play at classification and seriation. *Journal of Research and Development in Education*, 32, 237-264.
- Pasnak, R., Willson-Quayle, A., & Whitten, J. W. (1998). Mild retardation, academic achievement, and Piagetian or psychometric tests of reasoning. *Journal of Developmental and Physical Disabilities*, 10, 23-33.
- Willson-Quayle, A., & Pasnak, R. (1997). The training of class inclusion and language skills in young Latino children. *Journal of Research in Childhood Education*, 11, 152-162.
- Southard, M. & Pasnak, R. (1997). Effects of maturation on preoperational seriation. *Child Study Journal*, 27, 255-268.
- Pasnak, R., Madden, S., Malabonga, V., Martin, J., & Holt, R. (1996). Persistence of gains from instruction in classification, seriation, and conservation. *Journal of Educational Research*, 90, 87-92.
- Pasnak, R., Hansbarger, A., Dodson, S., Hart, J., & Blaha, J. (1996). Differential results of instruction at the preoperational - concrete operational transition. *Psychology in the Schools*, 33, 70-83.
- Malabonga, V., Pasnak, R., Hendricks, C., Southard, M. & Lacy, S. (1995). Cognitive gains for kindergartners instructed in seriation and classification. *Child Study Journal*, 25, 79-96.
- Pasnak, R., Whitten, J. C., Perry, P., Waiss, S., Madden, S. E., & Watson-White, S. A. (1995). Achievement gains after instruction on classification and seriation. *Education and Training in Mental Retardation and Developmental Disabilities*, 30, 109-117.
- Malabonga, V., Pasnak, R., & Hendricks, C. (1994). Generalization effects from instruction of kindergartners on classification and seriation. *Perceptual and Motor Skills*, 79, 545-546.
- Waiss, S., & Pasnak, R. (1993). Instruction of young children on number conservation and unidimensional classification. *Bulletin of the Psychonomic Society*, 31, 205-208.

- Beyer, B. K., & Pasnak, R. (1993). Helping children think better: The developmental lesson set approach. *Journal of Research and Development in Education*, 26, 97-105.
- Perry, P., Pasnak, R., & Holt, R. (1992). Instruction on concrete operations for children who are mildly mentally retarded. *Education and Training in Mental Retardation*, 27, 273-281.
- Pasnak, R., McCutcheon, L., Holt, R., & Campbell, J. W. (1991). Cognitive and achievement gains for kindergartners instructed on Piagetian operations. *Journal of Educational Research*, 85, 5-13.
- Pasnak, R., & Campbell, J. (1991). Short and long term follow-up results for cognitive interventions. *Bulletin of the Psychonomic Society*, 29, 307-310.
- Waiss, S. & Pasnak, R. (1991). Instruction of young children on number conservation and unidimensional classification. *Bulletin of the Psychonomic Society*, 31, 205-208.
- McCormick, P., Campbell, J., Pasnak, R., & Perry, P. (1990). Instruction on Piagetian concepts for 8- to 13-year-old children who are mildly mentally retarded. *Mental Retardation*, 28, 359-366.
- Pasnak, R., Campbell, J., Perry, P., & McCormick, P. (1989). Piacceleration instruction for children who are mentally retarded. *Education and Training in Mental Retardation*, 24, 352-362.
- Pasnak, R., Denham, S., & Groff, R. (1989). Accelerating cognitive development of kindergartners: One year later. *Child Study Journal*, 18, 249-263.
- Pasnak, R. (1989). Teaching basic cognitive operations to at risk children. *International Human Intelligence Newsletter*, 10, 4-7.
- Campbell, J. W., McCutcheon, L., Perry, P., & Pasnak, R. (1988). A preliminary test of Piacceleration instruction on the cognitive development of mildly retarded children. *Journal of Social Behavior and Personality*, 3, 225-230.
- Pasnak, R., Kurkjian, M., & Triana, E. (1988). Assessment of stage 6 object permanence. *Bulletin of the Psychonomic Society*, 26, 368-370.
- Pasnak, R. (1987). Acceleration of cognitive development of kindergartners. *Psychology in the Schools*, 24, 358-363.
- Pasnak, C., & Pasnak, R. (1987). Accelerated development of object permanence in Down's syndrome children. *Child: Care, Health and Development*, 13, 247-255.
- Pasnak, R., Brown, K., Kurkjian, M., Mattran, K., Triana, E., & Yamamoto, N. (1987). Cognitive gains through training on classification, seriation, and conservation. *Genetic, Social, and General Psychology Monographs*, 113, 295-321.
- Triana, E., & Pasnak, R. (1985). A distraction task as an index of object permanence. *Infant Behavior & Development*, 9, 151-165.
- Triana, E., & Pasnak, R. (1981). Object permanence in cats and dogs. *Animal Learning and Behavior*, 9, 135-139.
- Pasnak, R. (1979). Prerequisites to substance conservation in macaques. *Journal of Experimental Psychology*, 5, 194-210.
- Singer, F., Pasnak, R., Drasch, P., & Baer, W. (1978). Rapid reduction of lengthy pausing during vocal responding by retarded children. *Behavior Therapy*, 9, 669-670.



- Lebron-Rodriguez, D. & Pasnak, R. (1977). Improvement of seriation and IQ scores in blind children. *Journal of Experimental Child Psychology*, 24, 505-515.
- Lopata, D. & Pasnak, R. (1976). Induction of conservation and IQ gains by blind children. *Genetic Psychology Monographs*, 93, 3-25.
- Friedman, J. & Pasnak, R. (1973). Accelerated acquisition of classification skills by blind children. *Developmental Psychology*, 9, 333-337.
- Friedman, J., Pasnak, R. (1973). Attainment of classification and seriation concepts by blind and sighted subjects. *Education of the Visually Handicapped*, 5, 55-62.

### **Perceptual Learning and Development**

- Tyer, Z.E. & Pasnak, R. (1989). Local contour characteristics as determinants of pattern discrimination. *Perceptual and Motor Skills*, 69, 691-700.
- Mitchell, S., Pasnak, R., & Campbell, J. (1989). Information content and the identification of human faces. *Bulletin of the Psychonomic Society*, 27, 371-374.
- Pasnak, R. & Tyer, Z. (1986). Complex local features of visual patterns. *Bulletin of the Psychonomic Society*, 24, 41-43.
- Pasnak, R. & Tyer, Z. (1985). Distinctive local features of visual patterns. *Bulletin of the Psychonomic Society*, 23, 113-115.
- Pasnak, R., Tyer, Z., & Allen, J. (1985). Effect of distance instructions on size judgements. *American Journal of Psychology*, 98, 297-304.
- Rix, R., Tyer, Z., & Pasnak, R. (1983). Stimulus size and visual angle in a cue-reduced experimental setting. *Bulletin of the Psychonomic Society*, 21, 29-30.
- Tyer, Z., Allen, J., & Pasnak, R. (1983). Instruction effects on size and distance judgements. *Perception & Psychophysics*, 34, 135-139.
- Fitzpatrick, V., Pasnak, R., & Tyer, Z. (1982). The effect of familiar size at familiar distances. *Perception*, 11, 85-91.
- Singer, F., Tyer, Z., & Pasnak, R. (1982). Assumed distance as a determinant of apparent size. *Bulletin of the Psychonomic Society*, 19, 267-268.
- Seman, W., Pasnak, R., & Tyer, Z. (1976). Discriminability and identifiability of the human hand based on its judged complexity. *Perceptual and Motor Skills*, 42, 287-293.
- Slomin, V. & Pasnak, R. (1972). Effects of visual deprivation on depth

perception. *Vision Research*, 12, 623-626.

Pasnak, R. (1971). Pattern complexity and response to distinctive features. *American Journal of Psychology*, 84, 235-245.

Gregg, C. L. & Pasnak, R. (1971). Effects of instructions and training on shape constancy. *Perceptual and Motor Skills*, 32, 485-486.

Pasnak, R. (1971). Brightness contrast and brightness constancy. *Perception and Psychophysics*, 10, 150-152.

Jones, G. & Pasnak, R. (1970). Light deprivation and visual cliff performance. *Psychonomic Science*, 21, 278-279.

Pasnak, R. & Ahr, P. (1970). Tactual Poggendorff illusion in blind and blindfolded subjects. *Perceptual and Motor Skills*, 31, 151-154.

Freeman, R.B. & Pasnak, R. (1969). Perspective determinants of the rotating trapezoid illusion. *Journal of Experimental Psychology*, 76, 94-101.

#### Other

Pasnak, R. & Kurtz, S. (1987). Brightness and size transposition by rhesus monkeys. *Bulletin of the Psychonomic Society*, 25, 109-112.

Harmon, K., Strong, R., & Pasnak, R. (1982). Relational responses in tests of transposition with rhesus monkeys. *Learning and Motivation*, 13, 495-504.

Pasnak, R. (1971). Inanition and the motivation-performance function for the rat. *Learning and Motivation*, 2, 195-201.

#### Recent Conference Presentations:

Gagliano, K., Thompson, B., Righi, M., Yassa, M., Pierceall, B., Ismail, M., & Pasnak, R. (2017, May) *Growing and symmetric patterns of letters, numbers, and time*. Poster presented at the annual meeting of the American Psychological Society, Boston, MA.

Righi, M., Pierceall, B., Ismail, M., Yassa, M., Gagliano, K., & Pasnak, R. (2017, May). *Kindergartners' recognition of patterns*. Poster presented at the annual meeting of the American Psychological Society, Boston, MA.

Shriver, A.S., Lauderdale, L., Yassa, M., Singer, J., Chen, E., Righi, M., & Pasnak, R. (2017, April). *The effects of tutoring on kindergartener's literacy*. Poster presented at the Annual Convention of the Society for Research in Child Development, Austin, TX.

- Pasnak, R., Mohtasham, M., Patterson, A. B., Vennergrund, K., & Chen, E. (2017, March). *Links between cognition and emotions*. Paper presented at the 88th annual meeting of the Eastern Psychological Association. New York, NY
- Patterson, A., Bock, A., Mohtasham, M., & Pasnak, R. (2016, April). *Sex differences in first graders' patterning and executive function skills*. Poster presented at the National Research and Development Center on Cognition and Mathematics Instruction Conference, Arlington, VA.
- Pasnak, R., Schmerold, K. L., Bock, A. M., Leaf, B., & Vennergrund, K. (2016, March). *The relations between patterning, executive function, and mathematics*. Paper presented at the 87th annual meeting of the Eastern Psychological Association. New York, NY
- Patterson, A., Bock, A. M., & Pasnak, R. (2016) *Cognitive abilities in first grade: Evidence for male's early advantage in patterning*. Poster presented at the 87<sup>th</sup> annual meeting of the Eastern Psychological Association. New York, NY
- Pasnak, R. (2015) *The place of patterning in cognitive development*, Paper presented at 8<sup>th</sup> International Conference on Education, Research, and Innovation. Seville, Spain
- Pasnak, R., Kidd, J. K. Gadzichowski, K. M., Gallington, D. Schmerold, K. L., & West, H. (2015) *Empirical evidence that teaching children patterning improves reading and mathematics*. Paper presented at the 8th International Conference on Education, Research, and Innovation. Seville, Spain
- Schmerold, K., Patterson, A., Montasham, M., Vennergrund, K., & Pasnak, R. (2015) *Patterning in first grade relates to executive function and mathematics skills*. Poster presented at the annual meeting of the Society for the Study of Human Development, Austin, TX.
- Pasnak, R. Gadzichowski, K. M., Bock, A. M. O'Brien, S. E., Fetterer-Robinson, M. , & Schmerold, K. L. (2015, March). *The place of "patterning" in cognitive development*. Paper presented at the annual meeting of the Eastern Psychological Association, Philadelphia, PA.
- Bock, A., Patterson, A., Shriver, A., Leaf, B., Mohtasham, M., Vennergrund, K., & Pasnak, R. (2015, May). *First graders' executive function: The cognition underlying linear patterning and reading*. Poster presented at American Psychological Society, New York, NY.
- Bock, A., Cartwright, K., Gonzalez, C., Schmerold, K., O'Brien, S., Robinson, M., & Pasnak, R. (2015, March). *First graders' patterning relates to cognitive flexibility and reading ability*. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Bock, A., Cartwright, K., Gonzalez, C., O'Brien, S., Robinson, M., Schmerold, K., Shriver, A., & Pasnak, R. (2015, March). *The relation between cognitive flexibility and patterning*. Paper presented at Eastern Psychological Association, Philadelphia, PA.
- Fetterer, M. A., Pasnak, R., Gadzichowski, K. M., Kidd, J. K., Gallington, D. A., Schmerold, K. L., & Bock, A. M. (2014). *Understanding patterns and achievement*. Poster presented at the conference of the International Organization of social Sciences and Behavioral Research: Atlantic City, NJ.

- Pasnak, R., Gadzichowski, K. M., Kidd, J. K., O'Brien, S. E. & Gallington, D. A. (2014) *Patterns of numbers and the development of mathematics concepts*. Paper presented at the meeting of the Eastern Psychological Society: Boston, MA
- Pasnak, R., Kidd, J. K., Gadzichowski, K. M., Gallington, D. A., Lopez, C., & Schmerold, K. L. (2013). Improving academic achievement by helping children understand patterns. Paper presented at the meeting of the Eastern Psychological Association: New York, NY.
- Gadzichowski, K. M., O'Brien, S. E., Kidd, J. K., Gallington, D. A., & Pasnak, R. (2013, May). *Effects of orientation on children's recognition of letter and number sequences*. Poster session presented at the meeting of the American Psychological Society, Washington, DC.
- Gadzichowski, K.M., O'Brien, S. E., Kidd, J.K. , Gallington, D. A. & Pasnak, R. (2013) Children's Understanding of Patterns of Letter and Numbers. Paper presented at the annual meeting of the Eastern Psychological Association: New York, NY.
- Schmerold, K. L., Pasnak, R., Gadzichowski, K. M., Gallington, D. A. & Kidd, J. K. (2012) Three Year Follow-up for an Effective Cognitive Intervention. Paper presented at the conference of the International Organization for Social Sciences and Behavior Research, Las Vegas, NV.
- Kidd, J. K., Pasnak, R., Gadzichowski, K. M., Gallington, D. A & Schmerold, K. L. (2012) Effects on Academic Achievement from Instruction on Patterning. Paper presented at the conference of the International Organization for Social Sciences and Behavior Research, Las Vegas, NV.
- Gadzichowski, K.M., Kapalka, K., & Pasnak, R. (2012) Oddity in Dogs. Paper presented at the annual meeting of the Eastern Psychological Association, Pittsburgh, PA.
- Gadzichowski, K.M., Kapalka, K., & Pasnak, R. (2012) Do Domestic Dogs Understand the Oddity Principle? Poster presented at the annual conference of the Association for Psychological Science, Chicago, IL
- Boyer, C. E., Kidd, J. K., Gadzichowski, K. M., Gallington, D. A., & Pasnak, R. (2011) Understanding Patterns as a Determinant of Mathematics Achievement. Poster presented at the annual conference of the Association for Psychological Science, Washington D. C.
- Pasnak, R., Gadzichowski, M., Kidd, J. K., Boyer, C. E., Carlson, A. (2011) Patterning Abilities in First Grade Children, Paper presented at the annual meeting of the Eastern Psychological Association, Boston, MA.
- Boyer, C.E., Sweeting, A., Pasnak, R., & Kidd, J. (2010). How Predictable are Sequences of Time, Rotation, Letters and Numbers? Poster presented at the annual convention of the Association for Psychological Science, Boston, MA.
- Kidd, J. K. Gadzichowski, K. M., Gallington, D. A., Machado, J. A. Boyer, C. E., & Pasnak, R. (2010). Analyzing Sequences. Poster presented at the annual convention of the Association for Psychological Science, Boston, MA.
- Kidd, J. K., Pasnak, R. ,Gadzichowski, K. M., Gallington, D. A., Machado, J. A. & Boyer, C. E. (2010). Poster presented at the annual meeting of the American Education for educational Research, Denver, CO..
- Kidd, J., Pasnak, R., Curby, T. W., Boyer C. E., Gadzichowski, K. M., Gallington, D. A., & Machado, J. (2010) Cognitive Underpinnings of Preschool Literacy and

- Numeracy. Paper presented at the annual conference of the Society for Research on Educational Effectiveness, Washington D. C.
- Kidd, J., Pasnak, R., Gadzichowski, K. M., Gallington, D. & Boyer-Ferhat, C. (2010). Prerequisites to Understanding Letters and Numbers. Poster presented at the annual conference of the Institute of Education Sciences annual conference, Washington, DC.
- Gadzichowski, M. K., Kidd, J. K. Pasnak, R., & Boyer, C. (2010) Children's Understanding of Series Rules. Poster presented at the annual convention of the Association for Psychological Science, Boston, MA
- Kidd, J., Pasnak, R., Gadzichowski, K. M., Gallington, D. , Machado, J. & Boyer, C. E. (2010). Enhancing Children's Cognitive Abilities to Increase Their Numeracy and Literacy Achievement. Poster presented at the annual meeting of the American Educational Research Association.
- Kidd, J., Pasnak, R., Gadzichowski, K. M., Gallington, D., Boyer, C. & Carlson, A. (2010). Literacy and Numeracy Gains from Teaching by Play. Head Start's 10<sup>th</sup> National Research Conference, Washington DC
- Boyer, C.E., Aiken, D., & Stewart, B., Pasnak, R. (2009, August). Preschoolers' Continued Development of Self and Other Awareness. Poster presented at the annual convention of the American Psychological Association, Toronto, Canada.
- Kidd, J., Pasnak, R., Gadzichowski, K. M., Gallington, D. & Machado, J. (2009) Prerequisites to Understanding Letters and Numbers. Poster presented at the Institute of Education Sciences annual conference, Washington, DC.
- Gadzichowski, K. M. & Pasnak, R. (2009). How Odd Is That? Poster presented at the annual meeting of Eastern Psychological Association. Pittsburgh: PA.
- Kidd, J., Pasnak, R., Gadzichowski, K. M., Gallington, D. & Machado, J. (2009) Exploring the Relationship Between Early Abstract Abilities and Numeracy in Preschoolers. Poster presented at the annual meeting of the American Educational Research Association. San Diego: CA.
- Pasnak, R., Kidd, J., Gadzichowski, K. M., Gallington, D. & Machado, J. (2009) Teaching Oddity and Predicting Numeracy. Poster presented at the annual meeting of the Association for Psychological Science. San Francisco: CA.
- Kidd, J. & Pasnak, R. (2008) Development of Cognitive Operations as Predictors of Numeracy. Institute of Educational Science, Washington, DC.
- Gadzichowski, K. M., Kidd, J. & Pasnak, R. (2008) Two Predictors of Early Numeracy. Association for Psychological Science, Chicago, IL.
- Romero, S., Perez, K., Pasnak, R., & Lehman, E..(2008) Selection of Friends by Preschool Children. Conference on Human Development, Indianapolis, IN.
- Perez, K., Romero, S. L., Pasnak, R., & Lehman, E..(2008) Ethnicity, Gender, and Behavior as Determinants of Friendships. Eastern Psychological Association, Boston, MA
- Romero, S., Perez, K., Pasnak, R., & Lehman, E..(2008) Selection of Friends by Preschool Children Head Start National Research Conference, Washington, DC
- Gadzichowski, K. M., Kidd, J., Gallington, D., Saracina, R., Addison, K., & Pasnak, R. (2008) Prediction of Early Literacy from Oddity and Seriation. Eastern Psychological Association, Boston, MA

- Gadzichowski, K. M., Kidd, J., Gallington, D., Saracina, R., Addison, K., & Pasnak, R. (2008) Relations between Culture-free Measures of Thinking Ability and Standardized Test Scores. Conference on Human Development, Indianapolis, IN
- Pasnak, R., Kidd, J., Gadzichowski, K.M., Gallington, D., Saracina, R., & Addison, K. (2007) Promoting Early Abstraction to Promote Early Literacy and Numeracy. Cognitive Development Society, Santa Fe, NM
- Denham, S., Pasnak, R., Saracina, R., Bassett, H., & Gadzichowski, K. M. (2007) Measuring Emotion Processing During Early Childhood: Methods and Meanings. Society for Research in Child Development, Boston, MA
- Pasnak, R., Kidd, J. K., Gadzichowski, K. M., Gallington, D., Saracina, R., & Addison, K. T. (2007) A 3-year Effort to Raise Academic Achievement by Teaching Concepts. Eastern Psychological Association, Philadelphia, PA
- Pasnak, R., Williams, F., Ferral-Like, M., & Gadzichowski, K. M. Using Developmental Principles to Assist Head Start Children. Head Start National Research Conference, Washington, D.C.
- Greene, Monica S. & Pasnak, R. "Why Do Some Children Master Certain Skills While Others Do Not? Head Start National Research Conference, Washington, D.C.
- Kidd, J., Pasnak, R., Gadzichowski, M., Gallington, D., Saracina, R. & Addison, K. (2006). Two years of raising achievement by teaching concepts. Conference on Human Development.
- Kidd, J., Pasnak, R., Gadzichowski, M., Gallington, D., Saracina, R. & Addison, K. (2006). Improving Early Abstract Thought Improves Kindergartner's Academic Achievement. Conference on Human Development.
- Kidd, J., Pasnak, R., Gadzichowski, M., Gallington, D., Saracina, R. & Addison, K. (2006). Improving numeracy and literacy by promoting early abstract thought. Eastern Psychological Association, Boston, MA
- Kidd, J., & Pasnak, R. (2005). Increasing learning by promoting early abstract thought. Invited symposium, American Educational Research Association, Montreal, Canada
- Pasnak, R., Kidd, J., Ferral-Like, M., Gadzichowski, M., Gallington, D., Saracina, R. & Terpenning, C. (2005) Increasing learning by promoting early abstract thought, Society for Research in Child Development, Atlanta, GA.
- Pasnak, R., Kidd, J., Ferral-Like, M., Gadzichowski, M., Gallington, D., Saracina, R. & Terpenning, C. (2005). Improving numeracy by teaching oddity, seriation, and conservation. (Session focus paper) Eastern Psychological Association, Boston, MA
- Campbell, J. L., Gadzichowski, M. L., & Pasnak, R. (2004) Can number conservation be taught to a person with a severe disability? Eastern Psychological Association, Washington, DC.
- Pasnak, R., Maccubbin, E. L., Ferral-Like, M., Williams, F., & Lankford, M. (2004) Improving numeracy and phonemic awareness through guided play. Head Start National Research Conference, Washington, DC
- Campbell, J. L., Gadzichowski, M. L., & Pasnak, R. (2004) Mastery of conservation by a man with severe cognitive disabilities. Conference on Human Development, Washington, DC.

- Pasnak, R., Maccubbin, E., & Ferral, M. (2003) Instruction in oddity and seriation for impoverished preschoolers. Society for Research in Child Development, Tampa, FL.
- Pasnak, R., & Maccubbin, E. (2002). Learning set instruction on seriation for a child with severe mental challenges. (Session chair) Eastern Psychological Association, Boston, MA
- Pasnak, R., Moore, W., & Hendricks, C. (2002) Enhancing academics by strengthening the class inclusion operation. Conference on Human Development. Charlotte, NC
- Pasnak, R., Savage, M., & Ferguson, E. A. (2001) Using developmental principles to assist at-risk preschoolers. Society for Research in Child Development, Minneapolis, MN.
- Pasnak, R., & Moore, W. D. (2001). Mastery of class inclusion and academic achievement. Eastern Psychological Association, Washington, DC.
- Pasnak, R., Savage, M., & Ferguson, E. A. (2000) Accelerating cognitive growth in the last year before kindergarten. American psychological Association, Washington, DC.

20 other journal articles, numerous conference presentations, conference posters, article, book, and grant application reviewing, and related activities.